

HD VIDEO COMMUNICATION SYSTEM

PCS-XG80/XG55

PCS-XA80/XA55

PCS-XL55

External Command Reference

3rd Edition (PCS-XG80/XG55:Ver2.3)
(PCS-XA80/XA55/XL55: All Version)

History

2008/07/31	Preliminary Edition
2008/09/30	<p>Preliminary Edition Revised 1</p> <p>Added:</p> <ul style="list-style-type: none"> list save ip-comm,list save isdn-comm,list save sip-comm list load ip-comm,list load isdn-comm,list load sip-comm <p>Revised: remcom command (code table)</p> <p>Deleted (Under construction): APPENDIX-B Cause Code</p> <p>Revised: APPENDIX-C Time Zone</p> <p>Added: APPENDIX-E Country/region List</p>
2008/10/10	<p>Preliminary Edition Revised 2</p> <p>Correction for code table of remcom commands</p>
2009/2/17	<p>1st Edition</p> <p>Supports Ver2.0</p>
2009/04/01	<p>1st Edition Revised 1</p> <ul style="list-style-type: none"> • Supports Ver2.03 • Corrected: Selective parameter names for setup save mcu command Added: bcmode-voice720p for setup save mcu command • Added: Selective parameters Czech and Hangarian for setup save general command • Added: Typed parameters for setup save general command as follows: <ul style="list-style-type: none"> - Menu Transparency - F1 – F4 Key Assignment In Communication • Corrected: Syntax for camera and far camera commands • Corrected: far camera sub-command (preset) • Added: Return values for setup load general command as follows: <ul style="list-style-type: none"> - Menu Transparency - F1 – F4 Key Assignment In Communication
2009/04/23	<p>1st Edition Revised 2</p> <ul style="list-style-type: none"> • Corrected: Return values for rgb command • Added: The following are added to dial command <ul style="list-style-type: none"> - Selective parameter :LAN Prefix Select - IPCommunication-related parameters:

PCS-XG80/XG55/XA80/XA55/XL55 External Command Reference

	<p>Individual Setting for Transmission/Reception, Individual Setting for P-P/MCU</p> <ul style="list-style-type: none"> • Corrected/Added: Examples
2010/07/29	<p>2nd Edition</p> <ul style="list-style-type: none"> • Supports PCS-XG55 • Supports Ver2.1
2011/07/26	<p>3rd Edition</p> <ul style="list-style-type: none"> • Supports PCS-XA80/XA55/XL55 • Supports PCS-XG80/XG55 Ver2.3 <p>[Corrected] setup save audio, setup save video, setup save admin, setup load audio, setup load video, setup load admin</p> <p>[Added] xdisplay, home_bg_mode</p>

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About This Document

This document is a Command Reference which explains about external control commands for the products listed below.

PCS-XG80/XG55
PCS-XA80/XA55
PCS-XL55

Common Rules for external control commands

A) Command structure

Each command consists of “Command strings” <space> “selective parameter(s)” <space> “typed parameter(s)”.

Order of selective parameters and typed parameters doesn't care.

Some commands don't require any parameters and sometimes parameters can be omitted.

B) Parameters

The “Selective parameter” requires you to select a parameter among a prepared table. And the “Typed parameter” requires you to describe free character strings or numeric values.

C) Syntax for selective parameter (1)

A selective parameter which is put in braces “{ }” shows that only one parameter should be selected. One in square brackets “[]” shows that multiple parameters can be selected.

D) Syntax for selective parameter (2)

When multiple “selective parameters” are entered, each parameter should be separated by <space>. Order of each parameter doesn't care. Unnecessary parameter can be omitted.

E) Syntax for typed parameter (1)

Up to 39 characters can be entered for a typed parameter. The typed parameter should begin and end with a slash “/”.

F) Syntax for typed parameter (2)

When multiple “typed parameters” are entered, each parameter should be separated by a slash “/”. All the commands allow us to omit slashes running from the middle to the end. Described order has a meaning. Order shouldn’t be swapped. If no characters are entered between slashes, a default value or a preset value is applied.

[Example]

Describe typed parameters in predefined order.

```
ext_cmd /input-opt1/ input-opt2/ input-opt3/ input-opt4/
```

When there are four typed parameters and you change two from the beginning, you can omit to describe the third and later parameters.

```
ext_cmd /input-opt1/ input-opt2/
```

G) Syntax for typed parameter (3)

When specifying ! as typed parameter, a default value or a preset value is applied.

[Example]

When specifying the default values for second and forth typed parameters.

```
ext_cmd !! input-opt2/ !! input-opt4/
```

H) Execution

A command is executed followed by [CR] (carriage return) and [LF] (line feed) codes. A user can simply press an “Enter” key at the end of the command strings.

I) Maximum length

Up to 2048 characters can be typed for a command string.

J) Return value

System responds to each command with character strings specified in “return value”. Unless otherwise noted, system returns with a general response.

<General responses>

Command completed : “ok”

Syntax error :” error syntax”

Status error : “error status”

K) IP address format

IP address format differs between IPv4 and IPv6

IPv4 format = ddd.ddd.ddd.ddd

d shows a decimal number.

ddd ranges from 0 to 255.

IPv6 format = hhhh: hhhh: hhhh: hhhh: hhhh: hhhh: hhhh

h shows a hexadecimal number.

hhhh ranges from 0 to ffff.

Continuous zeros (0) can be omitted by separating with double colons (::).

(E.g.) 1:2::6:7:8 can be substituted with 1:2:0:0:6:7:8.

L) Camera control commands

For camera control, this command references are not applied. Please refer the camera control section.

Multipoint (MCU) connection-related commands

All multipoint (MCU) connection-related commands are enabled only for endpoints with MCU software installed. The number of sites connectable during a multipoint conference are up to 6 points for PCS-XG80 (SY/J) /XA80 (SY/J) and up to 3 points for PCS-XL55(SY).

Important note in use of PCS-XL55

It is necessary to change the mode for the AUX CONTROL terminal (D-sub, 9-pin) before using the external control commands.

Checking the current status

<Syntax>	startup-prompt
<Return Value>	startup-prompt pcs : Mode to check logs startup-prompt cntr : External control mode

Changing to the external control mode

<Syntax>	startup-prompt cntr
----------	---------------------

Returning to the previous mode to check logs

<Syntax>	startup-prompt pcs
----------	--------------------

setup save line-mode

Description

Configures the Line I/F settings.

Syntax

```
setup save line-mode {ip-on,ip-off} {isdn-on,isdn-off} {sip-on,sip-off}  
  {mainline-ip,mainline-isdn,mainline-sip}{lan2-on,lan2-off}
```

Selective Parameter

IP

ip-on : IP is available.
ip-off : IP is NOT available.

ISDN

isdn-on : ISDN is available.
isdn-off : ISDN is NOT available.

SIP

sip-on : SIP is available.
sip-off : SIP is NOT available.

Primary line interface

mainline-ip : Specifies IP as primary line interface.
mainline-isdn : Specifies ISDN as primary line interface.
mainline-sip : Specifies SIP as primary line interface.

Use LAN2 * For PCS-XG80/XA80

lan2-on : Use the LAN2 connector.
lan2-off : Does not use the LAN2 connector.

Typed Parameter

None

Return Value

setup save complete line-mode

Examples

In case of making IP and ISDN available and specifying IP as primary line interface

```
setup save line-mode ip-on isdn-on sip-off mainline-ip
```

In case of specifying ISDN as primary line interface

```
setup save line-mode mainline-isdn
```

In case of using the LAN2 connector

```
setup save line-mode lan2-on
```


setup save dial

Description

Configures the dial setup settings.

Syntax

```
setup save dial {speech-auto,speech-u,speech-a} {detailset-on,detailset-off}
{username-on,username-off} {prefix-off,prefix-a,prefix-b,prefix-c}
{prefixlan-off,prefixlan-on}
/BRI PREFIX A/BRI PREFIX B/BRI PREFIX C/LAN PREFIX/
```

Selective Parameter

Telephone Mode (Audio compression format used during a voice meeting)

- speech-auto : Selects an appropriate format automatically.
- speech-u : Selects G.711 μ -low.
- speech-a : Selects G.711 A-low.

“More Options Enable” setting

- detailset-on : Enables “More Options Enable.”
- detailset-off : Disables “More Options Enable.”

User Name Input (Whether to register user names in the communication log before communication starts.)

- username-on : Each time dialing takes place, the user name input menu appears.
- username-off : Disables the recording of the user name.

BRI Prefix Select

- prefix-off : Select when you are not using a prefix number.
- prefix-a : Select when you use the prefix set in “BRI PREFIX-A”.
- prefix-b : Select when you use the prefix set in “BRI PREFIX-B”.
- prefix-c : Select when you use the prefix set in “BRI PREFIX-C”.

LAN Prefix Select

- prefixlan-off : Select when you are not using LAN prefix.
- prefixlan-on : Select when you use LAN prefix.

Typed Parameter

- BRI PREFIX A : When prefix-a is selected, entry here is used as the prefix number (up to 30 bytes).

- BRI PREFIX B : When prefix-b is selected, entry here is used as the prefix number (up to 30 bytes).
- BRI PREFIX C : When prefix-c is selected, entry here is used as the prefix number (up to 30 bytes).
- LAN PREFIX : When LAN Prefix is set to On, entry here is used as the prefix number (up to 30 bytes).

Return Value

setup save complete dial

Examples

In case that the following settings are configured

- Telephone mode: Auto
- More Options Enable: Off
- User Name Input: Disables the recording
- Prefix: Prefix-a is used
- LAN Prefix: Used
- BRI-PREFIX A: Set "0" for prefix-a
- LAN PREFIX: Set"192.168." for LAN Prefix

```
setup save dial speech-auto detailset-off username-off prefix-a prefixlan-on  
/0///192.168./
```

In case of setting "More Options Enable" to On

```
setup save dial detailset-on
```

setup save answer

Description

Configures the answer setup settings.

Syntax

```
setup save answer {autoincome-on, autoincome-off} {dialin-on,dialin-off}  
                {mic-on,mic-off} {incomereject-on, incomereject-off}
```

Selective Parameter

Auto Answer

autoincome-on : Answers calls automatically.
autoincome-off : Answers calls manually.

ISDN MSN

dianin-on : Select when you use the Multiple Subscriber Number.
dianin-off : Select when you do not use the Multiple Subscriber
Number.

MIC on Answer

mic-on : Enables transmission of audio when answering a call.
mic-off : Disables transmission of audio when answering a call.

Reject Answer

incomereject-on : Disables the connection of another remote party during
connection.
incomereject-off : Enables the connection of another remote party during
connection.

Typed Parameter

None

Return Value

setup save complete answer

Examples

In case that the following settings are configured

Auto Answer: On

ISDN MSN: On

MIC on Answer: Off

Reject Answer: On

```
setup save answer autoincome-on dialin-on mic-off incomereject-on
```

In case of setting "MIC on Answer" to On

```
setup save answer mic-on
```

setup save mcu

Description

Configures the Multipoint Setup Settings.

Syntax

```
setup save mcu {mcumode-on, mcumode-auto}  
{bcmode-split, bcmode-voice, bcmode-voice720p} {scrnsplit-auto, scrnsplit-6}
```

Selective Parameter

Multipoint Mode

mcumode-on : Enables you to make a multipoint connection at any time.

mcumode-auto : Switches from point-to-point connection to multipoint connection automatically.

Broadcast Mode

bcmode-split : Selects the split mode as the broadcast mode.

bcmode-voice : Selects the voice activate mode as the broadcast mode.

bcmode-voice720p : Selects the voice activate mode (720p) as the broadcast mode.

Split

scrnsplit-auto : The display is automatically split into four or six parts according to the number of connected terminals.

scrnsplit-6 : The display is split into six parts regardless of the number of terminals connected.

Typed Parameter

None

Return Value

setup save complete mcu

Examples

In case that the following settings are configured

Multipoint Mode: Auto

Broadcast Mode: Split

Split: Six-screen

```
setup save mcu mcumode-on bcmode-split scrnsplit-6
```

setup save ip-comm

Description

Configures the communication mode settings (IP communication).

Syntax

```

setup save ip-comm {inccal-sepa-on,inccal-sepa-off}
                    {ppmcu-sepa-on, ppmcu-sepa-off}
                    [pptx-g711,pptx-g728,pptx-g722,pptx-mpeg4audio]
                    [pprx-g711,pprx-g728,pprx-g722,pprx-mpeg4audio]
                    [mcutx-g711,mcutx-g728,mcutx-g722,mcutx-mpeg4audio]
                    [mcurx-g711,mcurx-g728,mcurx-g722,mcurx-mpeg4audio]
                    {pp-fecc-on,pp-fecc-off} {mcu-fecc-on,mcu-fecc-off}
                    {h239-on,h239-off} {h239-rate-1-3,h239-rate-1-2,h239-rate-2-3}
                    {pptx-scrnsz-auto,pptx-qcif,pptx-cif,pptx-4cif,pptx-wcif,pptx-w432p,
                    pptx-w4cif,pptx-hd720}
                    {pprx-scrnsz-auto,pprx-qcif,pprx-cif,pprx-4cif,pprx-wcif,pprx-w432p,
                    pprx-w4cif,pprx-hd720}
                    {mcutx-scrnsz-auto,mcutx-qcif,mcutx-cif,mcutx-4cif,mcutx-wcif,
                    mcutx-w432p,mcutx-w4cif,mcutx-hd720}
                    {mcurx-scrnsz-auto,mcurx-qcif,mcurx-cif,mcurx-4cif,mcurx-wcif,
                    mcurx-w432p,mcurx-w4cif,mcurx-hd720}
                    [pptx-h261,pptx-h263,pptx-h264] [pprx-h261,pprx-h263,pprx-h264]
                    [mcutx-h261,mcutx-h263,mcutx-h264] [mcurx-h261,mcurx-h263,mcurx-h264]
                    {pptx-autofps,pptx-15fps,pptx-30fps,pptx-60fps}
                    {pprx-autofps,pprx-15fps,pprx-30fps,pprx-60fps}
                    /TOTAL BITRATE/TX BITRATE/RX BITRATE/
                    MCU TX BITRATE/MCU RX BITRATE/
    
```

Selective Parameter

Individual Settings for Transmission/Reception

- | | |
|-------------------|--|
| inccal-sepa-on : | Performs transmission and reception settings individually. |
| inccal-sepa-off : | Performs transmission and reception settings commonly. |

Individual Settings for P-P/MCU

- ppmcu-sepa-on : Performs point-to-point and multipoint settings individually.
- ppmcu-sepa-off : Performs point-to-point and multipoint settings commonly.

Audio Mode For Transmission (You can select one or more.)

- pptx-g711 : Selects G.711 for the audio mode for transmission (Mandatory parameter).
- pptx-g728 : Selects G.728 for the audio mode for transmission.
- pptx-g722 : Selects G.722 for the audio mode for transmission.
- pptx-mpeg4audio : Selects MPEG4 AAC for the audio mode for transmission.

Note:

G.711 is always selected.

Audio Mode For Reception (You can select one or more.)

- pprx-g711 : Selects G.711 for the audio mode for reception (Mandatory parameter).
- pprx-g728 : Selects G.728 for the audio mode for reception.
- pprx-g722 : Selects G.722 for the audio mode for reception.
- pprx-mpeg4audio : Selects MPEG4 AAC for the audio mode for reception.

Note:

Available when Individual Settings for Transmission/Reception is set to On.

G.711 is always selected.

Audio Mode For Transmission in Multipoint Connection

(You can select one or more.)

- mcutx-g711 : Selects G.711 for the audio mode for transmission in multipoint connection (Mandatory parameter).
- mcutx-g728 : Selects G.728 for the audio mode for transmission in multipoint connection.
- mcutx-g722 : Selects G.722 for the audio mode for transmission in multipoint connection.
- mcutx-mpeg4audio : Selects MPEG4 AAC for the audio mode for transmission in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

G.711 is always selected.

Audio Mode For Reception in Multipoint Connection

(You can select one or more.)

- mcurx-g711 : Selects G.711 for the audio mode for reception in multipoint connection (Mandatory parameter).
- mcurx-g728 : Selects G.728 for the audio mode for reception in multipoint connection.
- mcurx-g722 : Selects G.722 for the audio mode for reception in multipoint connection.
- mcurx-mpeg4audio : Selects MPEG4 AAC for the audio mode for reception in multipoint connection.

Note:

Available when both Individual Settings for P-P/MCU and Individual Settings for Transmission/Reception are set to On. G.711 is always selected.

Far End Camera Control

- pp-fecc-on : Enables the control of far end cameras.
- pp-fecc-off : Disables the control of far end cameras.

Far End Camera Control in Multipoint Connection

- mcu-fecc-on : Enables the control of far end cameras in multipoint connection.
- mcu-fecc-off : Disables the control of far end cameras in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

H.239 Presentation

- h239-on : Enables the presentation mode based on the H.239 standard.
- h239-off : Disables the presentation mode based on the H.239 standard.

H.239 Ratio

- h239-rate-1-3 : Use 1/3 of the total bandwidth for H.239 presentation data transmissions.
- h239-rate-1-2 : Use 1/2 of the total bandwidth for H.239 presentation data transmissions.
- h239-rate-2-3 : Use 2/3 of the total bandwidth for H.239 presentation data transmissions.

Screen Size To Be Transmitted

- pptx-scrnsz-auto : Automatically determines the screen size to be transmitted.
- pptx-qcif : Selects QCIF for the screen size to be transmitted.
- pptx-cif : Selects CIF for the screen size to be transmitted.
- pptx-4cif : Selects 4CIF for the screen size to be transmitted.
- pptx-wcif : Selects WCIF for the screen size to be transmitted.
- pptx-w432p : Selects W432P for the screen size to be transmitted.
- pptx-w4cif : Selects W4CIF for the screen size to be transmitted.
- pptx-hd720 : Selects 720(HD) for the screen size to be transmitted.

Screen Size To Be Received

- pprx-scrnsz-auto : Automatically determines the screen size to be received.
- pprx-qcif : Selects QCIF for the screen size to be received.
- pprx-cif : Selects CIF for the screen size to be received.
- pprx-4cif : Selects 4CIF for the screen size to be received.
- pprx-wcif : Selects WCIF for the screen size to be received.
- pprx-w432p : Selects W432P for the screen size to be received.
- pprx-w4cif : Selects W4CIF for the screen size to be received.
- pprx-hd720 : Selects 720(HD) for the screen size to be received.

Note:

Available when Individual Settings for Transmission/Reception is set to On.

Screen Size To Be Transmitted in Multipoint Connection

- mcutx-scrnsz-auto : Automatically determines the screen size to be transmitted in multipoint connection.
- mcutx-qcif : Selects QCIF for the screen size to be transmitted in multipoint connection.
- mcutx-cif : Selects CIF for the screen size to be transmitted in multipoint connection.
- mcutx-4cif : Selects 4CIF for the screen size to be transmitted in multipoint connection.
- mcutx-wcif : Selects WCIF for the screen size to be transmitted in multipoint connection.
- mcutx-w432p : Selects W432P for the screen size to be transmitted in multipoint connection.

- mcutx-w4cif : Selects W4CIF for the screen size to be transmitted in multipoint connection.
- mcutx-hd720 : Selects 720(HD) for the screen size to be transmitted in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

Screen Size To Be Received in Multipoint Connection

- mcurx-scrnsz-auto : Automatically determines the screen size to be received in multipoint connection.
- mcurx-qcif : Selects QCIF for the screen size to be received in multipoint connection.
- mcurx-cif : Selects CIF for the screen size to be received in multipoint connection.
- mcurx-4cif : Selects 4CIF for the screen size to be received in multipoint connection.
- mcurx-wcif : Selects WCIF for the screen size to be received in multipoint connection.
- mcurx-w432p : Selects W432P for the screen size to be received in multipoint connection.
- mcurx-w4cif : Selects W4CIF for the screen size to be received in multipoint connection.
- mcurx-hd720 : Selects 720(HD) for the screen size to be received in multipoint connection.

Note:

Available when both Individual Settings for P-P/MCU and Individual Setting for Transmission/Reception are set to On.

Video Mode For Transmission (You can select one or more.)

- pptx-h261 : Selects H.261 for the compression format of pictures to be transmitted (Mandatory parameter).
- pptx-h263 : Selects H.263 for the compression format of pictures to be transmitted.
- pptx-h264 : Selects H.264 for the compression format of pictures to be transmitted.

Note:

H.261 is always selected.

Video Mode For Reception (You can select one or more.)

- pprx-h261 : Selects H.261 for the compression format of pictures to be received (Mandatory parameter).
- pprx-h263 : Selects H.263 for the compression format of pictures to be received.
- pprx-h264 : Selects H.264 for the compression format of pictures to be received.

Note:

Available when Individual Settings for Transmission/Reception is set to On.
H.261 is always selected.

Video Mode For Transmission in Multipoint Connection

(You can select one or more.)

- mcutx-h261 : Selects H.261 for the compression format of pictures to be transmitted in multipoint connection (Mandatory parameter).
- mcutx-h263 : Selects H.263 for the compression format of pictures to be transmitted in multipoint connection.
- mcutx-h264 : Selects H.264 for the compression format of pictures to be transmitted in multipoint connection.

Note:

Available when Individual Settings for Transmission/Reception is set to On.
H.261 is always selected.

Video Mode For Reception in Multipoint Connection

(You can select one or more.)

- mcurx-h261 : Selects H.261 for the compression format of pictures to be received in multipoint connection (Mandatory parameter).
- mcurx-h263 : Selects H.263 for the compression format of pictures to be received in multipoint connection.
- mcurx-h264 : Selects H.264 for the compression format of pictures to be received in multipoint connection.

Note:

Available when both Individual Settings for P-P/MCU and Individual Settings for Transmission/Reception are set to On.
H.261 is always selected.

Video Frame During Transmission

- pptx-autofps : Automatically determines the number of video frames during transmission.
- pptx-15fps : Selects 15fps for the number of video frames during transmission.
- pptx-30fps : Selects 30fps for the number of video frames during transmission.
- pptx-60fps : Selects 60fps for the number of video frames during transmission.

Video Frame During Reception

- pprx-autofps : Automatically determines the number of video frames during reception.
- pprx-15fps : Selects 15fps for the number of video frames during reception.
- pprx-30fps : Selects 30fps for the number of video frames during reception.
- pprx-60fps : Selects 60fps for the number of video frames during reception.

Note:

Available when Individual Settings for Transmission/Reception is set to On.

Video Frame During Transmission in Multipoint Connection

- mcutx-autofps : Automatically determines the number of video frames during transmission in multipoint connection.
- mcutx-15fps : Selects 15fps for the number of video frames during transmission in multipoint connection.
- mcutx-30fps : Selects 30fps for the number of video frames during transmission.
- mcutx-60fps : Selects 60fps for the number of video frames during transmission in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

Video Frame During Reception in Multipoint Connection

- mcurx-autofps : Automatically determines the number of video frames during reception in multipoint connection.
- mcurx-15fps : Selects 15fps for the number of video frames during reception in multipoint connection.

- mcurx-30fps : Selects 30fps for the number of video frames during reception in multipoint connection.
- mcurx-60fps : Selects 60fps for the number of video frames during reception.

Note:

Available when both Individual Settings for P-P/MCU and Individual Settings for Transmission/Reception are set to On.

Typed Parameter

- TOTAL BITRATE Enter the total bit rate (Unit: kbps, 1 to 10240).
- TX BITRATE : Enter the transmission bit rate
(Unit: kbps, 1 to 10240 for PCS-XG80/XA80, 1 to 4096 for PCS-XG55/XA55/XL55).
- RX BITRATE : Enter the reception bit rate
(Unit: kbps, 1 to 10240 for PCS-XG80/XA80, 1 to 4096 for PCS-XG55/XA55/XL55).
- MCU TX BITRATE : Enter the transmission bit rate in multipoint connection
(Unit: kbps, 16 to 10240 for PCS-XG80/XA80, 16 to 4096 for PCS-XL55).
- MCU RX BITRATE : Enter the reception bit rate in multipoint connection
(Unit: kbps, 16 to 10240 for PCS-XG80/XA80, 16 to 4096 for PCS-XL55).

Return Value

setup save complete ip-comm

Examples

In case of setting Individual Settings for Transmission/Reception to Off and the screen size to 720 (HD).

```
setup save ip-comm inccal-sepa-off pptx-hd720
```

In case of setting Individual Settings for Transmission/Reception to On, Video Frame During Transmission to Auto, and Video Frame During Reception to 30fps.

```
setup save ip-comm inccal-sepa-on pptx-autofps pprx-30fps
```

In case of setting the total bit rate to 8Mbps in multipoint connection.

```
setup save ip-comm /8192/
```

In case of setting Individual Settings for P-P/MCU to On, specifying 6Mbps as bit rate in point-to-point connection, and 2Mbps as bit rate in multipoint connection.

```
setup save ip-comm ppmcu-sepa-on /!/6144!/2048/
```


setup save isdn-comm

Description

Configures the communication mode settings (ISDN communication).

Syntax

```

setup save isdn-comm {ppmcu-sepa-on,ppmcu-sepa-off}
    {pptx-1b,pptx-2b,pptx-3b,pptx-4b, pptx-5b,pptx-6b,pptx-8b,pptx-12b}
    {pprx-1b,pprx-2b,pprx-3b,pprx-4b, pprx-5b,pprx-6b,pprx-8b,pprx-12b}
    {mcutx-1b,mcutx-2b,mcutx-3b,mcutx-4b,mcutx-5b,mcutx-6b,
    mcutx-8b,mcutx-12b}
    {mcurx-1b,mcurx-2b,mcurx-3b,mcurx-4b,mcurx-5b,mcurx-6b,
    mcurx-8b,mcurx-12b}
    [pp-g711,pp-g728,pp-g722,pp-mpeg4audio]
    [mcu-g711,mcu-g728,mcu-g722,mcu-mpeg4audio]
    {pp-fecc-on,pp-fecc-off}
    {mcu-fecc-on,mcu-fecc-off}
    {h239-on,h239-off} {h239-rate-1-3,h239-rate-1-2,h239-rate-2-3}
    {restrict-auto,restrict-56k}
    {pp-scrnsz-auto,pp-cif,pp-4cif,pp-wcif,pp-w432p,pp-w4cif}
    {mcu-scrnsz-auto,mcu-cif,mcu-4cif,mcu-wcif,mcu-w432p,mcu-w4cif }
    [pp-h261,pp-h263,pp-h264]
    [mcu-h261,mcu-h263,mcu-h264]
    {pp-autofps,pp-15fps,pp-30fps,pp-60fps}
    {mcu-autofps,mcu-15fps,mcu-30fps,mcu-60fps}
    
```

Selective Parameter

Individual Settings for P-P/MCU

ppmcu-sepa-on : Performs point-to-point and multipoint connection settings individually.

ppmcu-sepa-off : Performs point-to-point and multipoint connection settings commonly.

ISDN Bandwidth (Dial)

pptx-1b : Selects 1B(64K) for the number of ISDN lines used for dialing.

pptx-2b : Selects 2B(128K) for the number of ISDN lines used for dialing.

pptx-3b : Selects 3B(192K) for the number of ISDN lines used for dialing.

- pptx-4b Selects 4B(256K) for the number of ISDN lines used for dialing.
- pptx-5b : Selects 5B(320K) for the number of ISDN lines used for dialing.
- pptx-6b : Selects 6B(384K) for the number of ISDN lines used for dialing.
- pptx-8b : Selects 8B(512K) for the number of ISDN lines used for dialing.
- pptx-12b : Selects 12B(768K) for the number of ISDN lines used for dialing.

ISDN Bandwidth (Answer)

- pprx-1b : Selects 1B(64K) for the number of ISDN lines used for answering.
- pprx-2b : Selects 2B(128K) for the number of ISDN lines used for answering.
- pprx-3b : Selects 3B(192K) for the number of ISDN lines used for answering.
- pprx-4b Selects 4B(256K) for the number of ISDN lines used for answering.
- pprx-5b : Selects 5B(320K) for the number of ISDN lines used for answering.
- pprx-6b : Selects 6B(384K) for the number of ISDN lines used for answering.
- pprx-8b : Selects 8B(512K) for the number of ISDN lines used for answering.
- pprx-12b : Selects 12B(768K) for the number of ISDN lines used for answering.

ISDN Bandwidth (Dial) in Multipoint Connection

- mcutx-1b : Selects 1B(64K) for the number of ISDN lines used for dialing in multipoint connection.
- mcutx-2b : Selects 2B(128K) for the number of ISDN lines used for dialing in multipoint connection.
- mcutx-3b : Selects 3B(192K) for the number of ISDN lines used for dialing in multipoint connection.
- mcutx-4b Selects 4B(256K) for the number of ISDN lines used for dialing in multipoint connection
- mcutx-5b : Selects 5B(320K) for the number of ISDN lines used for dialing in multipoint connection.
- mcutx-6b : Selects 6B(384K) for the number of ISDN lines used for dialing in multipoint connection.

mcutx-8b : Selects 8B(512K) for the number of ISDN lines used for dialing in multipoint connection.

mcutx-12b : Selects 12B(768K) for the number of ISDN lines used for dialing in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

ISDN Bandwidth (Answer) in Multipoint Connection

mcurx-1b : Selects 1B(64K) for the number of ISDN lines used for answering in multipoint connection.

mcurx-2b : Selects 2B(128K) for the number of ISDN lines used for answering in multipoint connection.

mcurx-3b : Selects 3B(192K) for the number of ISDN lines used for answering in multipoint connection.

mcurx-4b : Selects 4B(256K) for the number of ISDN lines used for answering in multipoint connection.

mcurx-5b : Selects 5B(320K) for the number of ISDN lines used for answering in multipoint connection.

mcurx-6b : Selects 6B(384K) for the number of ISDN lines used for answering in multipoint connection.

mcurx-8b : Selects 8B(512K) for the number of ISDN lines used for answering in multipoint connection.

mcurx-12b : Selects 12B(768K) for the number of ISDN lines used for answering in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

Audio Mode (You can select one or more.)

pp-g711 : Selects G.711 (Mandatory parameter).

pp-g728 : Selects G.728.

pp-g722 : Selects G.722.

pp-mpeg4audio : Selects MPEG4 AAC.

Note:

G.711 is always selected.

Audio Mode in Multipoint Connection

(You can select one or more.)

mcu-g711 : Selects G.711 (Mandatory parameter).

mcu-g728 : Selects G.728.

mcu-g722 : Selects G.722.
mcu-mpeg4audio : Selects MPEG4 AAC.

Note:

G.711 is always selected.

Far End Camera Control

pp-fecc-on : Enables the control of far end cameras.
pp-fecc-off : Disables the control of far end cameras.

Far End Camera Control in Multipoint Connection

mcu-fecc-on : Enables the control of far end cameras in multipoint connection.
mcu-fecc-off : Disables the control of far end cameras in multipoint connection.

H.239 Presentation

h239-on : Enables the presentation mode based on the H.239 standard.
h239-off : Disables the presentation mode based on the H.239 standard.

H.239 Ratio

h239-rate-1-3 : Use 1/3 of the total bandwidth for H.239 presentation data transmissions.
h239-rate-1-2 : Use 1/2 of the total bandwidth for H.239 presentation data transmissions.
h239-rate-2-3 : Use 2/3 of the total bandwidth for H.239 presentation data transmissions.

Restrict

restrict-auto : Automatically determines the ISDN transmission rate.
restrict-56k : Restricts the ISDN transmission rate to 56k.

Screen Size

pp-scrnsz-auto : Automatically determines the screen size.
pp-cif : Selects CIF.
pp-4cif : Selects 4CIF.
pp-wcif : Selects WCIF.
pp-w432p : Selects W432P.
pp-w4cif : Selects W4CIF.

Screen Size in Multipoint Connection

mcu-scrnsz-auto : Automatically determines the screen size in multipoint connection.
mcu-cif : Selects CIF in multipoint connection.

- mcu-4cif : Selects 4CIF in multipoint connection.
- mcu-wcif : Selects WCIF in multipoint connection.
- mcu-w432p : Selects W432P in multipoint connection.
- mcu-w4cif : Selects W4CIF in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

Video Mode (You can select one or more.)

- pp-h261 : Selects H.261 (Mandatory parameter).
- pp-h263 : Selects H.263.
- pp-h264 : Selects H.264.

Note:

H.261 is always selected.

Video Mode in Multipoint Connection

(You can select one or more.)

- mcu-h261 : Selects H.261 in multipoint connection (Mandatory parameter).
- mcu-h263 : Selects H.263 in multipoint connection.
- mcu-h264 : Selects H.264 in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

H.261 is always selected.

Video Frame

- pp-autofps : Automatically determines the number of video frames.
- pp-15fps : Selects 15fps.
- pp-30fps : Selects 30fps.
- pp-60fps : Selects 60fps.

Video Frame in Multipoint Connection

- mcu-autofps : Automatically determines the number of video frames in multipoint connection.
- mcu-15fps : Selects 15fps in multipoint connection.
- mcu-30fps : Selects 30fps in multipoint connection.
- mcu-60fps : Selects 60fps in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

Typed Parameter

None

Return Value

setup save complete isdn-comm

Examples

In case of setting Individual Settings for P-P/MCU to Off, and the screen size to W4CIF.

```
setup save isdn-comm ppmcu-sepa-off pp-w4cif
```

In case of setting Individual Settings for P-P/MCU to On, and setting 4B for the number of ISDN lines used for dialing/answering in point-to-point connection and 2B for dialing/answering in multipoint connection.

```
setup save isdn-comm ppmcu-sepa-on pptx-4b pprx-4b mcutx-2b mcurx-2b
```

setup save sip-comm

Description

Configures the communication mode settings (SIP communication).

Syntax

```
setup save sip-comm [g711,728,g722] {fecc-on,fecc-off}
{scrnsz-auto,qcif,cif,4cif,wcif,w432p,w4cif,hd720}
[h261,h263,h264,mpeg4video] {autofps,15fps,30fps,60fps}
/COMM BITRATE/
```

Selective Parameter

Audio Mode (You can select one or more.)

g711 :	Selects G.711. (Mandatory parameter)
g728 :	Selects G.728.
g722 :	Selects G.722.

Far End Camera Control

fecc-on :	Enables the control of far end cameras.
fecc-off :	Disables the control of far end cameras.

Screen Size

scrnsz-auto :	Automatically determines the screen size.
qcif :	Selects QCIF.
cif :	Selects CIF.
4cif :	Selects 4CIF.
wcif :	Selects WCIF.
w432p :	Selects W432P.
w4cif :	Selects W4CIF.
hd720 :	Selects 720(HD).

Video Mode (You can select one or more.)

h261 :	Selects H.261.
h263 :	Selects H.263.
h264 :	Selects H.264.
mpeg4video	Selects MPEG4.
novideo :	Selects no video. (Other modes are all canceled.)

Video Frame

- autofps : Automatically determines the number of video frames.
- 15fps : Selects 15fps.
- 30fps : Selects 30fps.
- 60fps : Selects 60fps.

Typed Parameter

COMM BITRATE : Enter the communication bit rate (Unit: kbps, 16 to 10240 for PCS-XG80/XA80, 16 to 4096 for PCS-XG55/XA55/XL55)

Return Value

setup save complete sip-comm

Examples

In case that the following settings are configured

- Audio Mode: G.711, G.722
- Far End Camera Control: On
- Screen Size: Auto
- Video Mode: H.264
- Video Frame: Auto
- Communication bit rate: 4096kbps

```
setup save sip-comm g711 g722 fecc-on scrnsz-auto h264 autofps /4096/
```

In case of setting “Far End Camera Control” to Off in SIP communication mode.

```
setup save sip-comm fecc-off
```


setup save audio

Description

Configures the audio settings.

Syntax

```
setup save audio {input-mic,input-aux,input-mix}
    {micseismic-mic,micseismic-ecmic,micseismic-audio1,micseismic-audio2,
    micseismic-camera }
    {micseilaux-audio1,micseilaux-audio2} {ec-on,ec-off} {lipsync-on,lipsync-off}
    {recmute-on,recmute-off}
    {inputmode-stereo,inputmode-mono} {outputmode-stereo,outputmode-mono}
    {auxlocalout-on,auxlocalout-off} {micinv-on,micinv-off}
    {indelay_def, indelay_def_m100ms, indelay_def_m50ms,
    indelay_def_p100ms, indelay_def_p50ms, indelay_userset}
    {outdelay_def, outdelay_def_m100ms, outdelay_def_m50ms,
    outdelay_def_p100ms, outdelay_def_p50ms, outdelay_userset}
    {recoutputmode-stereo,recoutputmode-mono}
    {lenscovermic-on, lenscovermic-off}
    {beepvol-off,beepvol-low,beepvol-middle,beepvol-high}
    {sevol-off,sevol-low,sevol-middle,sevol-high}
    {dialtonevol-off, dialtonevol-low, dialtonevol-middle, dialtonevol-high}
    {ringtonevol-off, ringtonevol-low, ringtonevol-middle, ringtonevol-high}
    /AUX TRIMMING/INPUT DELAY/OUTPUT DELAY/
```

Selective Parameter

Input Select

- input-mic : Inputs audio from the microphone.
- input-aux : Inputs audio from auxiliary external equipment.
- input-mix : Inputs audio from the microphone and auxiliary external equipment.

Input Select (MIC)

- micseismic-mic : XG80/XG55/XA80/XA55: Selects use of the PCS-A1/A3 microphone.
XL55: Selects use of the built-in microphone.
- micseismic-ecmic : XG80/XA80: Selects use of PCSA-A7 echo cancelling

microphone.

* Not available for PCS-XG55/XA55/XL55

micseismic-audio1 : XG80/XA80: Selects to input the audio of external equipment connected to the AUDIO 1 IN.
 XL55: Selects to input the audio of external equipment connected to the AUDIO IN.

* Not available for PCS-XG55/XA55

micseismic-audio2 : XG80/XG55/XA80/XA55: Selects to input the audio of external equipment connected to the AUDIO 2 IN.
 XL55: Selects use of the PCS-A1/A3 microphone.

micseismic-camera : XA80/XA55: Selects use of the built-in microphone.

* Not available for PCS-XG80/XG55/XL55

Input Select (AUX)

micseiaux-audio1 : XG80/XA80: Selects to input the audio of external equipment connected to the AUDIO 1 IN.
 XL55: Selects to input the audio of external equipment connected to the AUDIO IN.

* Not available for PCS-XG55/XA55

micseiaux-audio2 : XG80/XG55/XA80/XA55: Selects to input the audio of external equipment connected to the AUDIO 2 IN.

XL55: Selects use of the PCS-A1/A3 microphone.

Echo Cancellor

ec-on : Enables the internal echo canceller.

ec-off : Disables the internal echo canceller.

Lip Sync

lipsync-on : Enables the Lip Sync function.

lipsync-off : Disables the Lip Sync function.

Recording Mute

recmute-on : Enables the recording mute function.

recmute-off : Disables the recording mute function.

Input Mode

inputmode-stereo : Inputs audio to the audio input jacks as stereo sounds.

inputmode-mono : Inputs audio to the audio input jacks as monaural

	sounds.
Output Mode	
outputmode-stereo :	Outputs audio from the audio output jacks as stereo sounds.
outputmode-mono :	Outputs audio from the audio output jacks as monaural sounds.
AUX Local Monitor Out	
auxlocalout-on :	Outputs the external audio input from the audio output jacks.
auxlocalout-off :	Does not output the external audio input from the audio output jacks.
Reversed MIC Inputs	
micinv-on :	Outputs the audio from the microphone with right and left reversed so that participants at the remote site can match the right and left of the camera image and audio.
micinv-off :	Outputs the audio from the microphone with right and left not reversed.
Audio Input Delay Setting	
indelay_def :	Set the audio input delay to the default value.
indelay_def_m100ms :	Selects the default input delay minus 100ms.
indelay_def_m50ms :	Selects the default input delay minus 50ms.
indelay_def_p100ms :	Selects the default input delay plus 100ms.
indelay_def_p50ms :	Selects the default input delay plus 50ms.
indelay_userset :	Specifies the Audio Input Delay amount you desire.
Audio Output Delay Setting	
outdelay_def :	Set the audio output delay to the default value.
outdelay_def_m100ms :	Selects the default output delay minus 100ms.
outdelay_def_m50ms :	Selects the default output delay minus 50ms.
outdelay_def_p100ms :	Selects the default output delay plus 100ms.
outdelay_def_p50ms :	Selects the default output delay plus 50ms.
outdelay_userset :	Specifies the Audio Output Delay amount you desire.
REC OUT Mode	
recoutputmode-stereo :	The mixed sounds of the remote and local sites are output from the REC OUT R and L jacks in stereo.

recoutputmode-mono : The sounds of the remote and local sites are output from the REC OUT R and L jacks separately.

Lens Cover Mic On/Off Function *For PSC-XA80/XA55/XL55

lenscovermic-on : Enables the lens cover mic on/off function.
Closing the lens cover can turns off the mic, and vice versa.

lenscovermic-off : Disables the lens cover mic on/off function.
Closing/Opening of the lens cover does not affect the mic.

Beep Sound

beepvol-off : Does not output a beep sound.

beepvol-low : Outputs a beep sound at low volume.

beepvol-middle : Outputs a beep sound at medium volume.

beepvol-high : Outputs a beep sound at high volume.

Sound Effect

sevol-off : Does not output sounds when the system starts, connection starts or it ends.

sevol-low : Outputs sounds at low volume when the system starts, connection starts or it ends.

sevol-middle : Outputs sounds at medium volume when the system starts, connection starts or it ends.

sevol-high : Outputs sounds at high volume when the system starts, connection starts or it ends.

Dial Tone

- dialtonevol-off : Does not output a dial tone.
- dialtonevol-low : Outputs a dial tone at low volume.
- dialtonevol-middle : Outputs a dial tone at medium volume.
- dialtonevol-high : Outputs a dial tone at high volume.

Ringer Tone

- ringtonevol-off : Does not output a ringer tone.
- ringtonevol-low : Outputs a ringer tone at low volume.
- ringtonevol-middle : Outputs a ringer tone at medium volume.
- ringtonevol-high : Outputs a ringer tone at high volume.

Typed Parameter

- AUX TRIMMING : Enter the AUX input trimming. (Unit: dB, -20 to 0)
- INPUT DELAY : Enter the audio input delay amount.
(Unit: msec, 0 to 500)
- OUTPUT DELAY : Enter the audio output delay amount.
(Unit: msec, 0 to 500)

Return Value

setup save complete audio

Examples

In case that the following settings are configured

Input Select: Mic
Mic Select: A1/A3
Echo Canceller: On
Lip Sync: Off
Recording Mute: Off
Input Mode: Stereo
Output Mode: Stereo
AUX Local Monitor Out: Off
Reversed MIC Inputs: On
Audio Input Delay Amount: Default
Audio Output Delay Amount: Default
REC OUT Mode: Stereo
Beep Sound: Medium
Sound Effect: Medium
Dial Tone: Off
Ringer Tone: Off

```
setup save audio input-mic micselmic-mic ec-on lipsync-off inputmode-stereo  
outputmode-stereo auxlocalout-off micinv-on indelay_def outdelay_def  
recoutputmode-stereo  
beepvol-middle sevol-middle dialtonevol-off ringtonevol-off
```

In case of disabling the internal echo canceller.

```
setup save audio ec-off
```

In case of setting the audio input delay amount to 80ms.

```
setup save audio indelay_userset /!/80/
```

setup save video

Description

Configures the video settings.

Syntax

```

setup save video
{videoinput-camera, videoinput-rgb, videoinput-ypbpr, videoinput-svideo}
{presen-full,presen-pandp,presen-sidebyside}
{monout-hdmi,monout-rgb,monout-hdmi-rgb}
{rgbmonout-xga,rgbmonout-sxga,rgbmonout-wxga}
{frequency-50hz,frequency-60hz} {audiolink-on,audiolink-off}
{camerainp-mic,camerainp-aux,camerainp-mic-aux}
{cameramic-mic,cameramic-ec-mic,cameramic-audio1,cameramic-audio2,
cameramic-camera}
{cameraaux-audio1,cameraaux-audio2}
{rgbinp-mic, rgbinp-aux, rgbinp-mic-aux}
{rgbmic-mic, rgbmic-ec-mic, rgbmic-audio1, rgbmic-audio2}
{rgbaux-audio1, rgbaux-audio2}
{ypbprinp-mic, ypbprinp-aux, ypbprinp-mic-aux}
{ypbprmic-mic, ypbprmic-ec-mic, ypbprmic-audio1, ypbprmic-audio2}
{ypbpraux-audio1, ypbpraux-audio2}
{svideoinp-mic, svideoinp-aux, svideoinp-mic-aux}
{svideomic-mic, svideomic-ec-mic, svideomic-audio1, svideomic-audio2,
svideomic-camera}
{svideoaux-audio1, svideoaux-audio2}
{blanktime-low, blanktime-middle, blanktime-high}
/CAMERA LABEL/RGB LABEL/YPBPR LABEL/SVIDEO LABEL/
    
```

Selective Parameter

Video Input

videoinput-camera :	Selects the camera picture.
videoinput-rgb :	Selects the video signal from the external equipment connected to RGB IN connector.
videoinput-ypbpr :	Selects the video signal from the external

- equipment connected to VIDEO IN YPbPr connector.
- videoinput-svideo : Selects the video signal from the external equipment connected to S VIDEO IN connector.
* For PCS-XG80/XA80
- Presentation Screen (when sending the picture to PCS-HG90)
 - presen-full : Sends the RGB picture in full screen mode.
 - presen-pandp : Sends the pictures from an external equipment connected to the RGB IN connector and S VIDEO IN connector in PandP mode.
 - presen-sidebyside : Sends the pictures from an external equipment connected to the RGB IN connector and S VIDEO IN connector in Side by Side mode.
- Monitor Output
 - monout-hdmi : Outputs the video signal to an external equipment connected to the HDMI OUT connector.
 - monout-rgb : Outputs the video signal to an external equipment connected to the RGB OUT connector.
 - monout-hdmi-rgb : Outputs the video signal both to external equipment connected to the HDMI OUT and RGB OUT connectors.
- RGB Monitor Output Format
 - rgbmonout-xga : Outputs the XGA signal.
 - rgbmonout-sxga : Outputs the SXGA signal.
 - rgbmonout-wxga : Outputs the WXGA signal.
- Frequency
 - frequency-50hz : Selects the frequency of 50 Hz for video input/output.
 - frequency-60hz : Selects the frequency of 60 Hz for video input/output.
- Link to Audio Input
 - audiolink-on : Links switching of the video input and the audio input.
 - audiolink-off : Switches the video input and the audio input separately.
- Input Select With "Camera" Selected
 - camerainp-mic : Inputs audio from the microphone.
 - camerainp-aux : Inputs audio from an external equipment.

camerainp-mic-aux : Inputs audio both from the microphone and external equipment.

Mic Select (MIC) With “Camera” Selected

cameramic-mic : XG80/XG55/XA80/XA55: Selects to use the PCS-A1/A3 Microphone.

XL55: Selects to use the built-in microphone.

cameramic-ec-mic : XG80/XA80: Selects to use the PCSA-A7 echo canceling microphone.

* Not available for PCS-XG55/XA55/XL55

cameramic-audio1 : XG80/XA80: Selects to input the audio of external equipment connected to the AUDIO 1 IN.

XL55: Selects to input the audio of external equipment connected to the AUDIO IN.

* Not available for PCS-XG55/XA55

cameramic-audio2 : XG80/XG55/XA80/XA55: Selects to input the audio of external equipment connected to the AUDIO 2 IN.

XL55: Selects to use the PCS-A1/A3 Microphone.

cameramic-camera : XA80/XA55: Selects to use the built-in microphone.

*Not available for PCS-XG80/XG55/XL55

Mic Select (AUX) With “Camera” Selected

cameraaux-audio1 : XG80/XA80: Selects to input the audio of external equipment connected to the AUDIO 1 IN.

XL55: Selects to input the audio of external equipment connected to the AUDIO IN.

* Not available for PCS-XG55/XA55

cameraaux-audio2 : XG80/XG55/XA80/XA55: Selects to input the audio of external equipment connected to the AUDIO 2 IN.

XL55: Selects to use the PCS-A1/A3 Microphone.

Input Select With “RGB” Selected

rgbinp-mic : Inputs audio from the microphone.

rgbinp-aux : Inputs audio from an external equipment.

rgbinp-mic-aux : Inputs audio both from the microphone and external equipment.

Mic Select (MIC) With “RGB” Selected

- rgbmic-mic : XG80/XG55/XA80/XA55: Selects to use the PCS-A1/A3 Microphone.
 XL55: Selects to use the built-in microphone.
- rgbmic-ec-mic : XG80/XA80: Selects to use the PCSA-A7 echo canceling microphone.
 * Not available for PCS-XG55/XA55/XL55
- rgbmic-audio1 : XG80/XA80: Selects to input the audio of external equipment connected to the AUDIO 1 IN.
 XL55: Selects to input the audio of external equipment connected to the AUDIO IN.
 * Not available for PCS-XG55/XA55
- rgbmic-audio2 : XG80/XG55/XA80/XA55: Selects to input the audio of external equipment connected to the AUDIO 2 IN.
 XL55: Selects to use the PCS-A1/A3 Microphone.

Mic Select (AUX) With “RGB” Selected

- rgbaux-audio1 : XG80/XA80: Selects to input the audio of external equipment connected to the AUDIO 1 IN.
 XL55: Selects to input the audio of external equipment connected to the AUDIO IN.
 * Not available for PCS-XG55/XA55
- rgbaux-audio2 : XG80/XG55/XA80/XA55: Selects to input the audio of external equipment connected to the AUDIO 2 IN.
 XL55: Selects to use the PCS-A1/A3 Microphone.

Input Select With “YPbPr” Selected

- ybprip-mic : Inputs audio from the microphone.
- ybprip-aux : Inputs audio from an external equipment.
- ybprip-mic-aux : Inputs audio both from the microphone and external equipment.

Mic Select (MIC) With “YPbPr” Selected

- ybpmic-mic : XG80/XG55/XA80/XA55: Selects to use the PCS-A1/A3 Microphone.
 *Not available for PCS-XL55

- ypbprmic-ec-mic : XG80/XA80: Selects to use the PCSA-A7 echo canceling microphone.
 * Not available for PCS-XG55/XA55/XL55
- ypbprmic-audio1 : XG80/XA80: Selects to input the audio of external equipment connected to the AUDIO 1 IN.
 *Not available for PCS-XG55/XA55/XL55
- ypbprmic-audio2 : XG80/XG55/XA80/XA55: Selects to input the audio of external equipment connected to the AUDIO 2 IN.
 *Not available for PCS-XL55
- Mic Select (AUX) With “YPbPr” Selected
- ypbpraux-audio1 : XG80/XA80: Selects to input the audio of external equipment connected to the AUDIO 1 IN.
 *Not available for PCS-XG55/XA55/XL55
- ypbpraux-audio2 : XG80/XG55/XA80/XA55: Selects to input the audio of external equipment connected to the AUDIO 2 IN.
 *Not available for PCS- XL55
- Input Select With “S-Video” Selected * For PCS-XG80/XA80
- svideoinp-mic : Inputs audio from the microphone.
- svideoinp-aux : Inputs audio from an external equipment.
- svideoinp-mic-aux : Inputs audio both from the microphone and external equipment.
- Mic Select (MIC) With “S-Video” Selected * For PCS-XG80/XA80
- svideomic-mic : Selects to use the PCS-A1/A3 Microphone.
- svideomic-ec-mic : Selects to use the PCSA-A7 echo canceling microphone.
- svideomic-audio1 : Selects to input the audio of external equipment connected to the AUDIO 1 IN.
- svideomic-audio2 : Selects to input the audio of external equipment connected to the AUDIO 2 IN.
- svideomic-camera : Selects to use the built-in microphone.
 *For PCS-XA80
- Mic Select (AUX) With “S-Video” Selected * For PCS-XG80/XA80
- svideoaux-audio1 : Selects to input the audio of external equipment connected to the AUDIO 1 IN.

svideoaux-audio2 : Selects to input the audio of external equipment connected to the AUDIO 2 IN.

Blanking Period

blanktime-low : Sets the blanking period to Small.

blanktime-middle : Sets the blanking period to Medium.

blanktime-high : Sets the blanking period to Large.

Typed Parameter

CAMERA LABEL : Enter a name of the video input when “Camera” is selected (up to 12 bytes)

RGB LABEL : Enter a name of the video input when “RGB” is selected (up to 12 bytes)

YPBPR LABEL : Enter a name of the video input when “YPbPr” is selected (up to 12 bytes)

SVIDEO LABEL : Enter a name of the video input when “S-Video” selected(up to 12 bytes) * For PCS-XG80/XA80

Return Value

setup save complete video

Examples

In case that the following settings are configured

Video Input: Camera

Presentation Screen: Full screen

Monitor Output: HDMI+RGB

RGB Monitor Output Format: SXGA

Frequency: 50Hz

Link to Audio Input: On

Input Select With "Camera" Selected: MIC

Mic Select With "Camera" Selected: A1/A3

Input Select With "RGB" Selected: MIC+AUX

Mic Select (MIC) With "RGB" Selected: A1/A3

Mic Select (AUX) With "RGB" Selected: AUDIO 1 IN

Name When "Camera" is Selected: CAM1

Name When "RGB" is Selected: PC1

```
setup save video videoinput-camera presen-fulc monout-hdmi-rgb
  rgbmonout-sxga frequency-50hz audiolink-on
  camerainp-mic cameramic-mic rgbinp-mic-aux rgbmic-mic rgbaux-audio1
  /CAM1/PC1/
```

In case of setting "RGB Monitor Output Format" to WXGA.

```
setup save video rgbmonout-wxga
```

In case of setting a name of video input of YPbPr to "HANDYCAM".

```
setup save video ///HANDYCAM/
```

setup save lan

Description

Configures the settings for IPv4 LAN via LAN1 port.

Syntax

```
setup save lan {dhcp-on,dhcp-off}
               {mode-auto,mode-100f,mode-100h,mode-10f,mode-10h}
               {pppoe-lan1,pppoe-lan2,pppoe-off} {pppoeixedip-on,pppoeixedip-off}
               {pppoedns-on,pppoedns-off} {nat-auto,nat-on,nat-off} } {snmp-on,snmp-off}
               /HOSTNAME/IP ADDR/NETMASK/GW ADDR/DNS ADDR P/DNS ADDR S
               /PPPOE USER/PPPOE PWD/PPPOE FIX ADDR/PPPOE DNS ADDR P/PPPOE
               DNS ADDR S/WAN IP ADDR/SNMP TRAP ADDR/SNMP COMMUNITY/SNMP
               MAC INFO/SNMP MAC PLACE/SNMP ADMIN/
```

Selective Parameter

DHCP Mode

dhcp-on : Enables DHCP.
 dhcp-off : Disables DHCP.

LAN Mode

mode-auto : The interface type and the communication mode are detected automatically.
 mode-100f : Connects via 100BASE-TX in full duplex mode.
 mode-100h : Connects via 100BASE-TX in half duplex mode.
 mode-10f : Connects via 10BASE-T in full duplex mode.
 mode-10h : Connects via 10BASE-T in half duplex mode.

PPPoE

pppoe-lan1 : Uses PPPoE for LAN connection.

pppoe-off : Does not use PPPoE.

Fixed IP for PPPoE

pppoeixedip-on : Uses a fixed IP address for a PPPoE connection.
 pppoeixedip-off : Does not use a fixed IP address for a PPPoE connection.

DNS for a PPPoE Connection

- pppoedns-on : Assigns DNS server addresses automatically.
- pppoedns-off : Allows to specify DNS server addresses manually.

NAT Mode

- nat-on : Enables NAT mode.
- nat-off : Disables NAT mode.

SNMP

- snmp-on : Enables the SNMP agent.
- snmp-off : Disables the SNMP agent.

Typed Parameter

- HOSTNAME : Enter your host name (up to 30 single-byte alphanumeric characters).
- IP ADDR : Enter the IP address.
- NETMASK : Enter the network mask.
- GW ADDR : Enter the default gateway address.
- DNS ADDR P : Enter a primary DNS address.
- DNS ADDR S : Enter a secondary DNS address.
- PPPOE USER : Enter a user name when using PPPoE. (up to 129 bytes)
- PPPOE PWD : Enter a password when using PPPoE. (up to 129 bytes)
- PPPOE FIX ADDR : Fixed IP for PPPoE
- PPPOE DNS ADDR P : Enter a primary DNS address when you use PPPoE.
- PPPOE DNS ADDR S : Enter a secondary DNS address when you use PPPoE.
- WAN IP ADDR : Enter the IP address for WAN when using NAT.
- SNMP TRAP ADDR : Address of Trap Destination SNMP manager
- SNMP COMMUNITY : Community name managed by SNMP manager
- SNMP MAC INFO : Description of SNMP terminal (this info is ignored if entered.)
- SNMP MAC PLACE : Location where SNMP terminal is installed
- SNMP ADMIN : Information about SNMP terminal administrator

Return Value

setup save complete lan ipv4lan1-lan

Examples

In case that the following IPv4 LAN1 settings are configured

DHCP Mode: Off

LAN Mode: Auto

PPPoE: Off

NAT Mode: Off

Host Name: SPIDERMAN

IP Address: 192.168.10.10

Network Mask: 255.255.255.0

Gateway Address: 192.168.10.254

```
setup save lan dhcp-off mode-auto pppoe-off nat-off
/SPIDERMAN/192.168.10.10/255.255.255.0/192.168.10.254/
```


setup save ipv4lan1-lan

Description

Configures the settings for IPv4 LAN1 port.
(same as “setup save lan” mentioned above.)

Syntax

```
setup save ipv4lan1-lan {dhcp-on,dhcp-off}
    {mode-auto,mode-100f,mode-100h,mode-10f,mode-10h}
    {pppoe-lan1,pppoe-lan2,pppoe-off}
    {pppoefixedip-on,pppoefixedip-off} {pppoedns-on,pppoedns-off}
    {nat-on,nat-off} {snmp-on,snmp-off}
    /HOSTNAME/IP ADDR/NETMASK/GW ADDR/DNS ADDR P/DNS ADDR S
    /PPPOE USER/PPPOE PWD/PPPOE FIX ADDR
    /PPPOE DNS ADDR P/PPPOE DNS ADDR S/WAN IP ADDR/
    /SNMP TRAP ADDR/SNMP COMMUNITY/SNMP MAC INFO
    /SNMP MAC PLACE/SNMP ADMIN/
```

Selective Parameter

Note: *-marked options are referred by the IPv4 LAN2 port setting.

DHCP Mode

dhcp-on : Enables DHCP.
dhcp-off : Disables DHCP.

LAN Mode

mode-auto : The interface type and the communication mode are detected automatically.
mode-100f : Connects via 100BASE-TX in full duplex mode.
mode-100h : Connects via 100BASE-TX in half duplex mode.
mode-10f : Connects via 10BASE-T in full duplex mode.
mode-10h : Connects via 10BASE-T in half duplex mode.

PPPoE*

pppoe-lan1 : Uses PPPoE for LAN connection.
pppoe-off : Does not use PPPoE.

Fixed IP for PPPoE*

pppoefixedip-on : Uses a fixed IP address for a PPPoE connection.

- pppoefixedip-off : Does not use a fixed IP address for a PPPoE connection.
- DNS for a PPPoE Connection*
 - pppoedns-on : Assigns DNS server addresses automatically.
 - pppoedns-off : Allows to specify DNS server addresses manually.
- NAT Mode
 - nat-on : Enables NAT mode.
 - nat-off : Disables NAT mode.
- SNMP Mode
 - snmp-on : Enables the SNMP agent.
 - snmp-off : Disables the SNMP agent.

Typed Parameter

Note: *-marked options are referred by the IPv4 LAN2 port setting. * For PCS-XG80/XA80

- HOSTNAME : Enter your host name (up to 30 single-byte alphanumeric characters).
- IP ADDR : Enter the IP address.
- NETMASK : Enter the network mask.
- GW ADDR : Enter the default gateway address.
- DNS ADDR P : Enter a primary DNS address. *
- DNS ADDR S : Enter a secondary DNS address. *
- PPPOE USER : Enter a user name when using PPPoE. (up to 129 bytes) *
- PPPOE PWD : Enter a password when using PPPoE. (up to 129 bytes) *
- PPPOE FIX ADDR : Fixed IP for PPPoE*
- PPPOE DNS ADDR P : Enter a primary DNS address when you use PPPoE.*
- PPPOE DNS ADDR S : Enter a secondary DNS address when you use PPPoE.*
- WAN IP ADDR : Enter the IP address for WAN when using NAT.
- SNMP TRAP ADDR : Address of Trap Destination SNMP manager
- SNMP COMMUNITY : Community name managed by SNMP manager
- SNMP MAC INFO : Description of SNMP terminal (this info is ignored if entered.)
- SNMP MAC PLACE : Location where SNMP terminal is installed

SNMP ADMIN : Information about SNMP terminal administrator

Return Value

setup save complete ipv4lan1-lan

Examples

In case that the following IPv4 LAN1 settings are configured

DHCP Mode: Off

LAN Mode: Auto

PPPoE: Off

NAT Mode: Off

Host Name: SPIDERMAN

IP Address: 192.168.10.10

Network Mask: 255.255.255.0

Gateway Address: 192.168.10.254

```
setup save ipv4lan1-lan dhcp-off mode-auto pppoe-off nat-off
/SPIDERMAN/192.168.10.10/255.255.255.0/192.168.10.254/
```

setup save ipv4lan2-lan (* For PCS-XG80/XA80)

Description

Configures the settings for IPv4 LAN2 port.

Syntax

```
setup save ipv4lan2-lan {dhcp-on,dhcp-off}  
{mode-auto,mode-100f,mode-100h,mode-10f,mode-10h}  
/HOSTNAME/IP ADDR/NETMASK/GW ADDR/
```

Selective Parameter

DHCP Mode

dhcp-on : Enables DHCP.
dhcp-off : Disables DHCP.

LAN Mode

mode-auto : The interface type and the communication mode are detected automatically.
mode-100f : Connects via 100BASE-TX in full duplex mode.
mode-100h : Connects via 100BASE-TX in half duplex mode.
mode-10f : Connects via 10BASE-T in full duplex mode.
mode-10h : Connects via 10BASE-T in half duplex mode.

Typed Parameter

HOSTNAME : Enter your host name (up to 30 single-byte alphanumeric characters).
IP ADDR : Enter the IP address.
NETMASK : Enter the network mask.
GW ADDR : Enter the default gateway address.

Return Value

setup save complete ipv4lan2-lan

Examples

In case that the following IPv4 LAN2 settings are configured

DHCP Mode: Off

LAN Mode: Auto

Host Name: BATMAN

IP Address: 192.168.20.10

Network Mask: 255.255.255.0

Gateway Address: 192.168.20.254

```
setup save ipv4lan2-lan dhcp-off mode-auto  
/BATMAN/192.168.20.10/255.255.255.0/192.168.20.254/
```

setup save ipv6lan1-lan

Description

Configures the settings for IPv6 LAN1 port.

Syntax

```
setup save ipv6lan1-lan {dhcp-on,dhcp-off}
                        {mode-auto,mode-100f,mode-100h,mode-10f,mode-10h}
                        {pppoe-lan1,pppoe-lan2,pppoe-off}
                        {pppoefixedip-on,pppoefixedip-off} {pppoedns-on,pppoedns-off}
                        /IP ADDR/PREFIX LEN/GW ADDR/DNS ADDR P/DNS ADDR S
                        /PPPOE USER/PPPOE PWD/PPPOE FIX ADDR
                        /PPPOE DNS ADDR P/PPPOE DNS ADDR S/
```

Selective Parameter

Note: *-marked options are referred by the IPv6 LAN2 port setting.

DHCP Mode

dhcp-on : Enables DHCP.
 dhcp-off : Disables DHCP.

LAN Mode

mode-auto : The interface type and the communication mode are detected automatically.
 mode-100f : Connects via 100BASE-TX in full duplex mode.
 mode-100h : Connects via 100BASE-TX in half duplex mode.
 mode-10f : Connects via 10BASE-T in full duplex mode.
 mode-10h : Connects via 10BASE-T in half duplex mode.

PPPoE*

pppoe-lan1 : Uses PPPoE for LAN connection.
 pppoe-off : Does not use PPPoE.

Fixed IP for PPPoE*

pppoefixedip-on : Uses a fixed IP address for a PPPoE connection.
 pppoefixedip-off : Does not use a fixed IP address for a PPPoE connection.

DNS for a PPPoE Connection*

pppoedns-on : Assigns DNS server addresses automatically.

pppoedns-off : Allows to specify DNS server addresses manually.

Typed Parameter

Note: *-marked options are referred by the IPv6 LAN2 port setting. * For

PCS-XG80/XA80

IP ADDR :	Enter the IP address.
PREFIX LEN :	Enter the prefix length of the IPv6 address (0 to 128).
GW ADDR :	Enter the default gateway address.
DNS ADDR P :	Enter a primary DNS address. *
DNS ADDR S :	Enter a secondary DNS address. *
PPPOE USER :	Enter a user name when using PPPoE. (up to 129 bytes) *
PPPOE PWD :	Enter a password when using PPPoE. (up to 129 bytes) *
PPPOE FIX ADDR :	Fixed IP for PPPoE*
PPPOE DNS ADDR P :	Enter a primary DNS address when you use PPPoE.*
PPPOE DNS ADDR S :	Enter a secondary DNS address when you use PPPoE.*

Return Value

setup save complete ipv6lan1-lan

Examples

In case that the following IPv6 LAN1 settings are configured

DHCP Mode: Off

LAN Mode: Auto

PPPoE: Off

IP Address:FFEC:0001:0000:0000:0000:0A12:0000:0001

Prefix Length:64

Gateway Address:FFEC:0001:0000:0000:0000:0A12:0000:0002

```
setup save ipv6lan1-lan dhcp-off mode-auto pppoe-off
 / FFEC:0001::0A12:0000:0001/64/ FFEC:0001::0A12:0000:0002/
```

setup save ipv6lan2-lan (* For PCS-XG80/XA80)

Description

Configures the settings for IPv6 LAN2 port.

Syntax

```
setup save ipv6lan2-lan {dhcp-on,dhcp-off}
    {mode-auto,mode-100f,mode-100h,mode-10f,mode-10h}
    /IP ADDR/PREFIX LEN/GW ADDR/
```

Selective Parameter

DHCP Mode

dhcp-on : Enables DHCP.
 dhcp-off : Disables DHCP.

LAN Mode

mode-auto : The interface type and the communication mode are detected automatically.
 mode-100f : Connects via 100BASE-TX in full duplex mode.
 mode-100h : Connects via 100BASE-TX in half duplex mode.
 mode-10f : Connects via 10BASE-T in full duplex mode.
 mode-10h : Connects via 10BASE-T in half duplex mode.

Typed Parameter

IP ADDR : Enter the IP address.
 PREFIX LEN : Enter the prefix length of the IPv6 address (0 to 128).
 GW ADDR : Enter the default gateway address.

Return Value

setup save complete ipv6lan2-lan

Examples

In case that the following IPv6 LAN2 settings are configured

DHCP Mode: On
 LAN Mode: Auto
 PPPoE: Off

```
setup save ipv6lan2-lan dhcp-on mode-auto pppoe-off
```


setup save h323

Description

Configures the H.323 settings for the IPv4 LAN1 port.

Syntax

```
setup save h323 {gk-auto,gk-on,gk-off} {gk-h460-on,gk-h460-off}{arc-on,arc-off}
  {ratedetect-on,ratedetect-off} {arq-on,arq-off}
  {arqbuftimeauto-on,arqbuftimeauto-off} {fec-on,fec-off}
  {fecredundancy-auto,fecredundancy-2,fecredundancy-4,fecredundancy-8}
  {audiouble-on,audiouble-off} {reorder-on,reorder-off}
  {reorderbufauto-on,reorderbufauto-off} {shaping-on,shaping-off}
  /GK ADDR/H323 ALIAS/E164 NUM/Q931 PORT NUM/H245 PORT NUM/
  /TCP PORT NUM/UDP PORT NUM/ARQ BUF TIME/REORDER BUF SIZE/
```

Selective Parameter

Gatekeeper Mode

gk-auto : Automatically detects the gatekeeper and uses it.
 gk-on : Enables the gatekeeper.
 gk-off : Disables the gatekeeper.

NAT/Firewall Traversal (H.460)

gk-h460-on : Enables the gatekeeper.
 gk-h460-off : Disables the gatekeeper.

Adaptive Rate Control (ARC)

arc-on : Enables the ARC function.
 arc-off : Disables the ARC function.

Auto Bandwidth Detection

ratedetect-on : Enables the Auto Bandwidth Detection function.
 ratedetect-off : Disables the Auto Bandwidth Detection function.

Packet Resend Request (ARQ)

arq-on : Enables the ARQ function.
 arq-off : Disables the ARQ function.

ARQ Buffering Time

arqbuftimeauto-on : Sets the buffering time used for ARQ to "Auto".
 arqbuftimeauto-off : Allows you to set the buffering time used for ARQ manually.

Forward Error Correction (FEC)

- fec-on : Enables the FEC function.
- fec-off : Disables the FEC function.

FEC Redundancy

- fecredundancy-auto : Sets redundancy of the packet used for FEC to “Auto”.
- fecredundancy-2 : Sets redundancy of the packet used for FEC to “2”.
- fecredundancy-4 : Sets redundancy of the packet used for FEC to “4”.
- fecredundancy-8 : Sets redundancy of the packet used for FEC to “8”.

Audio Duplex Transmission

- audiouble-on : Enables the Audio Duplex Transmission feature.
- audiouble-off : Disables the Audio Duplex Transmission feature.

Re-Order

- reorder-on : Corrects re-order.
- reorder-off : Does not correct re-order.

Re-Order Buffer

- reorderbufauto-on : Sets the re-order buffer to “Auto”.
- reorderbufauto-off : Allows you to set the re-order buffer manually.

Shaping

- shaping-on : Uses shaping which adjusts the IP packet transfer rate.
- shaping-off : Does not use shaping.

Typed Parameter

- GK ADDR : Enter the address of the gatekeeper.
- H323 ALIAS : Enter the user name (H.323 alias) registered in the gatekeeper.(up to 30 bytes)
- E164 NUM : Enter the user number (E.164 number) registered in the gatekeeper. (up to 30 bytes)
- Q931 PORT NUM : Enter the Q.931 port number.
- H245 PORT NUM : Enter the H.245 port number.
- TCP PORT NUM : Enter the TCP port number.
- UDP PORT NUM : Enter the UDP port number.
- ARQ BUF TIME : Enter the buffering time (Unit: msec, 0 or 50 to 999)
- REORDER BUF SIZE : Enter the re-order buffer rate. (1 to 5)

Return Value

setup save complete ipv4lan1-h323

Examples

In case that the following IPv4 LAN1 H.323 settings are configured

Gatekeeper: On
ARC: On
Auto Bandwidth Detect: On
ARQ: On
ARQ Buffering Time: Auto
FEC: On
FEC Redundancy: Auto
Audio Duplex Transmission: On
Re-Order: On
Re-Order Buffer: Auto
Shaping: On
Gatekeeper Address: 192.168.10.200
User Name of Gatekeeper: PETER
User Number of Gatekeeper: 12345

```
setup save h323 gk-on arc-on ratedetect-on arq-on arqbuftimeauto-on fec-on  
fecredundancy-auto audiodouble-on reorder-on reorderbufauto-on  
shaping-on /192.168.10.200/PETER/12345/
```

In case of setting the UDP port number of IPv4 LAN1 port to "50000"

```
setup save h323 /!/!/!/!/50000/
```

setup save ipv4lan1-h323

Description

Configures the H.323 settings for the IPv4 LAN1 port.
(same as “setup save h323” mentioned above)

Syntax

```
setup save ipv4lan1-h323 {gk-auto,gk-on,gk-off} {gk-h460-on,gk-h460-off}
{arc-on,arc-off} {ratedetect-on,ratedetect-off} {arq-on,arq-off}
{arqbuftimeauto-on,arqbuftimeauto-off} {fec-on,fec-off}
{fcredundancy-auto,fcredundancy-2,fcredundancy-4,fcredundancy-8}
{audiouble-on,audiouble-off} {reorder-on,reorder-off}
{reorderbufauto-on,reorderbufauto-off} {shaping-on,shaping-off}
/GK ADDR/H323 ALIAS/E164 NUM/Q931 PORT NUM/H245 PORT NUM/
/TCP PORT NUM/UDP PORT NUM/ARQ BUF TIME/REORDER BUF SIZE/
```

Selective Parameter

Note: *-marked parameter settings are used for “setup save h323”.

Gatekeeper Mode

gk-auto : Automatically detects the gatekeeper and uses it.
gk-on : Enables the gatekeeper.
gk-off : Disables the gatekeeper.

NAT/Firewall Traversal (H.460)

gk-h460-on : Enables the gatekeeper.
gk-h460-off : Disables the gatekeeper.

Adaptive Rate Control (ARC)*

arc-on : Enables the ARC function.
arc-off : Disables the ARC function.

Auto Bandwidth Detection*

ratedetect-on : Enables the Auto Bandwidth Detection function.
ratedetect-off : Disables the Auto Bandwidth Detection function.

Packet Resend Request (ARQ)*

arq-on : Enables the ARQ function.
arq-off : Disables the ARQ function.

ARQ Buffering Time*

arqbuftimeauto-on : Sets the buffering time used for ARQ to “Auto”.

- arqbuftimeauto-off : Allows you to set the buffering time used for ARQ manually.
- Forward Error Correction(FEC)*
 - fec-on : Enables the FEC function.
 - fec-off : Disables the FEC function.
- FEC Redundancy*
 - fecredundancy-auto : Sets redundancy of the packet used for FEC to "Auto".
 - fecredundancy-2 : Sets redundancy of the packet used for FEC to "2".
 - fecredundancy-4 : Sets redundancy of the packet used for FEC to "4".
 - fecredundancy-8 : Sets redundancy of the packet used for FEC to "8".
- Audio Duplex Transmission*
 - audiodouble-on : Enables the Audio Duplex Transmission feature.
 - audiodouble-off : Disables the Audio Duplex Transmission feature.
- Re-Order*
 - reorder-on : Enables the re-order function.
 - reorder-off : Disables the re-order function.
- Re-Order Buffer*
 - reorderbufauto-on : Sets the re-order buffer to "Auto".
 - reorderbufauto-off : Allows you to set the re-order buffer manually.
- Shaping*
 - shaping-on : Uses shaping which adjusts the IP packet transfer rate.
 - shaping-off : Does not use shaping.

Typed Parameter

Note: *-marked parameter settings are used for "setup save h323".

- GK ADDR : Enter the address of the gatekeeper.
- H323 ALIAS : Enter the user name (H.323 alias) registered in the gatekeeper.(up to 30 bytes)
- E164 NUM : Enter the user number (E.164 number) registered in the gatekeeper. (up to 30 bytes)
- Q931 PORT NUM : Enter the Q.931 port number*.
- H245 PORT NUM : Enter the H.245 port number*.
- TCP PORT NUM : Enter the TCP port number*.
- UDP PORT NUM : Enter the UDP port number*.

ARQ BUF TIME : Enter the buffering time (Unit: msec, 0 or 50 to 999) *
REORDER BUF SIZE : Enter the re-order buffer rate. (1 to 5) *

Return Value

setup save complete ipv4lan1-h323

Examples

In case that the following IPv4 LAN1 H.323 settings are configured

Gatekeeper: On
NAT/Firewall Traversal: Off
ARC: On
Auto Bandwidth Detect: On
ARQ: On
ARQ Buffering Time: Auto
FEC: On
FEC Redundancy: Auto
Audio Duplex Transmission: On
Re-Order: On
Re-Order Buffer: Auto
Shaping: On
Gatekeeper Address: 192.168.10.200
User Name of Gatekeeper: PETER
User Number of Gatekeeper: 12345

```
setup save ipv4lan1-h323 gk-on gk-h460-off arc-on ratedetect-on arq-on  
arqbuftimeauto-on fec-on fecredundancy-auto  
audiouble-on reorder-on reorderbufauto-on shaping-on  
/192.168.10.200/PETER/12345/
```

In case of setting the UDP port number of IPv4 LAN1 port to “50000”

```
setup save ipv4lan1-h323 //!!!!!!/50000/
```

setup save ipv6lan1-h323

Description

Configures the IPv6 LAN1 H.323 settings.

Syntax

```
setup save ipv6lan1-h323 {gk-auto,gk-on,gk-off} {gk-h460-on,gk-h460-off}  
/GK ADDR/H323 ALIAS/E164 NUM/
```

Selective Parameter

Gatekeeper Mode

gk-auto :	Automatically detects the gatekeeper and uses it.
gk-on :	Enables the gatekeeper.
gk-off :	Disables the gatekeeper.

Typed Parameter

GK ADDR :	Enter the address of the gatekeeper.
H323 ALIAS :	Enter the user name (H.323 alias) registered in the gatekeeper.(up to 30 bytes)
E164 NUM :	Enter the user number (E.164 number) registered in the gatekeeper. (up to 30 bytes)

Return Value

```
setup save complete ipv6lan1-h323
```

Examples

In case that the following IPv6 LAN1 H.323 settings are configured

Gatekeeper: On

NAT/Firewall Traversal: Off

Gatekeeper Address: FFEC:0001:0000:0000:0000:0A12:0000:0003

User Name of Gatekeeper: BRIAN

User Number of Gatekeeper: 98765

```
setup save ipv6lan1-h323 gk-on gk-h460-off  
/ FFEC:0001::0A12:0000:0003/BRIAN/98765/
```

setup save rtp-rtcp

Description

Configures the RTP/RTCP settings.

Syntax

setup save rtp-rtcp /RTP RTCP PORT NUM/MTU SIZE/

Selective Parameter

None

Typed Parameter

RTP RTCP PORT NUM : Enter the RTP/RTCP port number.

MTU SIZE : Enter the MTU size.

Return Value

setup save complete rtp-rtcp

Examples

In case of setting the starting port number of RTP/RTCP to 3000 and the MTU size to 1200 bytes.

```
setup save rtp-rtcp /3000/1200/
```


setup save tosvideo

Description

Configures the TOS settings for video packets.

Syntax

```
setup save tosvideo {tos-off,tos-ipprecedence,tos-dscp}
                    {lowdelay-on,lowdelay-off} {highthroughput-on,highthroughput-off}
                    {highreliability-on,highreliability-off} {minimumcost-on,minimumcost-off}
                    /IP PRECEDENCE/DSCP/
```

Selective Parameter

TOS Definition

tos-off :	Does not define the TOS field.
tos-ipprecedence :	Defines the TOS field as IP Precedence.
tos-dscp :	Defines the TOS field as DSCP.

Low Delay

lowdelay-on :	Specifies the Low Delay bit of the TOS field.
lowdelay-off :	Does not specify the Low Delay bit of the TOS field.

High Throughput

highthroughput-on :	Specifies the High Throughput bit of the TOS field.
highthroughput-off :	Does not specify the High Throughput bit of the TOS field.

High Reliability

highreliability-on :	Specifies the High Reliability bit of the TOS field.
highreliability-off :	Does not specify the High Reliability bit of the TOS field.

Minimum Cost

minimumcost-on :	Specifies the Minimum Cost bit of the TOS field.
minimumcost-off :	Does not specify the Minimum Cost bit of the TOS field.

Typed Parameter

IP PRECEDENCE :	Enter the IP Precedence value (0 to 7).
DSCP :	Enter the DSCP value (0 to 63).

Return Value

setup save complete tosvideo

Examples

In case that the following settings are configured for video packets

TOS Define: IP PRECEDENCE

High Throughput: On

High Reliability: On

IP Precedence value: 2

```
setup save tosvideo tos- ipprecedence lowdelay-off highthroughput-on  
highreliability-on minimumcost-off /2/
```

setup save tosaudio

Description

Configures the TOS settings for audio packets.

Syntax

```
setup save tosaudio {tos-off,tos-ipprecedence,tos-dscp}
                    {lowdelay-on,lowdelay-off} {highthroughput-on,highthroughput-off}
                    {highreliability-on,highreliability-off} {minimumcost-on,minimumcost-off}
                    /IP PRECEDENCE/DSCP/
```

Selective Parameter

TOS Definition

tos-off :	Does not define the TOS field.
tos-ipprecedence :	Defines the TOS field as IP Precedence.
tos-dscp :	Defines the TOS field as DSCP.

Low Delay

lowdelay-on :	Specifies the Low Delay bit of the TOS field.
lowdelay-off :	Does not specify the Low Delay bit of the TOS field.

High Throughput

highthroughput-on :	Specifies the High Throughput bit of the TOS field.
highthroughput-off :	Does not specify the High Throughput bit of the TOS field.

High Reliability

highreliability-on :	Specifies the High Reliability bit of the TOS field.
highreliability-off :	Does not specify the High Reliability bit of the TOS field.

Minimum Cost

minimumcost-on :	Specifies the Minimum Cost bit of the TOS field.
minimumcost-off :	Does not specify the Minimum Cost bit of the TOS field.

Typed Parameter

IP PRECEDENCE :	Enter the IP Precedence value (0 to 7) .
DSCP :	Enter the DSCP value (0 to 63) .

Return Value

setup save complete tosaudio

Examples

In case that the following settings are configured for audio packets

TOS Define: IP PRECEDENCE

High Throughput: On

High Reliability: On

IP Precedence value.: 2

```
setup save tosaudio tos- ipprecedence lowdelay-off highthroughput-on  
highreliability-on minimumcost-off /2/
```

setup save tospresen

Description

Configures the TOS settings for H.239(RGB) packets.

Syntax

```
setup save tospresen {tos-off,tos-ipprecedence,tos-dscp}
                    {lowdelay-on,lowdelay-off} {highthroughput-on,highthroughput-off}
                    {highreliability-on,highreliability-off} {minimumcost-on,minimumcost-off}
                    /IP PRECEDENCE/DSCP/
```

Selective Parameter

TOS Definition

tos-off :	Does not define the TOS field.
tos-ipprecedence :	Defines the TOS field as IP Precedence.
tos-dscp :	Defines the TOS field as DSCP.

Low Delay

lowdelay-on :	Specifies the Low Delay bit of the TOS field.
lowdelay-off :	Does not specify the Low Delay bit of the TOS field.

High Throughput

highthroughput-on :	Specifies the High Throughput bit of the TOS field.
highthroughput-off :	Does not specify the High Throughput bit of the TOS field.

High Reliability

highreliability-on :	Specifies the High Reliability bit of the TOS field.
highreliability-off :	Does not specify the High Reliability bit of the TOS field.

Minimum Cost

minimumcost-on :	Specifies the Minimum Cost bit of the TOS field.
minimumcost-off :	Does not specify the Minimum Cost bit of the TOS field.

Typed Parameter

IP PRECEDENCE :	Enter the IP Precedence value (0 to 7) .
DSCP :	Enter the DSCP value (0 to 63) .

Return Value

setup save complete tospresen

Examples

In case that the following settings are configured for H.239(RGB) packets

TOS Define: IP PRECEDENCE

High Throughput: On

High Reliability: On

IP Precedence value.: 2

```
setup save tospresen tos- ipprecedence lowdelay-off highthroughput-on  
highreliability-on minimumcost-off /2/
```

setup save toscamera

Description

Configures the TOS settings for FECC packets.

Syntax

```
setup save toscamera {tos-off,tos-ipprecedence,tos-dscp}
                    {lowdelay-on,lowdelay-off} {highthroughput-on,highthroughput-off}
                    {highreliability-on,highreliability-off} {minimumcost-on,minimumcost-off}
                    /IP PRECEDENCE/DSCP/
```

Selective Parameter

TOS Definition

tos-off :	Does not define the TOS field.
tos-ipprecedence :	Defines the TOS field as IP Precedence.
tos-dscp :	Defines the TOS field as DSCP.

Low Delay

lowdelay-on :	Specifies the Low Delay bit of the TOS field.
lowdelay-off :	Does not specify the Low Delay bit of the TOS field.

High Throughput

highthroughput-on :	Specifies the High Throughput bit of the TOS field.
highthroughput-off :	Does not specify the High Throughput bit of the TOS field.

High Reliability

highreliability-on :	Specifies the High Reliability bit of the TOS field.
highreliability-off :	Does not specify the High Reliability bit of the TOS field.

Minimum Cost

minimumcost-on :	Specifies the Minimum Cost bit of the TOS field.
minimumcost-off :	Does not specify the Minimum Cost bit of the TOS field.

Typed Parameter

IP PRECEDENCE :	Enter the IP Precedence value (0 to 7) .
DSCP :	Enter the DSCP value (0 to 63) .

Return Value

setup save complete toscamera

Examples

In case that the following settings are configured for FECC packets

TOS Define: IP PRECEDENCE

High Throughput: On

High Reliability: On

IP Precedence value.: 2

```
setup save toscamera tos- ipprecedence lowdelay-off highthroughput-on  
highreliability-on minimumcost-off /2/
```


setup save sip

Description

Configures the basic SIP settings for IPv4 LAN1.

Syntax

```
setup save sip1 {service-general,service-general-reg}
```

Selective Parameter

SIP Server

service-general : Uses the SIP server.

service-general-reg : Does not use the SIP server.

Typed Parameter

None

Return Value

```
setup save complete ipv4lan1-sip
```

setup save ipv4lan1-sip

Description

Configures the basic SIP settings for IPv4 LAN1.
(same as “setup save sip” mentioned above)

Syntax

```
setup save ipv4lan1-sip {service-general,service-general-reg}
```

Selective Parameter

SIP Server

service-general : Uses the SIP server.

service-general-reg : Does not use the SIP server.

Typed Parameter

None

Return Value

```
setup save complete ipv4lan1-sip
```

setup save ipv6lan1-sip

Description

Configures the basic SIP settings for IPv6 LAN1.

Syntax

```
setup save ipv6lan1-sip {service-general,service-general-reg}
```

Selective Parameter

SIP Server

service-general : Uses the SIP server.

service-general-reg : Does not use the SIP server.

Typed Parameter

None

Return Value

```
setup save complete ipv6lan1-sip
```

setup save sip-genreg

Description

Configures the SIP server settings for IPv4 LAN1.

Syntax

```
setup save sip1-genreg {udp,tcp} {dtmf-on,dtmf-off}  
/PORT_NUM/SIP_DOMAIN/USER/PASSWD/SERV_ADDR/SERV_PORT/
```

Selective Parameter

Transport Protocol

udp : Uses UDP.
tcp : Uses TCP.

DTMF

dtmf-on : Enables the DTMF transmission.
dtmf-off : Disables the DTMF transmission.

Typed Parameter

PORT_NUM : Enter the port number.
SIP_DOMAIN : Enter the SIP domain(up to 39 bytes).
USER : Enter the registration user name (up to 39 bytes).
PASSWD : Enter the password (up to 39 bytes).
SERV_ADDR : Enter the SIP server address.
SERV_PORT : Enter the port number used for the communication with the SIP server.

Return Value

setup save complete ipv4lan1-sip-genreg

setup save ipv4lan1-sip-genreg

Description

Configures the SIP server settings for IPv4 LAN1.
(same as “setup save sip-genreg” mentioned above)

Syntax

```
setup save ipv4lan1-sip-genreg {udp,tcp} {dtmf-on,dtmf-off}
  /PORT_NUM/SIP_DOMAIN/USER/PASSWD/SERV_ADDR/SERV_PORT/
```

Selective Parameter

Transport Protocol

udp : Uses UDP.
tcp : Uses TCP.

DTMF

dtmf-on : Enables the DTMF transmission.
dtmf-off : Disables the DTMF transmission.

Typed Parameter

PORT_NUM : Enter the port number.
SIP_DOMAIN : Enter the SIP domain(up to 39 bytes).
USER : Enter the registration user name (up to 39 bytes).
PASSWD : Enter the password (up to 39 bytes)
SERV_ADDR : Enter the SIP server address.
SERV_PORT : Enter the port number used for the communication with the SIP server.

Return Value

setup save complete ipv4lan1-sip-genreg

setup save ipv6lan1-sip-genreg

Description

Configures the SIP server settings for Ipv6 LAN1.

Syntax

```
setup save ipv6lan1-sip-genreg {udp,tcp} {dtmf-on,dtmf-off}  
/PORT_NUM/SIP_DOMAIN/USER/PASSWD/SERV_ADDR/SERV_PORT/
```

Selective Parameter

Transport Protocol

udp : Uses UDP.
tcp : Uses TCP.

DTMF

dtmf-on : Enables the DTMF transmission.
dtmf-off : Disables the DTMF transmission.

Typed Parameter

PORT_NUM : Enter the port number.
SIP_DOMAIN : Enter the SIP domain(up to 39 bytes).
USER : Enter the registration user name (up to 39 bytes).
PASSWD : Enter the password (up to 39 bytes)
SERV_ADDR : Enter the SIP server address.
SERV_PORT : Enter the port number used for the communication with
the SIP server.

Return Value

setup save complete ipv6lan1-sip-genreg

setup save sip-gen

Description

Configures the SIP settings for IPv4 LAN1 (without the SIP server).

Syntax

setup save sip1-gen {udp,tcp} {dtmf-on,dtmf-off} /PORT_NUM/SIP_DOMAIN/

Selective Parameter

Transport Protocol

udp : Uses UDP.

tcp : Uses TCP.

DTMF

dtmf-on : Enables the DTMF transmission.

dtmf-off : Disables the DTMF transmission.

Typed Parameter

PORT_NUM : Enter the port number.

SIP_DOMAIN : Enter the SIP domain (up to 39 bytes).

Return Value

setup save complete ipv4lan1-sip-gen

setup save ipv4lan1-sip-gen

Description

Configures the SIP settings for IPv4 LAN1 (without the SIP server).
(same as “setup save sip-gen” mentioned above)

Syntax

```
setup save ipv4lan1-sip-gen {udp,tcp} {dtmf-on,dtmf-off}  
/PORT_NUM/SIP_DOMAIN/
```

Selective Parameter

Transport Protocol

udp : Uses UDP.

tcp : Uses TCP.

DTMF

dtmf-on : Enables the DTMF transmission.

dtmf-off : Disables the DTMF transmission.

Typed Parameter

PORT_NUM : Enter the port number.

SIP_DOMAIN : Enter the SIP domain (up to 39 bytes).

Return Value

setup save complete ipv4lan1-sip-gen

setup save ipv6lan1-sip-gen

Description

Configures the SIP setting without the SIP server for IPv6 LAN1.

Syntax

```
setup save ipv6lan1-sip-gen {udp,tcp} {dtmf-on,dtmf-off}  
/PORT_NUM/SIP_DOMAIN/
```

Selective Parameter

Transport Protocol

udp : Uses UDP.

tcp : Uses TCP.

DTMF

dtmf-on : Enables the DTMF transmission.

dtmf-off : Disables the DTMF transmission.

Typed Parameter

PORT_NUM : Enter the port number.

SIP_DOMAIN : Enter the SIP domain (up to 39 bytes).

Return Value

setup save complete ipv6lan1-sip-gen

setup save isdn

Description

Configures the basic settings for ISDN lines.

Syntax

```
setup save isdn
{national-isdn,5ess-p-pm,dms-100,5ess-p-p,ntt,euro-isdn,euro-isdn-france}
/COUNTRY_AREA/
```

Selective Parameter

Protocol	
national-isdn :	NATIONAL ISDN
5ess-p-pm :	5ESS-P-PM
dms-100 :	DMS-100
5ess-p-p :	5ESS-P-P
ntt :	NTT
euro-isdn :	EURO ISDN
euro-isdn-france	EURO ISDN FRANCE

Typed Parameter

COUNTRY_AREA : Enter the country or region. (Also see APPENDIX-E.)

Return Value

setup save complete isdn

Examples

In case of setting the protocol to NTT and the country to Japan for ISDN lines.

```
setup save isdn ntt /116/
```

setup save isdn[1-6]

Description

Configures the ISDN ports (1 to 6).

Syntax

```
setup save isdn[1-6]  
    /AREA_CODE_1/AREA_CODE_2/LOCAL_NUM_1/LOCAL_NUM_2/  
    SUB_ADDR_1/SUB_ADDR_2/SPID_1/SPID_2/
```

Selective Parameter

None

Typed Parameter

AREA_CODE_1 :	Enter the area code 1 of the ISDN line to be used (up to 39 bytes) .
AREA_CODE_2 :	Enter the area code 2 of the ISDN line to be used (up to 39 bytes) .
LOCAL_NUM_1 :	Enter the line number 1 (local number) of the ISDN line to be used (up to 39 bytes) .
LOCAL_NUM_2 :	Enter the line number 2 (local number) of the ISDN line to be used (up to 39 bytes) .
SUB_ADDR_1 :	Enter the sub-addresses 1 (up to 39 bytes) .
SUB_ADDR_2 :	Enter the sub-addresses 2 (up to 39 bytes) .
SPID_1 :	Enter the SPID code 1 (up to 39 bytes) .
SPID_2 :	Enter the SPID code 2 (up to 39 bytes) .

Return Value

setup save complete isdn[1-6]

Examples

In case of setting the area codes 1 and 2 to “3” respectively and line numbers 1 and 2 to “55551111” respectively for the ISDN port 1.

```
setup save isdn1 /3/3/55551111/55551111/
```

setup save annotation

Description

Configures the annotation settings.

Syntax

```
setup save annotation {annot-on,annot-off}  
    {pencolor-black,pencolor-blue,pencolor-green,pencolor-orange,  
    pencolor-red,pencolor-purple,pencolor-yellow,pencolor-white}  
    {penthick-narrow,penthick-middle,penthick-wide}
```

Selective Parameter

Enable

annot-on :	Enables the annotation function.
annot-off :	Disables the annotation function.

Color (the color of the letters/graphics written with a pen tablet.)

pencolor-black :	Selects "Black".
pencolor-blue :	Selects "Blue".
pencolor-green :	Selects "Green".
pencolor-orange :	Selects "Orange".
pencolor-red :	Selects "Red".
pencolor-purple :	Selects "Purple".
pencolor-yellow :	Selects "Yellow".
pencolor-white :	Selects "White".

Line Density (the thickness of the line written with a pen tablet.)

penthick-narrow :	Selects narrow lines.
penthick-middle :	Selects mid-thickness lines.
penthick-wide :	Selects broad lines.

Typed Parameter

None

Return Value

setup save complete annotation

Examples

In case of setting the color to “Black” and “Line Density” to “Medium” for the annotation function.

```
setup save annotation annot-on pencolor-black penthick-middle
```

setup save camera

Description

Configures the camera settings.

Syntax

```
setup save camera
{brightface-off,brightface-low,brightface-middle,brightface-high}
{noisereduct-off,noisereduct-low,noisereduct-middle,noisereduct-high}
{smoothptz-on,smoothptz-off}
{cam2inp-rgb,cam2inp-ypbpr,cam2inp-svideo}
{cam1inv-on,cam1inv-off} {cam2inv-on,cam2inv-off}
```

Selective Parameter

BrightFace

brightface-off :	Disables the BrightFace function.
brightface-low :	Enables the BrightFace function with efficacy set to "Low".
brightface-middle :	Enables the BrightFace function with efficacy set to "Medium".
brightface-high :	Enables the BrightFace function with efficacy set to "High".

Noise Reduction Filter

noisereduct-off :	Disables the Noise Reduction Filter.
noisereduct-low :	Enables the Noise Reduction Filter with efficacy set to "Low".
noisereduct-middle :	Enables the Noise Reduction Filter with efficacy set to "Medium".
noisereduct-high :	Enables the Noise Reduction Filter with efficacy set to "High".

Fade In

smoothptz-on :	Enables the Fade-in function.
smoothptz-off :	Disables the Fade-in function.

Second Camera Input

cam2inp-rgb :	Selects a camera connected to the RGB IN connector as the second camera.
---------------	--

cam2inp-ypbpr : Selects a camera connected to the VIDEO IN YPbPr as the second camera.

cam2inp-svideo : Selects a camera connected to the S VIDEO IN connector as the second camera.

* For PCS-XG80/XA80

Image Flip for First Camera

cam1inv-on : Enables the image flip function of the 1st camera to rotate the camera image 180 degrees. This command is enabled only when the camera has the image flip function.

cam1inv-off : Does not rotate the image 180 degrees.

Image Flip for Second Camera

cam2inv-on : Enables the image flip function of the 2nd camera to rotate the camera image 180 degrees. This command is enabled only when the camera has the image flip function.

cam2inv-off : Does not rotate the image 180 degrees.

Typed Parameter

None

Return Value

setup save complete camera

Examples

In case that the following settings are configured.

BrightFace: Medium

Noise Reduction Filter: Medium

Second Camera Input: YPbPr

Image Flip for First Camera: Off

Image Flip for Second Camera: On

```
setup save camera brightface-middle noisereduct-middle cam2inp-ypbpr  
cam1inv-off cam2inv-on
```

setup save general

Description

Configures the general settings.

Syntax

```
setup save general {sleep-on,sleep-off} {listsave-on,listsave-off}
{camcontrolled-on,camcontrolled-off}
{english,french,german,italian,japanese,spanish,simplifiedchinese,potuguese,
traditionalchinese,korean,dutch,swedish,norwegian,danish,finnish,polish,
russian,arabic,thai,turkish,welsh,czech,hungarian}
{main-ledbright-off,main-ledbright-dark,main-ledbright-light}
{cam-ledbright-off,cam-ledbright-dark,cam-ledbright-light}
{remrecv-main,remrecv-camera} {ntp-on,ntp-off} {*timezone}
{dateform-yyyy|mm|dd,dateform-mm|dd|yyyy,dateform-dd|mm|yyyy,
dateform-yyyy-mm-dd,dateform-dd.mm.yyyy} {timedisp-on,timedisp-off}
{selfnamedisp-on,selfnamedisp-off}
{nd-off,nd-sipname,nd-sipaddress,nd-gkusername,nd-gkusernumber,
nd-naraddress,nd-ipaddress} {termstatusdisp-on,termstatusdisp-off}
{errormsgdisp-on,errormsgdisp-off}
{buttonconnect-off,buttonconnect-simple,buttonconnect-eachset}
{buttonaddress-on,buttonaddress-off} {buttonhistory-on,buttonhistory-off}
{buttondetailconnect-on,buttondetailconnect-off}
{buttoncamera-on,buttoncamera-off} {buttontool-on,buttontool-off}
{buttonshortcutdial-on,buttonshortcutdial-off}
{buttondirectdial-on,buttondirectdial-off} {videoindisp-on,videoindisp-off}
{audioindisp-on,audioindisp-off} {audioleveldisp-on,audioleveldisp-off}
{volumedisp-on,volumedisp-off} {iconlanstatusdisp-on,iconlanstatusdisp-off}
{iconisdnstatusdisp-on,iconisdnstatusdisp-off}
{commtimedisp-off,commtimedisp-communication,commtimedisp-current}
{termnamedisp-off,termnamedisp-on,termnamedisp-tmp}
{buttonguide-on,buttonguide-off} {indicator-on,indicator-off}
{connectstatus-on,connectstatus-off} {softkb-on,softkb-off}
{transparency-high, transparency-middle, transparency-low}
{f1key-camera, f1key-rgb, f1key-ybpr, f1key-svideo, f1key-no-operation,
f1key-far-near}
```


{f2key-camera, f2key-rgb, f2key-ybpr, f2key-svideo, f2key-no-operation}
 {f3key-camera, f3key-rgb, f3key-ybpr, f3key-svideo, f3key-no-operation,
 f3key-zoom-rgb}
 {f4key-camera, f4key-rgb, f4key-ybpr, f4key-svideo, f4key-no-operation}
/TERMNAME/TIME TO STANDBY/NTP P SERV/NTP S SERV/

Selective Parameter

Standby Mode

sleep-on : Allows the System to go on standby when it is idle for a specified period of time..

sleep-off : Does not allow the System to go on standby

Last Number Registration

listsave-on : Registers the remote party in the Phone Book after the communication ends.

listsave-off : The registration of the remote party does not take place.

Control by Far End

camcontrolled-on : Accepts the camera control command from a remote party.

camcontrolled-off : Rejects the camera control command from a remote party.

Language

english : Selects English for the menu/display language.

french : Selects French for the menu/display language.

german : Selects German for the menu/display language.

italian : Selects Italian for the menu/display language.

japanese : Selects Japanese for the menu/display language.

spanish : Selects Spanish for the menu/display language.

simplifiedchinese : Selects Simplified Chinese for the menu/display language.

portuguese : Selects Portuguese for the menu/display language.

traditionalchinese : Selects Traditional Chinese for the menu/display language.

korean : Selects Korean for the menu/display language.

dutch : Selects Dutch for the menu/display language.

swedish :	Selects Swedish for the menu/display language.
norwegian :	Selects Norwegian for the menu/display language.
danish :	Selects Danish for the menu/display language.
finnish :	Selects Finnish for the menu/display language.
polish :	Selects Polish for the menu/display language.
russian :	Selects Russian for the menu/display language.
arabic :	Selects Arabic for the menu/display language.
thai :	Selects Thai for the menu/display language.
turkish :	Selects Turkish for the menu/display language.
welsh :	Selects Welsh for the menu/display language.
czech :	Selects Czech for the menu/display language.
hungarian :	Selects Hungarian for the menu/display language.

System LED Brightness

main-ledbright-off :	Turns off the LED of the main unit.
main-ledbright-dark :	Sets the LED brightness level to “Dark”.
main-ledbright-light :	Sets the LED brightness level to “Bright”.

Camera LED Brightness

cam-ledbright-off :	Turns off the LED of the camera unit.
cam-ledbright-dark :	Sets the LED brightness level to “Dark”.
cam-ledbright-light :	Sets the LED brightness level to “Bright”.

RF Remote Control Reception

remrecv-main :	Receives the RF signal with the receiver on the main unit.
remrecv-camera :	Receives the RF signal with the receiver on the camera unit.

NTP

ntp-on :	Obtains clock information from the server with NTP.
ntp-off :	Does not obtain clock information from the server with NTP.

Time Zone

See APPENDIX-C.

Clock Display Pattern

dateform-yyyy mm dd :	Displays the date and time in Year/Month/Day format.
dateform-mm dd yyyy :	Displays the date and time in Month/Day/Year format.

dateform-dd mm yyyy :	Displays the date and time in Day/Month/Year format.
dateform-yyyy-mm-dd :	Displays the date and time in Year-Month-Day format.
dateform-dd.mm.yyyy :	Displays the date and time in Day.Month.Year format.
Clock Display	
timedisp-on :	Displays the current time in the Home menu.
timedisp-off :	Does not display the current time.
Local Terminal Name	
selfnamedisp-on :	Display the local terminal name in the Home menu.
selfnamedisp-off :	Does not display the local terminal name.
Number Display	
nd-off :	Does not display any identification in the Home menu.
nd-sipname :	Selects the user name registered in the SIP server as identification.
nd-sipaddress :	Selects the SIP address as identification.
nd-gkusername :	Selects the user name registered in the gatekeeper as identification.
nd-gkusernumber :	Selects the user number registered in the gatekeeper as identification.
nd-nataddress :	Selects the NAT address as identification.
nd-ipaddress :	Selects the IP address as identification.
Terminal Status	
termstatusdisp-on :	Displays the local terminal status in the Home menu.
termstatusdisp-off :	Does not display the local terminal status
Warning Messages	
errormsgdisp-on :	Displays a warning message in the Home menu when an abnormality occurs.
errormsgdisp-off :	Does not display a warning message.
Connect Button Display	
buttonconnect-off :	Does not display the buttons for connection.
buttonconnect-simple :	Displays "Connect" for simple dialing.

buttonconnect-eachset :	Displays “Phone Book”, “History” or “Detailed Dial” depending on the setting of each button.
Phone Book Button Display	
buttonaddress-on :	Displays “Phone Book”.
buttonaddress-off :	Does not display “Phone Book”.
History Button Display	
buttonhistory-on :	Displays “History”.
buttonhistory-off :	Does not display “History”.
Detailed Button Display	
buttondetailconnect-on :	Displays “Detailed Dial”.
buttondetailconnect-off :	Does not display “Detailed Dial”.
Camera Button Display	
buttoncamera-on :	Displays “Camera”.
buttoncamera-off :	Does not display “Camera”.
Tools Button Display	
buttontool-on :	Displays “Tools”.
buttontool-off :	Does not display “Tools”.
One-touch Dial Buttons Display	
buttonshortcutdial-on :	Displays the one-touch dial buttons.
buttonshortcutdial-off :	Does not display the one-touch dial buttons.
Direct Dial Display	
buttondirectdial-on :	Displays “Dial” and the text box for direct dialing.
buttondirectdial-off :	Does not display “Dial” and the text box for direct dialing.
Video Input Display	
videoindisp-on :	Displays the current video input in the Home menu.
videoindisp-off :	Does not display the current video input.
Audio Input Display	
audioindisp-on :	Displays the current audio input in the Home menu.
audioindisp-off :	Does not display the current audio input.
Audio Level Meter	
audioleveldisp-on :	Displays the audio level meter in the Home menu.
audioleveldisp-off :	Does not display the audio level meter.
Volume	
volumedisp-on :	Displays the volume meter for a certain duration when the volume is adjusted.

volumedisp-off : Does not display the volume meter.

LAN Status

iconlanstatusdisp-on : Displays the current status of LAN connection.

iconlanstatusdisp-off : Does not display the current status of LAN connection.

ISDN Status

iconisdnstatusdisp-on : Displays the current status of ISDN connection.

iconisdnstatusdisp-off : Does not display the current status of ISDN connection.

Display Time in Connection

commtimedisp-off : Displays neither the elapsed nor current time during communication.

commtimedisp-communication : Displays the elapsed time during communication.

commtimedisp-current : Displays the current time during communication.

Terminal Name Display

termnamedisp-off : Does not display the terminal name.

termnamedisp-on : Display the terminal name.

termnamedisp-tmp : Display the terminal name during a certain period.

Guide

buttonguide-on : Displays the instruction that guides the operation.

buttonguide-off : Does not display the instruction.

Display Indicator

indicator-on : Displays the indicators such as “Memory Stick” and tablet.

indicator-off : Does not display the indicators

Communication Mode Display

connectstatus-on : Displays the communication mode when the system is connected to the remote site.

connectstatus-off : Does not display the communication mode.

Display On-Screen Keyboard

softkb-on : Displays the on-screen keyboard.

softkb-off : Does not display the on-screen keyboard.

Menu Transparency

- transparency-high : Sets the degree of transparency of the superimposed menu display to “High”.
- transparency-middle : Sets the degree of transparency of the superimposed menu display to “Mid”.
- transparency-low : Sets the degree of transparency of the superimposed menu display to “Low”.

F1 Key In Communication

- f1key-camera : Assigns the F1 key to select the main camera signal as video input.
- f1key-rgb : Assigns the F1 key to select the RGB signal as video input.
- f1key-ypbpr : Assigns the F1 key to select the YPbPr signal as video input.
- f1key-svideo : Assigns the F1 key to select the S video signal as video input. * For PCS-XG80/XA80
- f1key-no-operation : Inactivates the F1 key.
- f1key-far-near : Assigns the F1 key as “Far/Near” to switch the camera to be controlled between local and remote sites.

F2 Key In Communication

- f2key-camera : Assigns the F2 key to select the main camera signal as video input.
- f2key-rgb : Assigns the F2 key to select the RGB signal as video input.
- f2key-ypbpr : Assigns the F2 key to select the YPbPr signal as video input.
- f2key-svideo : Assigns the F2 key to select the S video signal as video input. * For PCS-XG80/XA80
- f2key-no-operation : Inactivates the F2 key.

F3 Key In Communication

- f3key-camera : Assigns the F3 key to select the main camera signal as video input.
- f3key-rgb : Assigns the F3 key to select the RGB signal as video input.

f3key-ypbpr :	Assigns the F3 key to select the YPbPr signal as video input.
f3key-svideo :	Assigns the F3 key to select the S video signal as video input. * For PCS-XG80/XA80
f3key-no-operation :	Inactivates the F3 key.
f3key-zoom-rgb :	Assigns the F3 key as “Zoom (RGB)” to enlarge a 4:3 aspect ratio picture.

F4 Key In Communication

f4key-camera :	Assigns the F4 key to select the main camera signal as video input.
f4key-rgb :	Assigns the F4 key to select the RGB signal as video input.
f4key-ypbpr :	Assigns the F4 key to select the YPbPr signal as video input.
f4key-svideo :	Assigns the F4 key to select the S video signal as video input. * For PCS-XG80/XA80
f4key-no-operation :	Inactivates the F4 key.

Typed Parameter

TERMNAME :	Enter the local terminal name. (up to 30 bytes)
TIME_TO_STANDBY :	Specify the time (in minutes) the system must remain idle before entering the standby mode. (0 to 99)
NTP_P_SERV :	Enter the address of the primary NTP server (up to 39 bytes).
NTP_S_SERV :	Enter the address of the secondary NTP server (up to 39 bytes).

Return Value

setup save complete general

Examples

In case of specifying the local terminal name to “XG80-1 and setting the local terminal name display to On

```
setup save general termnamedisp-on /XG80-1/
```

In case of setting “Display Time in Connection” to “Current Time”.

```
setup save general commtimedisp-current
```


setup save admin

Description

Configures the administrator settings.

Syntax

```

setup save admin {setlinemode-on,setlinemode-off} {setdial-on,setdial-off}
                {setanswer-on,setanswer-off}{setmcu-on,setmcu-off}
                {setipcomm-on,setipcomm-off}
                {setsipcomm-on,setsipcomm-off} {setisdncomm-on,setisdncomm-off}
                {setaudio-on,setaudio-off} {setvideo-on,setvideo-off} {setlan-on,setlan-off}
                {setqos-on,setqos-off} {settos-on,settos-off} {setsip-on,setsip-off}
                {setisdn-on,setisdn-off} {setgeneral-on,setgeneral-off}
                {setadmin-on,setadmin-off} {setannot-on,setannot-off}
                {setcamera-on,setcamera-off} {setencrypt-on,setencrypt-off}
                {streaming-on,streaming-off} {recording-on,recording-off}
                {vidrate-off,vidrate-64k,vidrate-128k,vidrate-384k,vidrate-512k}
                {webmonitor-on,webmonitor-off}{webaccess-on,webaccess-off}
                {telnetaccess-on,telnetaccess-off}{sshaccess-on,sshaccess-off}
                {history-on,history-off}{amxdiscovery-on,amxdiscovery-off}
                {reso1080i-on,reso1080i-off}{autocall-on,autocall-off} {autoboot-on,autoboot-off}
                {setspb-on,setspb-off} {sethome-on,sethome-off} {ipv4,ipv6}
                /MULTICAST ADDR V4/AUD PORT NUM/VID PORT NUM/
                MULTICAST HOP LIMIT/AMX HOP LIMIT/ MULTICAST ADDR V6/
    
```

Selective Parameter

Setup Password (Line I/F)

- setlinemode-on : Requires “Save Settings Password” when saving the Line I/F settings.
- setlinemode-off : Does not require “Save Settings Password” when saving the Line I/F settings.

Setup Password (Dial)

- setdial-on : Requires “Save Settings Password” when saving the dial setup settings.
- setdial-off : Does not require “Save Settings Password” when saving the dial setup settings.

Setup Password (Answer)

setanswer-on : Requires "Save Settings Password" when saving the answer setup settings.

setanswer-off : Does not require "Save Settings Password" when saving the answer setup settings.

Setup Password(MCU)

setmcu-on : Requires "Save Settings Password" when saving the Multipoint settings.

setmcu-off : Does not require "Save Settings Password" when saving the Multipoint settings.

Setup Password (IP Mode)

setipcomm-on : Requires "Save Settings Password" when saving the IP mode settings.

setipcomm-off : Does not require "Save Settings Password" when saving the IP mode settings.

Setup Password (SIP Mode)

setsipcomm-on : Requires "Save Settings Password" when saving the SIP mode settings.

setsipcomm-off : Does not require "Save Settings Password" when saving the SIP mode settings.

Setup Password (ISDN Mode)

setisdncomm-on : Requires "Save Settings Password" when saving the ISDN mode settings.

setisdncomm-off : Does not require "Save Settings Password" when saving the ISDN mode settings.

Setup Password (Audio)

setaudio-on : Requires "Save Settings Password" when saving the audio setup settings.

setaudio-off : Does not require "Save Settings Password" when saving the audio setup settings.

Setup Password (Video)

setvideo-on : Requires "Save Settings Password" when saving the video setup settings.

setvideo-off : Does not require "Save Settings Password" when saving the video setup settings.

Setup Password (LAN)

setlan-on : Requires "Save Settings Password" when saving the LAN setup settings.

setlan-off : Does not require "Save Settings Password" when saving the LAN setup settings.

Setup Password (QoS)

setqos-on : Requires "Save Settings Password" when saving the QoS setup settings.

setqos-off : Does not require "Save Settings Password" when saving the QoS setup settings.

Setup Password (TOS)

settos-on : Requires "Save Settings Password" when saving the TOS setup settings.

settos-off : Does not require "Save Settings Password" when saving the TOS setup settings.

Setup Password (SIP)

setsip-on : Requires "Save Settings Password" when saving the SIP setup settings.

setsip-off : Does not require "Save Settings Password" when saving the SIP setup settings.

Setup Password (ISDN Mode)

setisdn-on : Requires "Save Settings Password" when saving the ISDN setup settings.

setisdn-off : Does not require "Save Settings Password" when saving the ISDN setup settings.

Setup Password (General)

setgeneral-on : Requires "Save Settings Password" when saving the general setup settings.

setgeneral-off : Does not require "Save Settings Password" when saving the general setup settings.

Setup Password (Administrator)

setadmin-on : Requires "Save Settings Password" when saving the administrator setup settings.

setadmin-off : Does not require "Save Settings Password" when saving the administrator setup settings.

Setup Password (Annotation)

- setannot-on : Requires "Save Settings Password" when saving the annotation setup settings.
- setannot-off : Does not require "Save Settings Password" when saving the annotation setup settings.

Setup Password (Camera)

- setcamera-on : Requires "Save Settings Password" when saving the camera setup settings.
- setcamera-off : Does not require "Save Settings Password" when saving the camera setup settings.

Setup Password (Encryption)

- setencrypt-on : Requires "Save Settings Password" when saving the encryption setup settings.
- setencrypt-off : Does not require "Save Settings Password" when saving the encryption setup settings.

Streaming

- streaming-on : Permits the streaming broadcast.
- streaming-off : Does not permit the streaming broadcast.

Recording

- recording-on : Permits the recording of video and audio to a "Memory Stick."
- recording-off : Does not permit the recording.

Video Rate

- vidrate-off : Disables the streaming and recording of video.
- vidrate-64k : Streams and records video at 64 kbps.
- vidrate-128k : Streams and records video at 128kbps.
- vidrate-384k : Streams and records video at 384kbps.
- vidrate-512k : Streams and records video at 512kbps.

Web Monitor Permit

- webmonitor-on : Permits monitoring with a Web browser.
- webmonitor-off : Prohibits monitoring with a Web browser.

Web Access Permit

- webaccess-on : Permits access to the communication terminal via a Web browser.
- webaccess-off : Prohibits access to the communication terminal via a Web browser.

Telnet Access Permit

- telnetaccess-on : Permits access to the communication terminal via Telnet.
- telnetaccess-off : Prohibits access to the communication terminal via Telnet.

SSH Access Permit

- sshaccess-on : Permits access to the communication terminal via SSH.
- sshaccess-off : Prohibits access to the communication terminal via SSH.

Use History

- history-on : Displays the history lists.
- history-off : Does not display the history lists.

AMX Device Discovery

- amxdiscovery-on : Outputs the AMX Device Discovery information.
- amxdiscovery-off : Does not output the AMX Device Discovery information.

1080i Mode * For PCS-XG80

- reso1080i-on : Uses the 1080i video format.
- reso1080i-off : Does not use the 1080i video format.

Auto Dialing (w/Memory Stick)

- autocall-on : Enables the Auto Dialing function to automatically dial a specific number saved in Memory Stick.
- autocall-off : Disables the Auto Dialing function.

Auto Restore

- autoboot-on : Enables the Auto Restore function to automatically turn on the communication terminal if an power interruption occurs and is then restored.
- autoboot-off : Disables the Auto Restore function.

Setup Password(Shared Phone Book)

- setspb-on : Requires "Save Settings Password" when saving the Shared Phone Book settings.
- setspb-off : Does not require "Save Settings Password" when saving the Shared Phone Book settings.

Setup Password(Home Menu)

- sethome-on : Requires “Save Settings Password” when saving the Home Menu setup settings.
- sethome-off : Does not require “Save Settings Password” when saving the Home Menu setup settings.

Internet Protocol

- ipv4 : Uses the internet protocol version 4 (IPv4).
- ipv6 : Uses the next-generation internet protocol version 6 (IPv6).

KIOSK Mode

*For PCS-XG80/XG55 of Ver2.3 and later, and PCS-XA80/XA55/XL55 of All version

- kiosk-on : Enables the KIOSK mode.
- kiosk-off : Disables the KIOSK mode.

Start-up Logo

*For PCS-XG80/XG55 of Ver2.3 and later, and PCS-XA80/XA55/XL55 of All version

- startlogo-custom : Sets a custom image for the start-up logo.
- startlogo-none : Hides the start-up logo.
- startlogo-custom : Returns the start-up logo to default (IPELA logo).

Background of Home Screen

*For PCS-XG80/XG55 of Ver2.3 and later, and PCS-XA80/XA55/XL55 of All version

- homeback-custom : Sets a custom image for the background of the home screen.
- homeback-default : Returns the background to default.

Typed Parameter

- MULTICAST_ADDR_V4 : Enter the IPv4 multicast address for streaming broadcasts.
- AUD_PORT_NUM : Enter the audio port number for streaming broadcasts.
- VID_PORT_NUM : Enter the video port number for streaming broadcasts.
- MULTICAST_HOP_LIMIT : Enter a number as the HOP for streaming broadcasts.
- AMX_HOP_LIMIT : Enter a number as the HOP for data to be output.

MULTICAST_ADDR_V6 : Enter the IPv6 multicast address for streaming broadcasts.

Return Value

setup save complete admin

Examples

In case of setting the “Setup Password (LAN) to On so as to require “Save Setup Password” every time saving the LAN setup settings

```
setup save admin setlan-on
```

In case of permitting the streaming and recording at 512kbps of video and specifying the multicast address to “239.10.10.1”.

```
setup save admin streaming-on recording-on vidrate-512k /239.10.10.1/
```

setup save encryption

Description

Configures the encryption settings.

Syntax

setup save encryption {encryption-off,encryption-auto,encryption-on}

Selective Parameter

Encryption Mode

- | | |
|-------------------|--|
| encryption-off : | Does not use the encryption function. |
| encryption-auto : | Enters “Connect Priority” mode.
When connecting with the encryption function to a remote party with standard encrypted connection enabled.
When connecting without the encryption function to a remote party with standard encrypted connection disabled or with the encryption function set to off. |
| encryption-on : | Enters “Encrypt Priority” mode and always selects an encrypted conference by connecting only to a remote party with standard encrypted connection enabled. |

Typed Parameter

None

Return Value

setup save complete encryption

Examples

In case of setting the encryption mode to “Encrypt Priority”.

setup save encryption encryption-on

setup load line-mode

Description

Loads the Line I/F settings.

Syntax

setup load line-mode

Selective Parameter

None

Typed Parameter

None

Return Value

setup line-mode

IP	Refer to “Selective Parameter” section of “setup save line-mode” command.
ISDN	Refer to “Selective Parameter” section of “setup save line-mode” command.
SIP	Refer to “Selective Parameter” section of “setup save line-mode” command.
Primary line interface	Refer to “Selective Parameter” section of “setup save line-mode” command.
Use LAN2	Refer to “Selective Parameter” section of “setup save line-mode” command. * For PCS-XG80/XA80

setup load dial

Description

Loads the dial setup settings.

Syntax

setup load dial

Selective Parameter

None

Typed Parameter

None

Return Value

setup dial

Telephone Mode

Refer to “Selective Parameter” section of “setup save dial” command.

“More Options Enable” setting

Refer to “Selective Parameter” section of “setup save dial” command.

User Name Input

Refer to “Selective Parameter” section of “setup save dial” command.

BRI Prefix Select

Refer to “Selective Parameter” section of “setup save dial” command.

LAN Prefix Select

Refer to “Selective Parameter” section of “setup save dial” command.

BRI Prefix -A

BRI Prefix -B

BRI Prefix -C

LAN Prefix

setup load answer

Description

Loads the answer setup settings.

Syntax

setup load answer

Selective Parameter

None

Typed Parameter

None

Return Value

setup answer

Auto Answer

Refer to “Selective Parameter” section of “setup save answer” command.

ISDN MSN

Refer to “Selective Parameter” section of “setup save answer” command.

MIC on Answer

Refer to “Selective Parameter” section of “setup save answer” command.

Reject Answer

Refer to “Selective Parameter” section of “setup save answer” command.

setup load ip-comm

Description

Loads the communication mode settings (IP communication).

Syntax

setup load ip-comm

Selective Parameter

None

Typed Parameter

None

Return Value

setup ip-comm

Individual Settings for

Transmission/Reception

Individual Settings for P-P/MCU

Refer to “Selective Parameter” section of “setup save ip-comm” command.

Refer to “Selective Parameter” section of “setup save ip-comm” command.

Audio Mode For

Transmission (P-P)

Audio Mode For Reception (P-P)

Refer to “Selective Parameter” section of “setup save ip-comm” command.

Refer to “Selective Parameter” section of “setup save ip-comm” command.

Audio Mode For Transmission (MCU)

Refer to “Selective Parameter” section of “setup save ip-comm” command.

Audio Mode For Reception (MCU)

Refer to “Selective Parameter” section of “setup save ip-comm” command.

Far End Camera Control (P-P)

Refer to “Selective Parameter” section of “setup save ip-comm” command.

Far End Camera Control(MCU)

Refer to “Selective Parameter” section of “setup save ip-comm” command.

H.239 Presentation	Refer to “Selective Parameter” section of “setup save ip-comm” command.
H.239 Ratio	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Screen Size To Be Transmitted(P-P)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Screen Size To Be Received(P-P)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Screen Size To Be Transmitted (MCU)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Screen Size To Be Received (MCU)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Video Mode For Transmission (P-P)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Video Mode For Reception (P-P)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Video Mode For Transmission(MCU)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Video Mode For Reception(MCU)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Video Frame During Transmission(P-P)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Video Frame During Reception(P-P)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Video Frame During Transmission(MCU)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Video Frame During Reception(MCU)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
All Bandwidth(MCU)	Unit: kbps
Transmission Bit Rate (P-P)	Unit: kbps

Reception Bit Rate (P-P)	Unit: kbps
Transmission Bit Rate (MCU)	Unit: kbps
Reception Bit Rate (MCU)	Unit: kbps

setup load isdn-comm

Description

Loads the communication mode settings (ISDN communication).

Syntax

setup load isdn-comm

Selective Parameter

None

Typed Parameter

None

Return Value

setup isdn-comm

Individual Settings for P-P/MCU	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
ISDN Bandwidth (Dial) (P-P)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
ISDN Bandwidth (Answer) (P-P)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
ISDN Bandwidth (Dial) (MCU)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
ISDN Bandwidth (Answer) (MCU)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Audio Mode(P-P)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Audio Mode(MCU)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Far End Camera Control(P-P)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Far End Camera Control (MCU)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
H.239 Presentation	Refer to “Selective Parameter” section of “setup save isdn-comm” command.

H.239 Ratio	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Restrict	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Screen Size (P-P)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Screen Size (MCU)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Video Mode(P-P)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Video Mode(MCU)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Video Frame(P-P)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Video Frame(MCU)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.

setup load sip-comm

Description

Loads the communication mode settings (SIP communication).

Syntax

setup load sip-comm

Selective Parameter

None

Typed Parameter

None

Return Value

setup sip-comm

Audio Mode	Refer to “Selective Parameter” section of “setup save sip-comm” command.
Far End Camera Control	Refer to “Selective Parameter” section of “setup save sip-comm” command.
Screen Size	Refer to “Selective Parameter” section of “setup save sip-comm” command.
Video Mode	Refer to “Selective Parameter” section of “setup save sip-comm” command.
Video Frame	Refer to “Selective Parameter” section of “setup save sip-comm” command.
Communication Bit Rate	Unit: kbps

setup load audio

Description

Loads the audio settings.

Syntax

setup load audio

Selective Parameter

None

Typed Parameter

None

Return Value

setup audio

Input Select

Refer to “Selective Parameter” section of “setup save audio” command.

Mic Select (MIC)

Refer to “Selective Parameter” section of “setup save audio” command.

Mic Select (AUX)

Refer to “Selective Parameter” section of “setup save audio” command.

Echo Canceller

Refer to “Selective Parameter” section of “setup save audio” command.

Lip Sync

Refer to “Selective Parameter” section of “setup save audio” command.

Recording Mute

Refer to “Selective Parameter” section of “setup save audio” command.

Input Mode

Refer to “Selective Parameter” section of “setup save audio” command.

Output Mode

Refer to “Selective Parameter” section of “setup save audio” command.

AUX Local Monitor Out

Refer to “Selective Parameter” section of “setup save audio” command.

Reversed MIC Inputs

Refer to “Selective Parameter” section of “setup save audio” command.

Audio Input Delay Setting	Refer to “Selective Parameter” section of “setup save audio” command.
Audio Output Delay Setting	Refer to “Selective Parameter” section of “setup save audio” command.
REC OUT Mode	Refer to “Selective Parameter” section of “setup save audio” command.
Lens Cover Mic On/Off Function	Refer to “Selective Parameter” section of “setup save audio” command.
Beep Sound	Refer to “Selective Parameter” section of “setup save audio” command.
Sound Effect	Refer to “Selective Parameter” section of “setup save audio” command.
Dial Tone	Refer to “Selective Parameter” section of “setup save audio” command.
Ringer Tone	Refer to “Selective Parameter” section of “setup save audio” command.
AUX TRIMMING	Unit: dB
Audio Input Delay	
Audio Output Delay	

setup load video

Description

Loads the video settings.

Syntax

setup load video

Selective Parameter

None

Typed Parameter

None

Return Value

setup video

Video Input

Refer to “Selective Parameter” section of “setup save video” command.

Presentation Screen

Refer to “Selective Parameter” section of “setup save video” command.

Monitor Output

Refer to “Selective Parameter” section of “setup save video” command.

RGB Monitor Output Format

Refer to “Selective Parameter” section of “setup save video” command.

Frequency

Refer to “Selective Parameter” section of “setup save video” command.

Link to Audio Input

Refer to “Selective Parameter” section of “setup save video” command.

Input Select With “Camera” Selected

Refer to “Selective Parameter” section of “setup save video” command.

Mic Select (MIC) With “Camera” Selected

Refer to “Selective Parameter” section of “setup save video” command.

Mic Select (AUX) With “Camera” Selected

Refer to “Selective Parameter” section of “setup save video” command.

Input Select With “RGB” Selected

Refer to “Selective Parameter” section of “setup save video” command.

Mic Select (MIC) With "RGB" Selected	Refer to "Selective Parameter" section of "setup save video" command.
Mic Select (AUX) With "RGB" Selected	Refer to "Selective Parameter" section of "setup save video" command.
Input Select With "YPbPr" Selected	Refer to "Selective Parameter" section of "setup save video" command.
Mic Select (MIC) With "YPbPr" Selected	Refer to "Selective Parameter" section of "setup save video" command.
Mic Select (AUX) With "YPbPr" Selected	Refer to "Selective Parameter" section of "setup save video" command.
Input Select With "S-Video" Selected	Refer to "Selective Parameter" section of "setup save video" command.
Mic Select (MIC) With "S-Video" Selected	Refer to "Selective Parameter" section of "setup save video" command.
Mic Select (AUX) With "S-Video" Selected	Refer to "Selective Parameter" section of "setup save video" command.
Blanking Period	Refer to "Selective Parameter" section of "setup save video" command.
Name of Video Input With "Camera" Selected	
Name of Video Input With "RGB" Selected	
Name of Video Input With "YPbPr" Selected	
Name of Video Input With "S-Video" Selected	

setup load lan

Description

Loads the settings for LAN connection.

Syntax

setup load lan

Selective Parameter

None

Typed Parameter

None

Return Value

setup lan

[IPv4 LAN1] DHCP Mode

Refer to “Selective Parameter” section of “setup save lan” command.

[IPv4 LAN1] LAN Mode

Refer to “Selective Parameter” section of “setup save lan” command.

[IPv4 LAN1] PPPoE

Refer to “Selective Parameter” section of “setup save lan” command.

[IPv4 LAN1] Fixed IP for PPPoE

Refer to “Selective Parameter” section of “setup save lan” command.

[IPv4 LAN1]

DNS for a PPPoE Connection

Refer to “Selective Parameter” section of “setup save lan” command.

[IPv4 LAN1] NAT Mode

Refer to “Selective Parameter” section of “setup save lan” command.

[IPv4 LAN1] Host Name

[IPv4 LAN1] IP Address

[IPv4 LAN1] Network Mask

[IPv4 LAN1] Gateway Address

[IPv4 LAN1] Primary DNS Address

[IPv4 LAN1] Secondary DNS Address

[IPv4 LAN1] PPPoE User Name

[IPv4 LAN1] PPPoE Password

[IPv4 LAN1] Fixed IP Address for PPPoE	
[IPv4 LAN1] Primary DNS Address for PPPoE	
[IPv4 LAN1] Secondary DNS Address for PPPoE	
[IPv4 LAN1] WAN IP Address	
[IPv4 LAN1] SNMP Trap Destination	
[IPv4 LAN1] SNMP Community	
[IPv4 LAN1] SNMP Machine Info	
[IPv4 LAN1] SNMP Machine Location	
[IPv4 LAN1] SNMP Admin	
[IPv4 LAN2] DHCP Mode	Refer to “Selective Parameter” section of “setup save lan” command.
[IPv4 LAN2] LAN Mode	Refer to “Selective Parameter” section of “setup save lan” command.
[IPv4 LAN2] Host Name	
[IPv4 LAN2] IP Address	
[IPv4 LAN2] Network Mask	
[IPv4 LAN2] Gateway Address	
[IPv6 LAN1] DHCP Mode	Refer to “Selective Parameter” section of “setup save lan” command.
[IPv6 LAN1] LAN Mode	Refer to “Selective Parameter” section of “setup save lan” command.
[IPv6 LAN1] PPPoE	Refer to “Selective Parameter” section of “setup save lan” command.
[IPv6 LAN1] Fixed IP for PPPoE	Refer to “Selective Parameter” section of “setup save lan” command.
[IPv6 LAN1] DNS for a PPPoE Connection	Refer to “Selective Parameter” section of “setup save lan” command.
[IPv6 LAN1] IP Address	
[IPv6 LAN1] Prefix Length	
[IPv6 LAN1] Gateway Address	
[IPv6 LAN1] Primary DNS Address	
[IPv6 LAN1] Secondary DNS Address	
[IPv6 LAN1] PPPoE User Name	

[IPv6 LAN1] PPPoE Password

[IPv6 LAN1] Fixed IP Address for PPPoE

[IPv6 LAN1] Primary DNS Address for PPPoE

[IPv6 LAN1] Secondary DNS Address for PPPoE

[IPv6 LAN2] DHCP Mode

Refer to “Selective Parameter” section of “setup save lan” command.

[IPv6 LAN2] LAN Mode

Refer to “Selective Parameter” section of “setup save lan” command.

[IPv6 LAN2] IP Address

[IPv6 LAN2] Prefix Length

[IPv6 LAN2] Gateway Address

setup load h323

Description

Loads the H.323 settings.

Syntax

setup load h323

Selective Parameter

None

Typed Parameter

None

Return Value

setup h323

[IPv4 LAN1] Gatekeeper Mode

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1] NAT/Firewall Traversal

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1]

Adaptive Rate Control (ARC)

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1]

Auto Bandwidth Detection

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1]

Packet Resend Request (ARQ)

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1] ARQ Buffering Time

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1]

Forward Error Correction (FEC)

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1] FEC Redundancy

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1]

Audio Duplex Transmission

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1] Re-Order

Refer to “Selective Parameter” section of “setup save h323” command.

[IPv4 LAN1] Re-Order Buffer	Refer to “Selective Parameter” section of “setup save h323” command.
[IPv4 LAN1] Shaping	Refer to “Selective Parameter” section of “setup save h323” command.
[IPv4 LAN1] Gatekeeper IP Address	
[IPv4 LAN1] Gatekeeper User Name	
[IPv4 LAN1] Gatekeeper User Number	
[IPv4 LAN1] Q.931 Port Number	
[IPv4 LAN1] H.245 Port Number	
[IPv4 LAN1] TCP Port Number	
[IPv4 LAN1] UDP Port Number	
[IPv4 LAN1] ARQ Buffering Time	
[IPv4 LAN1] Re-Order Buffer Rate	
[IPv6 LAN1] Gatekeeper Mode	Refer to “Selective Parameter” section of “setup save h323” command.
[IPv6 LAN1] NAT/Firewall Traversal	Refer to “Selective Parameter” section of “setup save h323” command.
[IPv6 LAN1] Gatekeeper IP Address	
[IPv6 LAN1] Gatekeeper User Name	
[IPv6 LAN1]Gatekeeper User Number	

setup load rtp-rtcp

Description

Loads the RTP/RTCP settings.

Syntax

```
setup load rtp-rtcp
```

Selective Parameter

None

Typed Parameter

None

Return Value

setup rtp-rtcp

RTP/RTCP UDP Port Number

MTU Size

setup load tos

Description

Loads the TOS settings.

Syntax

setup load tos

Selective Parameter

None

Typed Parameter

None

Return Value

setup tos

[TOSVIDEO] TOS Definition	Refer to “Selective Parameter” section of “setup save tosvideo” command.
[TOSVIDEO] Low Delay	Refer to “Selective Parameter” section of “setup save tosvideo” command.
[TOSVIDEO] High Throughput	Refer to “Selective Parameter” section of “setup save tosvideo” command.
[TOSVIDEO] High Reliability	Refer to “Selective Parameter” section of “setup save tosvideo” command.
[TOSVIDEO] Minimum Cost	Refer to “Selective Parameter” section of “setup save tosvideo” command.
[TOSVIDEO] IP Precedence	
[TOSVIDEO] DSCP Value	
[TOSAUDIO] TOS Definition	Refer to “Selective Parameter” section of “setup save tosaudio” command.
[TOSAUDIO] Low Delay	Refer to “Selective Parameter” section of “setup save tosaudio” command.
[TOSAUDIO] High Throughput	Refer to “Selective Parameter” section of “setup save tosaudio” command.
[TOSAUDIO] High Reliability	Refer to “Selective Parameter” section of “setup save tosaudio” command.

[TOSAUDIO] Minimum Cost	Refer to “Selective Parameter” section of “setup save tosaudio” command.
[TOSAUDIO] IP Precedence	
[TOSAUDIO] DSCP Value	
[TOSPRESEN] TOS Definition	Refer to “Selective Parameter” section of “setup save tospresen” command.
[TOSPRESEN] Low Delay	Refer to “Selective Parameter” section of “setup save tospresen” command.
[TOSPRESEN] High Throughput	Refer to “Selective Parameter” section of “setup save tospresen” command.
[TOSPRESEN] High Reliability	Refer to “Selective Parameter” section of “setup save tospresen” command.
[TOSPRESEN] Minimum Cost	Refer to “Selective Parameter” section of “setup save tospresen” command.
[TOSPRESEN] IP Precedence	
[TOSPRESEN] DSCP Value	
[TOSCAMERA] TOS Definition	Refer to “Selective Parameter” section of “setup save toscamera” command.
[TOSCAMERA] Low Delay	Refer to “Selective Parameter” section of “setup save toscamera” command.
[TOSCAMERA] High Throughput	Refer to “Selective Parameter” section of “setup save toscamera” command.
[TOSCAMERA] High Reliability	Refer to “Selective Parameter” section of “setup save toscamera” command.
[TOSCAMERA] Minimum Cost	Refer to “Selective Parameter” section of “setup save toscamera” command.
[TOSCAMERA] IP Precedence	
[TOSCAMERA] DSCP Value	

setup load sip

Description

Loads the SIP1 settings.

Syntax

setup load sip1

Selective Parameter

None

Typed Parameter

None

Return

setup sip1

[IPv4 LAN1] SIP Server

Refer to “Selective Parameter” section of “setup save sip” command.

[IPv4 LAN1] Transport Protocol

Refer to “Selective Parameter” section of “setup save sip genreg” command.

[IPv4 LAN1] DTMF*

Refer to “Selective Parameter” section of “setup save sip genreg” command.

[IPv4 LAN1] Port Number

[IPv4 LAN1] SIP Domain

[IPv4 LAN1] Registration User Name

[IPv4 LAN1] Password

[IPv4 LAN1] SIP Server Address

[IPv4 LAN1] SIP Server Port

[IPv4 LAN1] Transport Protocol

Refer to “Selective Parameter” section of “setup save sip-gen” command.

[IPv4 LAN1] DTMF**

Refer to “Selective Parameter” section of “setup save sip gen” command.

[IPv4 LAN1] Port Number

[IPv4 LAN1] SIP Domain

[IPv6 LAN1] SIP Server *

Refer to “Selective Parameter” section of “setup save ipv6lan1-sip” command.

[IPv6 LAN1]Transport Protocol *	Refer to “Selective Parameter” section of “setup save ipv6lan1-sip-genreg” command.
[IPv6 LAN1] DTMF*	Refer to “Selective Parameter” section of “setup save ipv6lan1-sip-genreg” command.
[IPv6 LAN1] Port Number *	
[IPv6 LAN1] SIP Domain *	
[IPv6 LAN1] Registration User Name *	
[IPv6 LAN1] Password *	
[IPv6 LAN1] SIP Server Address *	
[IPv6 LAN1] SIP Server Port *	
[IPv6 LAN1] Transport Protocol **	Refer to “Selective Parameter” section of “setup save ipv6lan1-sip-gen” command.
[IPv6 LAN1] DTMF**	Refer to “Selective Parameter” section of “setup save ipv6lan1-sip-gen” command.
[IPv6 LAN1] Port Number **	
[IPv6 LAN1] SIP Domain **	

*Required when “sip-genreg”(the SIP setting with the SIP server) is configured.

** Required when “sip-gen”(the SIP setting without the SIP server) is configured.

setup load isdn

Description

Configures the settings for ISDN lines.

Syntax

setup load isdn

Selective Parameter

None

Typed Parameter

None

Return Value

setup isdn

Protocol

Refer to “Selective Parameter” section of “setup save isdn” command.

Country/Region

Refer to APPENDIX-E “Country/Region List.”

[ISDN1] Area Code 1

[ISDN1] Area Code 2

[ISDN1] Line Number 1

[ISDN1] Line Number 2

[ISDN1] Sub Address 1

[ISDN1] Sub Address 2

[ISDN1] SPIDCode 1

[ISDN1] SPID Code 2

:

With respect to [ISDN2] to [ISDN6], the same return values as [ISDN1] are obtained.

setup load annotation

Description

Loads the annotation settings.

Syntax

setup load annotation

Selective Parameter

None

Typed Parameter

None

Return Value

setup annotation

Enable	Refer to “Selective Parameter” section of “setup save annotation” command.
Color	Refer to “Selective Parameter” section of “setup save annotation” command.
Line Density	Refer to “Selective Parameter” section of “setup save annotation” command.

setup load camera

Description

Loads the camera settings.

Syntax

setup load camera

Selective Parameter

None

Typed Parameter

None

Return Value

setup camera

BrightFace

Refer to “Selective Parameter” section of “setup save camera” command.

Noise Reduction Filter

Refer to “Selective Parameter” section of “setup save camera” command.

Fade In

Refer to “Selective Parameter” section of “setup save camera” command.

Second Camera Input

Refer to “Selective Parameter” section of “setup save camera” command.

Image Flip for First Camera

Refer to “Selective Parameter” section of “setup save camera” command.

Image Flip for Second Camera

Refer to “Selective Parameter” section of “setup save camera” command.

setup load general

Description

Loads the general settings.

Syntax

setup load general

Selective Parameter

None

Typed Parameter

None

Return Value

setup general

Standby Mode	Refer to “Selective Parameter” section of “setup save general” command.
Last Number Registration	Refer to “Selective Parameter” section of “setup save general” command.
Control by Far End	Refer to “Selective Parameter” section of “setup save general” command.
Language	Refer to “Selective Parameter” section of “setup save general” command.
System LED Brightness	Refer to “Selective Parameter” section of “setup save general” command.
Camera LED Brightness	Refer to “Selective Parameter” section of “setup save general” command.
RF Remote Control Reception	Refer to “Selective Parameter” section of “setup save general” command.
NTP	Refer to “Selective Parameter” section of “setup save general” command.
Time Zone	Refer to “Selective Parameter” section of “setup save general” command.
Clock Display Pattern	Refer to “Selective Parameter” section of “setup save general” command.

Clock Display	Refer to “Selective Parameter” section of “setup save general” command.
Local Terminal Name	Refer to “Selective Parameter” section of “setup save general” command.
Number Display	Refer to “Selective Parameter” section of “setup save general” command.
Terminal Status	Refer to “Selective Parameter” section of “setup save general” command.
Warning Messages	Refer to “Selective Parameter” section of “setup save general” command.
IPELA Logo Display	(For next version)
Connect Button Display	Refer to “Selective Parameter” section of “setup save general” command.
Phone Book Button Display	Refer to “Selective Parameter” section of “setup save general” command.
History Button Display	Refer to “Selective Parameter” section of “setup save general” command.
Detailed Button Display	Refer to “Selective Parameter” section of “setup save general” command.
Camera Button Display	Refer to “Selective Parameter” section of “setup save general” command.
Tools Button Display	Refer to “Selective Parameter” section of “setup save general” command.
One-touch Dial Buttons Display	Refer to “Selective Parameter” section of “setup save general” command.
Direct Dial Display	Refer to “Selective Parameter” section of “setup save general” command.
Video Input Display	Refer to “Selective Parameter” section of “setup save general” command.
Audio Input Display	Refer to “Selective Parameter” section of “setup save general” command.
Audio Level Meter	Refer to “Selective Parameter” section of “setup save general” command.
Volume	Refer to “Selective Parameter” section of “setup save general” command.

LAN Status	Refer to “Selective Parameter” section of “setup save general” command.
ISDN Status	Refer to “Selective Parameter” section of “setup save general” command.
Home Display	Refer to “Selective Parameter” section of “setup save general” command.
Display Time in Connection	Refer to “Selective Parameter” section of “setup save general” command.
Terminal Name Display	Refer to “Selective Parameter” section of “setup save general” command.
Guide	Refer to “Selective Parameter” section of “setup save general” command.
Display Indicator	Refer to “Selective Parameter” section of “setup save general” command.
Communication Mode Display	Refer to “Selective Parameter” section of “setup save general” command.
Display On-Screen Keyboard	Refer to “Selective Parameter” section of “setup save general” command.
Menu Transparency	Refer to “Selective Parameter” section of “setup save general” command.
F1 Key In Communication	Refer to “Selective Parameter” section of “setup save general” command.
F3 Key In Communication	Refer to “Selective Parameter” section of “setup save general” command.
F4 Key In Communication	Refer to “Selective Parameter” section of “setup save general” command.
Local Terminal Name	
Time To Standby	
Primary NTP Server	
Secondary NTP Server	

setup load admin

Description

Loads the administrator settings.

Syntax

setup load admin

Selective Parameter

None

Typed Parameter

None

Return Value

setup admin

Setup Password (Line I/F)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (Dial)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (Answer)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (MCU)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (IP Mode)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (SIP Mode)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (ISDN Mode)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (Audio)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (Video)	Refer to “Selective Parameter” section of “setup save admin” command.

Setup Password (LAN)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (QoS)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (TOS)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (SIP)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (ISDN Mode)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (General)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (Administrator)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (Annotation)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (Camera)	Refer to “Selective Parameter” section of “setup save admin” command.
Setup Password (Encryption)	Refer to “Selective Parameter” section of “setup save admin” command.
Streaming	Refer to “Selective Parameter” section of “setup save admin” command.
Recording	Refer to “Selective Parameter” section of “setup save admin” command.
Video Rate	Refer to “Selective Parameter” section of “setup save admin” command.
WEB Monitor	Refer to “Selective Parameter” section of “setup save admin” command.
WEB Access	Refer to “Selective Parameter” section of “setup save admin” command.
TELNET Access	Refer to “Selective Parameter” section of “setup save admin” command.
SSH Access	Refer to “Selective Parameter” section of “setup save admin” command.
Use History	Refer to “Selective Parameter” section of “setup save admin” command.

AMX Device Discovery	Refer to “Selective Parameter” section of “setup save admin“ command.
1080i Mode	Refer to “Selective Parameter” section of “setup save admin“ command.
Auto Dialing	Refer to “Selective Parameter” section of “setup save admin“ command.
Auto Restore	Refer to “Selective Parameter” section of “setup save admin“ command.
Setup Password(Shared Phone Book)	Refer to “Selective Parameter” section of “setup save admin“ command.
Setup Password(Home Menu)	Refer to “Selective Parameter” section of “setup save admin“ command.
Internet Protocol	Refer to “Selective Parameter” section of “setup save admin“ command.
KIOSK Mode	Refer to “Selective Parameter” section of “setup save admin“ command.
Start-up Logo	Refer to “Selective Parameter” section of “setup save admin“ command.
Background of Home Screen	Refer to “Selective Parameter” section of “setup save admin“ command.
IPv4 Multicast Address	
Audio Port Number	
Video Port Number	
Multicast Hop Number	
AMX Hop	
IPv6 Multicast Address	

setup load encryption

Description

Loads the encryption settings.

Syntax

setup load encryption

Selective Parameter

None

Typed Parameter

None

Return Value

setup encryption

Encryption Mode Refer to “Selective Parameter” section of “setup save encryption” command.

time(1)

Description

Configures the time settings.

Syntax

time /DATE/TIME/

Selective Parameter

None

Typed Parameter

DATE : Enter the current date (MM-DD-YYYY).

TIME : Enter the current clock (HH:MM:SS) .

Return Value

time complete

Examples

In case of setting the date and time to January 1, 2009 and 13h00m00s.

```
time /01-01-2009/13:00:00/
```

time(2)

Description

Checks the date/time saved in the main unit.

Syntax

time

Selective Parameter

None

Typed Parameter

None

Return Value

time /MM-DD-YYYY/HH:MM:SS/

list save {new,1-1000} base

Description

Registers new entries (up to 1000 entries) in the phone book. (When “new” is specified, an unused number is automatically assigned.)

Syntax

```
list save {new,1-1000} base {lan,bri,speech,sip}
{prefix-off,prefix-a,prefix-b,prefix-c} {prefixlan-on,prefixlan-off}
{thumbnail-non,thumbnail-person,thumbnail-personstv,thumbnail-personpc,
thumbnail-persondesk,thumbnail-room,thumbnail-buildings}
/GRP_NUM/NAME/ADDR_1/ADDR_2/ADDR_3/ADDR_4/ADDR_5/ADDR_6/
```

Selective Parameter

Line I/F

- lan : Selects LAN as line interface for dialing.
- bri : Selects ISDN as line interface for dialing.
- speech : Selects Telephone as line interface for dialing.
- sip : Selects SIP as line interface for dialing.

BRI Prefix Select

- prefix-off : Select when you are not using a prefix number.
- prefix-a : Select when you use the prefix set in “PREFIX-A”.
- prefix-b : Select when you use the prefix set in “PREFIX-B”.
- prefix-c : Select when you use the prefix set in “PREFIX-C”.

LAN Prefix Select

- prefixlan-off : Select when you are not using LAN prefix.
- prefixlan-on : Select when you use LAN prefix.

Thumbnail

- thumbnail-non : Does not display any image on the phonebook as thumbnail.
- thumbnail-person : Specifies “Thumbnail A” (Also see APPENDIX-D.)
- thumbnail-personstv : Specifies “Thumbnail B” (Also see APPENDIX-D.)
- thumbnail-personpc : Specifies “Thumbnail C” (Also see APPENDIX-D.)
- thumbnail-persondesk : Specifies “Thumbnail D” (Also see APPENDIX-D.)
- thumbnail-room : Specifies “Thumbnail E” (Also see APPENDIX-D.)
- thumbnail-buildings : Specifies “Thumbnail F” (Also see APPENDIX-D.)

Typed Parameter

GRP_NUM :	Enter the group number. (0,1 to 100)
NAME :	Enter the name of a remote party. (up to 39 bytes)
ADDR_1 :	Enter the IP address 1 (or line number 1) of a remote party depending on the line interface you select. (up to 39 bytes)
ADDR_2 :	Enter the IP address 2 (or line number 2) of a remote party depending on the line interface you select. (up to 39 bytes)
ADDR_3 :	Enter the IP address 3 (or line number 3) of a remote party depending on the line interface you select. (up to 39 bytes)
ADDR_4 :	Enter the IP address 4 (or line number 4) of a remote party depending on the line interface you select. (up to 39 bytes)
ADDR_5 :	Enter the IP address 5 (or line number 5) of a remote party depending on the line interface you select. (up to 39 bytes)
ADDR_6 :	Enter the IP address 6 (or line number 6) of a remote party depending on the line interface you select. (up to 39 bytes)

Return Value

list save complete {1-1000}

Examples

In case of registering a new entry under a name of “SONY01” with the following items.

Line I/F: LAN
 LAN Prefix Select: Disable
 Thumbnail: Not specified
 Group Number: Not specified
 IP Address of a remote party: 192.168.100.10

```
list save new base lan prefixlan-off thumbnail-non
/0/SONY01/192.168.100.10/
```

In case of registering new entry under the name of "SONY02" with the following items as No.5 of the phone book.

Line I/F: ISDN

BRI Prefix Select: Prefix-A

Thumbnail: Thumbnail A

Group Number: 1

IP Address 1 of a remote party: 55551111

IP Address 2 of a remote party: 55552222

IP Address 3 of a remote party: 55553333

IP Address 4 of a remote party: 55554444

```
list save 5 base bri prefix-a thumbnail-person
/1/SONY02/55551111/55552222/55553333/55554444/
```

list save {1-1000} ip-comm

Description

Configures the IP communication settings for the phone book.

Syntax

```
list save {1-1000} ip-comm {inccal-sepa-on,inccal-sepa-off}
    [pptx-g711,pptx-g728,pptx-g722,pptx-mpeg4audio]
    [pprx-g711,pprx-g728,pprx-g722,pprx-mpeg4audio]
    {pp-fecc-on,pp-fecc-off}
    {h239-on,h239-off} {h239-rate-1-3,h239-rate-1-2,h239-rate-2-3}
    {pptx-scrnsz-auto,pptx-qcif,pptx-cif,pptx-4cif,pptx-wcif,pptx-w432p,
    pptx-w4cif,pptx-hd720}
    {pprx-scrnsz-auto,pprx-qcif,pprx-cif,pprx-4cif,pprx-wcif,pprx-w432p,
    pprx-w4cif,pprx-hd720}
    [pptx-h261,pptx-h263,pptx-h264] [pprx-h261,pprx-h263,pprx-h264]
    {pptx-autofps,pptx-15fps,pptx-30fps,pptx-60fps}
    {pprx-autofps,pprx-15fps,pprx-30fps,pprx-60fps}
    /TX BITRATE/RX BITRATE/
```

Selective Parameter

Individual Settings for Transmission/Reception

- inccal-sepa-on : Performs transmission and reception settings individually.
- inccal-sepa-off : Performs transmission and reception settings commonly.

Audio Mode For Transmission (You can select one or more.)

- pptx-g711 : Selects G.711 for the audio mode for transmission.
- pptx-g728 : Selects G.728 for the audio mode for transmission.
- pptx-g722 : Selects G.722 for the audio mode for transmission.
- pptx-mpeg4audio : Selects MPEG4 AAC for the audio mode for transmission.

Audio Mode For Reception (You can select one or more.)

- pprx-g711 : Selects G.711 for the audio mode for reception.
- pprx-g728 : Selects G.728 for the audio mode for reception.
- pprx-g722 : Selects G.722 for the audio mode for reception.
- pprx-mpeg4audio : Selects MPEG4 AAC for the audio mode for reception.

Far End Camera Control

- pp-fecc-on : Enables the control of far end cameras.

pp-fecc-off : Disables the control of far end cameras.

H.239 Presentation

h239-on : Enables the presentation mode based on the H.239 standard.

h239-off : Disables the presentation mode based on the H.239 standard.

H.239 Ratio

h239-rate-1-3 : Use 1/3 of the total bandwidth for H.239 presentation data transmissions.

h239-rate-1-2 : Use 1/2 of the total bandwidth for H.239 presentation data transmissions.

h239-rate-2-3 : Use 2/3 of the total bandwidth for H.239 presentation data transmissions.

Screen Size To Be Transmitted

pptx-scrnsz-auto : Automatically determines the screen size to be transmitted.

pptx-qcif : Selects QCIF for the screen size to be transmitted.

pptx-cif : Selects CIF for the screen size to be transmitted.

pptx-4cif : Selects 4CIF for the screen size to be transmitted.

pptx-wcif : Selects WCIF for the screen size to be transmitted.

pptx-w432p : Selects W432P for the screen size to be transmitted.

pptx-w4cif : Selects W4CIF for the screen size to be transmitted.

pptx-hd720 : Selects 720(HD) for the screen size to be transmitted.

Screen Size To Be Received

pprx-scrnsz-auto : Automatically determines the screen size to be received.

pprx-qcif : Selects QCIF for the screen size to be received.

pprx-cif : Selects CIF for the screen size to be received.

pprx-4cif : Selects 4CIF for the screen size to be received.

pprx-wcif : Selects WCIF for the screen size to be received.

pprx-w432p : Selects W432P for the screen size to be received.

pprx-w4cif : Selects W4CIF for the screen size to be received.

pprx-hd720 : Selects 720(HD) for the screen size to be received.

Video Mode For Transmission (You can select one or more.)

pptx-h261 : Selects H.261 for the compression format of pictures to be transmitted.

pptx-h263 : Selects H.263 for the compression format of pictures to be transmitted.

pptx-h264 : Selects H.264 for the compression format of pictures to be transmitted.

Video Mode For Reception (You can select one or more.)

pplx-h261 : Selects H.261 for the compression format of pictures to be received.

pplx-h263 : Selects H.263 for the compression format of pictures to be received.

pplx-h264 : Selects H.264 for the compression format of pictures to be received.

Video Frame During Transmission

pptx-autofps : Automatically determines the number of video frames during transmission.

pptx-15fps : Selects 15fps for the number of video frames during transmission.

pptx-30fps : Selects 30fps for the number of video frames during transmission.

pptx-60fps : Selects 60fps for the number of video frames during transmission.

Video Frame During Reception

pplx-autofps : Automatically determines the number of video frames during reception

pplx-15fps : Selects 15fps for the number of video frames during reception.

pplx-30fps : Selects 30fps for the number of video frames during reception.

pplx-60fps : Selects 60fps for the number of video frames during reception.

Typed Parameter

TX BITRATE : Enter the transmission bit rate (Unit: kbps).

RX BITRATE : Enter the reception bit rate (Unit: kbps).

Return Value

list save complete {1-1000}

list save {1-1000} isdn-comm

Description

Configures the ISDN communication settings for the phone book

Syntax

```
list save {1-1000} isdn-comm {ppmcpu-sepa-on,ppmcpu-sepa-off}
    {pptx-1b,pptx-2b,pptx-3b,pptx-4b, pptx-5b,pptx-6b,pptx-8b,pptx-12b}
    {pprx-1b,pprx-2b,pprx-3b,pprx-4b, pprx-5b,pprx-6b,pprx-8b,pprx-12b}
    [pp-g711,pp-g728,pp-g722,pp-mpeg4audio]
    {pp-fecc-on,pp-fecc-off}
    {h239-on,h239-off} {h239-rate-1-3,h239-rate-1-2,h239-rate-2-3}
    {restrict-auto,restrict-56k}
    {pp-scrnsz-auto,pp-qcif,pp-cif,pp-4cif,pp-wcif,pp-w432p,pp-w4cif,pp-hd720}
    [pp-h261,pp-h263,pp-h264] {pp-autofps,pp-15fps,pp-30fps,pp-60fps}
```

Selective Parameter

Individual Setting for P-P/MCU

- ppmcpu-sepa-on : Performs point-to-point and multipoint connection settings individually.
- ppmcpu-sepa-off : Performs point-to-point and multipoint connection settings commonly.

ISDN Bandwidth (Dial)

- pptx-1b : Selects 1B(64K) for the number of ISDN lines used for dialing.
- pptx-2b : Selects 2B(128K) for the number of ISDN lines used for dialing.
- pptx-3b : Selects 3B(192K) for the number of ISDN lines used for dialing.
- pptx-4b : Selects 4B(256K) for the number of ISDN lines used for dialing.
- pptx-5b : Selects 5B(320K) for the number of ISDN lines used for dialing.
- pptx-6b : Selects 6B(384K) for the number of ISDN lines used for dialing.
- pptx-8b : Selects 8B(512K) for the number of ISDN lines used for dialing.
- pptx-12b : Selects 12B(768K) for the number of ISDN lines used for dialing.

ISDN Bandwidth (Answer)

- pprx-1b : Selects 1B(64K) for the number of ISDN lines used for answering.
- pprx-2b : Selects 2B(128K) for the number of ISDN lines used for answering.

- pprx-3b : Selects 3B(192K) for the number of ISDN lines used for answering.
 - pprx-4b Selects 4B(256K) for the number of ISDN lines used for answering.
 - pprx-5b : Selects 5B(320K) for the number of ISDN lines used for answering.
 - pprx-6b : Selects 6B(384K) for the number of ISDN lines used for answering.
 - pprx-8b : Selects 8B(512K) for the number of ISDN lines used for answering.
 - pprx-12b : Selects 12B(768K) for the number of ISDN lines used for answering.
- Audio Mode (You can select one or more.)
- pp-g711 : Selects G.711.
 - pp-g728 : Selects G.728.
 - pp-g722 : Selects G.722.
 - pp-mpeg4audio : Selects MPEG4 AAC.
- Far End Camera Control
- pp-fecc-on : Enables the control of far end cameras.
 - pp-fecc-off : Disables the control of far end cameras.
- H.239 Presentation
- h239-on : Enables the presentation mode based on the H.239 standard.
 - h239-off : Disables the presentation mode based on the H.239 standard.
- H.239 Ratio
- h239-rate-1-3 : Use 1/3 of the total bandwidth for H.239 presentation data transmissions.
 - h239-rate-1-2 : Use 1/2 of the total bandwidth for H.239 presentation data transmissions.
 - h239-rate-2-3 : Use 2/3 of the total bandwidth for H.239 presentation data transmissions.
- Restrict
- restrict-auto : Automatically determines the ISDN transmission rate.
 - restrict-56k : Restricts the ISDN transmission rate to 56k.

Screen Size

pp-scrnsz-auto :	Automatically determines the screen size.
pp-qcif :	Selects QCIF.
pp-cif :	Selects CIF.
pp-4cif :	Selects 4CIF.
pp-wcif :	Selects WCIF.
pp-w432p :	Selects W432P.
pp-w4cif :	Selects W4CIF.
pp-hd720 :	Selects 720(HD).

Video Mode (You can select one or more.)

pp-h261 :	Selects H.261.
pp-h263 :	Selects H.263.
pp-h264 :	Selects H.264.

Video Frame

pp-autofps :	Automatically determines the number of video frames.
pp-15fps :	Selects 15fps.
pp-30fps :	Selects 30fps.
pp-60fps :	Selects 60fps.

Typed Parameter

None

Return Value

list save complete {1-1000}

list save {1-1000} sip-comm

Description

Configures the SIP communication settings for the phone book.

Syntax

```
list save {1-1000} sip-comm [g711,728,g722] {fecc-on,fecc-off}
{scrsz-auto,qcif,cif,4cif,wcif,w432p,w4cif,hd720}
[h261,h263,h264,mpeg4video,novideo] {autofps,15fps,30fps,60fps}
/BITRATE/COMM BITRATE/
```

Selective Parameter

Audio Mode (You can select one or more.)

g711 :	Selects G.711. (Mandatory parameter)
g728 :	Selects G.728.
g722 :	Selects G.722.

Far End Camera Control

fecc-on :	Enables the control of far end cameras.
fecc-off :	Disables the control of far end cameras.

Screen Size

scrsz-auto :	Automatically determines the screen size.
qcif :	Selects QCIF.
cif :	Selects CIF.
4cif :	Selects 4CIF.
wcif :	Selects WCIF.
w432p :	Selects W432P.
w4cif :	Selects W4CIF.
hd720 :	Selects 720(HD).

Video Mode (You can select one or more.)

h261 :	Selects H.261.
h263 :	Selects H.263.
h264 :	Selects H.264.
mpeg4video	Selects MPEG4.
novideo :	Selects no video. (Other mode is canceled.)

Video Frame

autofps :	Automatically determines the number of video frames.
15fps :	Selects 15fps.
30fps :	Selects 30fps.
60fps :	Selects 60fps.

Typed Parameter

BITRATE :	Enter the total bandwidth (Unit: kbps,16 to 10240)
COMM BITRATE :	Enter the communication bit rate (Unit: kbps,16 to 10240)

Return Value

list save complete {1-1000}

list load {1-1000} base

Description

Loads the basic setting of the specified list number in the phone book.

Syntax

list load {1-1000} base

Selective Option

None

Typed Option

Note

Return Value

list {1-1000} base

Line I/F

Refer to “Selective Parameter” section of “list save {1-1000} base” command.

Line I/F for MCU 1

Refer to “Selective Parameter” section of “list save {1-1000} base” command.

Line I/F for MCU 2

Refer to “Selective Parameter” section of “list save {1-1000} base” command.

Line I/F for MCU 3

Refer to “Selective Parameter” section of “list save {1-1000} base” command.

Line I/F for MCU 4

Refer to “Selective Parameter” section of “list save {1-1000} base” command.

Line I/F for MCU 5

Refer to “Selective Parameter” section of “list save {1-1000} base” command.

BRI Prefix Select

Refer to “Selective Parameter” section of “list save {1-1000} base” command.

LAN Prefix Select

Refer to “Selective Parameter” section of “list save {1-1000} base” command.

Thumbnail

Refer to “Selective Parameter” section of “list save {1-1000} base” command.

Group Number

Name of a remote party

IP address/Line number 1 of
a remote party

IP address/Line number 2 of
a remote party

IP address/Line number 3 of
a remote party

IP address/Line number 4 of
a remote party

IP address/Line number 5 of
a remote party

IP address/Line number 6 of
a remote party

list load {1-1000} ip-comm

Description

Loads the LAN communication settings in the phone book.

Syntax

list load {1-1000} ip-comm

Selective Parameter

None

Typed Parameter

None

Return Value

list {1-1000} ip-comm

Individual Settings for Transmission/ Reception	Refer to “Selective Parameter” section of “list save ip-comm” command.
Individual settings for P-P/MCU	Refer to “Selective Parameter” section of “list save ip-comm” command.

Audio Mode For Transmission (P-P)	Refer to “Selective Parameter” section of “list save ip-comm” command.
-----------------------------------	--

Audio Mode For Reception (P-P)	Refer to “Selective Parameter” section of “list save ip-comm” command.
--------------------------------	--

Audio Mode For Transmission (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
-----------------------------------	--

Audio Mode For Reception (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
--------------------------------	--

Far End Camera Control(P-P)	Refer to “Selective Parameter” section of “list save ip-comm” command.
-----------------------------	--

Far End Camera Control (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
------------------------------	--

H.239 Presentation	Refer to “Selective Parameter” section of “list save ip-comm” command.
H.239 Rate	Refer to “Selective Parameter” section of “list save ip-comm” command.
Screen Size To Be Transmitted (P-P)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Screen Size To Be Received (P-P)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Screen Size To Be Transmitted (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Screen Size To Be Received (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Video Mode For Transmission (P-P)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Video Mode For Reception (P-P)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Video Mode For Transmission (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Video Mode For Reception (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Video Frame During Transmission (P-P)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Video Frame During Reception (P-P)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Video Frame During Transmission (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Video Frame During Reception (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
All Bandwidth (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.

Transmission Bit Rate (P-P)	Unit: kbps
Reception Bit Rate (P-P)	Unit: kbps
Transmission Bit Rate (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.
Reception Bit Rate (MCU)	Refer to “Selective Parameter” section of “list save ip-comm” command.

list load {1-1000} isdn-comm

Description

Loads the ISDN communication settings in the phone book.

Syntax

list load {1-1000} isdn-comm

Selective Parameter

None

Typed Parameter

None

Return Value

list {1-1000} isdn-comm	
Individual settings for P-P/MCU	Refer to “Selective Parameter” section of “list save isdn-comm” command.
ISDN Bandwidth (P-P transmission)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
ISDN Bandwidth (P-P reception)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
ISDN Bandwidth (MCU transmission)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
ISDN Bandwidth (MCU reception)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Audio Mode (P-P)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Audio Mode (MCU)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Far End Camera Control (P-P)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Far End Camera Control (MCU)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
H.239 Presentation	Refer to “Selective Parameter” section of “list save isdn-comm” command.

H.239 Rate	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Restrict	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Screen Size (P-P)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Screen Size (MCU)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Video Mode (P-P)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Video Mode (MCU)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Video Frame (P-P)	Refer to “Selective Parameter” section of “list save isdn-comm” command.
Video Frame (MCU)	Refer to “Selective Parameter” section of “list save isdn-comm” command.

list load {1-1000} sip-comm

Description

Loads the SIP communication settings in the phone book

Syntax

list load {1-1000} sip-comm

Selective Parameter

None

Typed Parameter

None

Return Value

list {1-1000} sip-comm

Audio Mode	Refer to “Selective Parameter” section of “list save sip-comm” command.
Far End Camera Control	Refer to “Selective Parameter” section of “list save sip-comm” command.
Screen Size	Refer to “Selective Parameter” section of “list save sip-comm” command.
Video Mode	Refer to “Selective Parameter” section of “list save sip-comm” command.
Video Frame	Refer to “Selective Parameter” section of “list save sip-comm” command.
All Bandwidth	Unit: kbps
Communication Bit Rate	Unit: kbps

list load index

Description

Displays the list numbers and index names in the phone book.

Syntax

list load index

Selective Parameter

None

Typed Parameter

None

Return Value

list index

List Number: Index Name

List Number: Index Name

:

(Up to 1000 entries are displayed, if registered.)

list delete {1-1000}

Description

Deletes the phone book information of the specified entry.

Syntax

list delete {1-1000}

Selective Parameter

None

Typed Parameter

None

Return Value

list delete complete {1-1000}

list delete all

Description

Deletes all the phone book entry.

Syntax

list delete all

Selective Parameter

None

Typed Parameter

None

Return Value

list delete complete all

spblist load {1-500}

Description

Loads the shared phone book information of the specified list number.

Syntax

spblist load {1-500}

Selective Parameter

None

Typed Parameter

None

Return Value

spblist {1-500}

Line I/F lan, bri, speech

Index Name

IP address/Line number of a
remote party

dial list {1-1000}

Description

Dials with the specified list number in the phone book.

Syntax

dial list {1-1000}

Selective Parameter

None

Typed Parameter

None

Return Value

[Notifying the connection status]

connect status

(in case of ISDN connection)

S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12

C01 C02 C03 C04 C05 C06 C07 C08 C09 C10 C11 C12

* S0x shows the port status code (See APPENDIX-A.), and C0x shows the port cause code. (See APPENDIX-B.)

(in case of H.323/SIP connection)

S01 S02 S03 S04 S05

C01 C02 C03 C04 C05

* S0x shows the point ID status code (See APPENDIX-A.), and C0x shows the point ID cause code. (See APPENDIX-B.)

[Notifying the completion of connection]

connect complete

[Notifying the connection fail]

disconnect CC

* CC shows the cause code (See APPENDIX-B).

dial splist {1-500}

Description

Dials with the specified list number in the shared phone book.

Syntax

dial splist {1-500}

Selective Parameter

None

Typed Parameter

None

Return Value

[Notifying the connection status]

connect status

(In case of ISDN connection)

S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12

C01 C02 C03 C04 C05 C06 C07 C08 C09 C10 C11 C12

* S0x shows the port status code (See APPENDIX-A.), and C0x shows the port cause code. (See APPENDIX-B.)

(In case of H.323/SIP connection)

S01 S02 S03 S04 S05

C01 C02 C03 C04 C05

* S0x shows the point ID status code (See APPENDIX-A.), and C0x shows the point ID cause code. (See APPENDIX-B.)

[Notifying the completion of connection]

connect complete

[Notifying the connection fail]

disconnect CC

* CC shows the cause code (See APPENDIX-B).

dial

Description

Dials manually.

Syntax

```
dial {lan,bri,speech,sip,multi,lan2,sip2}
{m1-lan,m1-bri,m1-speech,m1-sip,m1-lan2,m1-sip2}
{m2-lan,m2-bri,m2-speech,m2-sip,m2-lan2,m2-sip2}
{m3-lan,m3-bri,m3-speech,m3-sip,m3-lan2,m3-sip2}
{m4-lan,m4-bri,m4-speech,m4-sip,m4-lan2,m4-sip2}
{m5-lan,m5-bri,m5-speech,m5-sip,m5-lan2,m5-sip2}
{prefix-off,prefix-a,prefix-b,prefix-c} {prefixlan-off,prefixlan-on}
{ip-inccal-sepa-on, ip-inccal-sepa-off} {ip-ppmccu-sepa-on, ip-ppmccu-sepa-off}
[ip-pptx-g711,ip-pptx-g728,ip-pptx-g722,ip-pptx-mpeg4audio]
[ip-pprx-g711,ip-pprx-g728,ip-pprx-g722,ip-pprx-mpeg4audio]
[ip-mcutx-g711,ip-mcutx-g728,ip-mcutx-g722,ip-mcutx-mpeg4audio]
[ip-mcurx-g711,ip-mcurx-g728,ip-mcurx-g722,ip-mcurx-mpeg4audio]
{ip-pp-fecc-off,ip-pp-fecc-on} {ip-mcu-fecc-off,ip-mcu-fecc-on}
{ip-h239-off,ip-h239-on} {ip-h239-rate-1-3, ip-h239-rate-1-2, ip-h239-rate-2-3}
{ip-pptx-scrnsz-auto, ip-pptx-scrnsz-qcif, ip-pptx-scrnsz-cif,
ip-pptx-scrnsz-4cif, ip-pptx-scrnsz-wcif, ip-pptx-scrnsz-w432p,
ip-pptx-scrnsz-w4cif, ip-pptx-scrnsz-hd720}
{ip-pprx-scrnsz-auto, ip-pprx-scrnsz-qcif, ip-pprx-scrnsz-cif,
ip-pprx-scrnsz-4cif, ip-pprx-scrnsz-wcif, ip-pprx-scrnsz-w432p,
ip-pprx-scrnsz-w4cif, ip-pprx-scrnsz-hd720}
{ip-mcutx-scrnsz-auto, ip-mcutx-scrnsz-qcif, ip-mcutx-scrnsz-cif,
ip-mcutx-scrnsz-4cif, ip-mcutx-scrnsz-wcif, ip-mcutx-scrnsz-w432p,
ip-mcutx-scrnsz-w4cif,ip-mcutx-scrnsz-hd720}
{ip-mcurx-scrnsz-auto, ip-mcurx-scrnsz-qcif, ip-mcurx-scrnsz-cif,
ip-mcurx-scrnsz-4cif, ip-mcurx-scrnsz-wcif, ip-mcurx-scrnsz-w432p,
ip-mcurx-scrnsz-w4cif,ip-mcurx-scrnsz-hd720}
[ip-pptx-h261, ip-pptx-h263, ip-pptx-h264]
[ip-pprx-h261, ip-pprx-h263, ip-pprx-h264]
[ip-mcutx-h261, ip-mcutx-h263, ip-mcutx-h264]
[ip-mcurx-h261, ip-mcurx-h263, ip-mcurx-h264]
```

{ip-pptx-autofps, ip-pptx-15fps, ip-pptx-30fps, ip-pptx-60fps}
 {ip-pprx-autofps, ip-pprx-15fps, ip-pprx-30fps, ip-pprx-60fps}
 {ip-mcutx-autofps, ip-mcutx-15fps, ip-mcutx-30fps, ip-mcutx-60fps}
 {ip-mcurx-autofps, ip-mcurx-15fps, ip-mcurx-30fps, ip-mcurx-60fps}
 {isdn-ppmcu-sepa-on, isdn-ppmcu-sepa-off}
 {isdn-pptx-1b, isdn-pptx-2b, isdn-pptx-3b, isdn-pptx-4b,
 isdn-pptx-5b, isdn-pptx-6b, isdn-pptx-8b, isdn-pptx-12b}
 {isdn-mcutx-1b, isdn-mcutx-2b, isdn-mcutx-3b, isdn-mcutx-4b,
 isdn-mcutx-5b, isdn-mcutx-6b, isdn-mcutx-8b, isdn-mcutx-12b}
 [isdn-pp-g711,isdn-pp-g728,isdn-pp-g722,isdn-pp-mpeg4audio]
 [isdn-mcu-g711,isdn-mcu-g728,isdn-mcu-g722,isdn-mcu-mpeg4audio]
 {isdn-pp-fecc-off, isdn-pp-fecc-on} {isdn-mcu-fecc-off, isdn-mcu-fecc-on}
 {isdn-h239-off,isdn-h239-on}
 {isdn-h239-rate-1-3, isdn-h239-rate-1-2, isdn-h239-rate-2-3}
 {isdn-restrict-auto, isdn-restrict-56k}
 {isdn-pp-scrnsz-auto, isdn-pp-scrnsz-qcif, isdn-pp-scrnsz-cif,
 isdn-pp-scrnsz-4cif, isdn-pp-scrnsz-wcif, isdn-pp-scrnsz-w432p,
 isdn-pp-scrnsz-w4cif, isdn-pp-scrnsz-hd720}
 {isdn-mcu-scrnsz-auto, isdn-mcu-scrnsz-qcif, isdn-mcu-scrnsz-cif,
 isdn-mcu-scrnsz-4cif, isdn-mcu-scrnsz-wcif, isdn-mcu-scrnsz-w432p,
 isdn-mcu-scrnsz-w4cif,isdn-mcu-scrnsz-hd720}
 [isdn-pp-h261, isdn-pp-h263, isdn-pp-h264]
 [isdn-mcu-h261, isdn-mcu-h263, isdn-mcu-h264]
 {isdn-pp-autofps, isdn-pp-15fps, isdn-pp-30fps, isdn-pp-60fps}
 {isdn-mcu-autofps, isdn-mcu-15fps, isdn-mcu-30fps, isdn-mcu-60fps}
 [sip-g711,sip-g728,sip-g722] [sip-fecc-off, sip-fecc-on]
 {sip-scrnsz-auto, sip-scrnsz-qcif, sip-scrnsz-cif,
 sip-scrnsz-4cif, sip-scrnsz-wcif, sip-scrnsz-w432p,
 sip-scrnsz-w4cif, sip-scrnsz-hd720}
 [sip-h261, sip-h263, sip-mpeg4video, sip-h264, sip-novideo]
 {sip-autofps, sip-15fps, sip-30fps, sip-60fps}
 /ADDR_1/ADDR_2/ADDR_3/ADDR_4/ADDR_5/ADDR_6/
 TTL_LAN_MCURATE/PPTX_LAN_RATE/PPRX_LAN_RATE/
 MCUTX_LAN_RATE/MCURX_LAN_RATE/SIP_RATE/

Selective Parameter

Line I/F

lan :	Places a call over LAN.
bri :	Places a call over ISDN.
speech :	Places a telephone call.
sip :	Places a SIP call.
multi :	Places a multipoint call.
lan2 :	Places a call at LAN2. * For PCS-XG80/XA80

Line I/F for the 1st Point in Multipoint Connection

m1-lan :	Places a call to the 1st point over LAN.
m1-bri :	Places a call to the 1st point over ISDN.
m1-speech :	Places a telephone call to the 1st point.
m1-sip :	Places a SIP call to the 1st point.
m1-lan2 :	Places a call to the 1st point at LAN2.

Line I/F for the 2nd Point in Multipoint Connection

m2-lan :	Places a call to the 2nd point over LAN.
m2-bri :	Places a call to the 2nd point over ISDN.
m2-speech :	Places a telephone call to the 2nd point.
m2-lan2 :	Places a call to the 2nd point at LAN2.

Line I/F for the 3rd Point in Multipoint Connection

m3-lan :	Places a call to the 3rd point over LAN.
m3-bri :	Places a call to the 3rd point over ISDN.
m3-speech :	Places a telephone call to the 3rd point.
m3-lan2 :	Places a call to the 3rd point at LAN2.

Line I/F for the 4th Point in Multipoint Connection

m4-lan :	Places a call to the 4th point over LAN.
m4-bri :	Places a call to the 4th point over ISDN.
m4-speech :	Places a telephone call to the 4th point.
m4-lan2 :	Places a call to the 14th point at LAN2.

Line I/F for the 5th Point in Multipoint Connection

m5-lan :	Places a call to the 5th point over LAN.
m5-bri :	Places a call to the 5th point over ISDN.
m5-speech :	Places a telephone call to the 5th point.
m5-lan2 :	Places a call to the 5th point at LAN2.

Audio Mode for Transmission (You can select one or more.)

- ip-pptx-g711 : Selects G.711 for the audio mode for transmission. (Mandatory parameter)
- ip-pptx-g728 : Selects G.728 for the audio mode for transmission.
- ip-pptx-g722 : Selects G.722 for the audio mode for transmission.
- ip-pptx-mpeg4audio : Selects MPEG4 AAC for the audio mode for transmission.

BRI Prefix Select

- prefix-off : Select when you are not using a prefix number.
- prefix-a : Select when you use the prefix set in "BRI PREFIX-A".
- prefix-b : Select when you use the prefix set in "BRI PREFIX-B".
- prefix-c : Select when you use the prefix set in "BRI PREFIX-C".

LAN Prefix Select

- prefixlan-off : Select when you are not using LAN prefix.
- prefixlan-on : Select when you use LAN prefix.

[] IP Communication-related Parameters

Individual Settings for Transmission/Reception

- ip-inccal-sepa-on : Performs transmission and reception settings individually.
- ip-inccal-sepa-off : Performs transmission and reception settings commonly.

Individual Settings for P-P/MCU

- ip-ppmcu-sepa-on : Performs point-to-point and multipoint connection settings individually.
- ip-ppmcu-sepa-off : Performs point-to-point and multipoint connection settings simultaneously.

Audio Mode for Transmission (You can select one or more.)

- ip-pptx-g711 : Selects G.711 for the audio mode for transmission.
(Mandatory parameter)
- ip-pptx-g728 : Selects G.728 for the audio mode for transmission.
- ip-pptx-g722 : Selects G.722 for the audio mode for transmission.
- ip-pptx-mpeg4audio : Selects MPEG4 AAC for the audio mode for transmission.

Note:

G.711 is always selected.

Audio Mode For Reception (You can select one or more.)

- ip-pprx-g711 : Selects G.711 for the audio mode for reception.
(Mandatory parameter)
- ip-pprx-g728 : Selects G.728 for the audio mode for reception
- ip-pprx-g722 : Selects G.722 for the audio mode for reception
- ip-pprx-mpeg4audio : Selects MPEG4 AAC for the audio mode for reception

Note:

Available when Individual Settings for Transmission/Reception is set to On.

G.711 is always selected.

Audio Mode For Transmission in Multipoint Connection

(You can select one or more.)

- ip-mcutx-g711 : Selects G.711 for the audio mode for transmission in multipoint connection. (Mandatory parameter)
- ip-mcutx-g728 : Selects G.728 for the audio mode for transmission in multipoint connection.
- ip-mcutx-g722 : Selects G.722 for the audio mode for transmission in multipoint connection.
- ip-mcutx-mpeg4audio : Selects MPEG4 AAC for the audio mode for transmission in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

G.711 is always selected.

Audio Mode For Reception in Multipoint Connection

(You can select one or more.)

- ip-mcurx-g711 : Selects G.711 for the audio mode for reception in multipoint connection. (Mandatory parameter)

- ip-mcurx-g728 : Selects G.728 for the audio mode for reception in multipoint connection.
- ip-mcurx-g722 : Selects G.722 for the audio mode for reception in multipoint connection.
- ip-mcurx-mpeg4audio : Selects MPEG4 AAC for the audio mode for reception in multipoint connection.

Note:

Available when Individual Settings for both Transmission/Reception and P-P/MCU are set to On.

G.711 is always selected.

Far End Camera Control

- ip-pp-fecc-on : Enables the control of far end cameras.
- ip-pp-fecc-off : Disables the control of far end cameras.

Far End Camera Control in Multipoint Connection

- ip-mcu-fecc-on : Enables the control of far end cameras in multipoint connection.
- ip-mcu-fecc-off : Disables the control of far end cameras in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

H.239 Presentation

- ip-h239-on : Enables the presentation mode based on the H.239 standard.
- ip-h239-off : Disables the presentation mode based on the H.239 standard.

H.239 Ratio

- ip-h239-rate-1-3 : Use 1/3 of the total bandwidth for H.239 presentation data transmissions.
- ip-h239-rate-1-2 : Use 1/2 of the total bandwidth for H.239 presentation data transmissions.
- ip-h239-rate-2-3 : Use 2/3 of the total bandwidth for H.239 presentation data transmissions.

Screen Size To Be Transmitted

- ip-pptx-scrnsz-auto : Automatically determines the screen size to be transmitted.

ip-pptx-qcif :	Selects QCIF for the screen size to be transmitted.
ip-pptx-cif :	Selects CIF for the screen size to be transmitted.
ip-pptx-4cif :	Selects 4CIF for the screen size to be transmitted.
ip-pptx-wcif :	Selects WCIF for the screen size to be transmitted.
ip-pptx-w432p :	Selects W432P for the screen size to be transmitted.
ip-pptx-w4cif :	Selects W4CIF for the screen size to be transmitted.
ip-pptx-hd720 :	Selects 720(HD) for the screen size to be transmitted.

Screen Size To Be Received

ip-pprx-scrnsz-auto :	Automatically determines the screen size to be received.
ip-pprx-qcif :	Selects QCIF for the screen size to be received.
ip-pprx-cif :	Selects CIF for the screen size to be received.
ip-pprx-4cif :	Selects 4CIF for the screen size to be received.
ip-pprx-wcif :	Selects WCIF for the screen size to be received..
ip-pprx-w432p :	Selects W432P for the screen size to be received.
ip-pprx-w4cif :	Selects W4CIF for the screen size to be received.
ip-pprx-hd720 :	Selects 720(HD) for the screen size to be received.

Note:

Available when Individual Settings for Transmission/Reception is set to On.

Screen Size To Be Transmitted in Multipoint Connection

ip-mcutx-scrnsz-auto :	Automatically determines the screen size to be transmitted in multipoint connection.
ip-mcutx-qcif :	Selects QCIF for the screen size to be transmitted in multipoint connection.
ip-mcutx-cif :	Selects CIF for the screen size to be transmitted in multipoint connection.
ip-mcutx-4cif :	Selects 4CIF for the screen size to be transmitted in multipoint connection.
ip-mcutx-wcif :	Selects WCIF for the screen size to be transmitted in multipoint connection.
ip-mcutx-w432p :	Selects W432P for the screen size to be transmitted in multipoint connection.
ip-mcutx-w4cif :	Selects W4CIF for the screen size to be transmitted in multipoint connection.

ip-mcutx-hd720 : Selects 720(HD) for the screen size to be transmitted in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

Screen Size To Be Received in Multipoint Connection

ip-mcurx-scrnsz-auto : Automatically determines the screen size to be received in multipoint connection.

ip-mcurx-qcif : Selects QCIF for the screen size to be received in multipoint connection.

ip-mcurx-cif : Selects CIF for the screen size to be received in multipoint connection.

ip-mcurx-4cif : Selects 4CIF for the screen size to be received in multipoint connection.

ip-mcurx-wcif : Selects WCIF for the screen size to be received in multipoint connection.

ip-mcurx-w432p : Selects W432P for the screen size to be received in multipoint connection.

ip-mcurx-w4cif : Selects W4CIF for the screen size to be received in multipoint connection.

ip-mcurx-hd720 : Selects 720(HD) for the screen size to be received in multipoint connection.

Note:

Available when Individual Settings for both Transmission/Reception and P-P/MCU are set to On.

Video Mode For Transmission (You can select one or more.)

ip-pptx-h261 : Selects H.261 for the compression format of pictures to be transmitted. (Mandatory parameter)

ip-pptx-h263 : Selects H.263 for the compression format of pictures to be transmitted.

ip-pptx-h264 : Selects H.264 for the compression format of pictures to be transmitted.

Note:

H.261 is always selected.

Video Mode For Reception (You can select one or more.)

ip-pprx-h261 : Selects H.261 for the compression format of pictures to be received. (Mandatory parameter)

- ip-pprx-h263 : Selects H.263 for the compression format of pictures to be received.
- ip-pprx-h264 : Selects H.264 for the compression format of pictures to be received.

Note:

Available when Individual Settings for Transmission/Reception is set to On.
H.261 is always selected.

Video Mode For Transmission in Multipoint Connection

(You can select one or more.)

- ip-mcutx-h261 : Selects H.261 for the compression format of pictures to be transmitted in multipoint connection. (Mandatory parameter)
- ip-mcutx-h263 : Selects H.263 for the compression format of pictures to be transmitted in multipoint connection.
- ip-mcutx-h264 : Selects H.264 for the compression format of pictures to be transmitted in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.
H.261 is always selected.

Video Mode For Reception in Multipoint Connection

(You can select one or more.)

- ip-mcurx-h261 : Selects H.261 for the compression format of pictures to be received in multipoint connection. (Mandatory parameter)
- ip-mcurx-h263 : Selects H.263 for the compression format of pictures to be received in multipoint connection.
- ip-mcurx-h264 : Selects H.264 for the compression format of pictures to be received in multipoint connection.

Note:

Available when Individual Settings for both Transmission/Reception and P-P/MCU are set to On.
H.261 is always selected.

Video Frame During Transmission

- ip-pptx-autofps : Automatically determines the number of video frames during transmission.

- ip-pptx-15fps : Selects 15fps for the number of video frames during transmission.
- ip-pptx-30fps : Selects 30fps for the number of video frames during transmission.
- ip-pptx-60fps : Selects 60fps for the number of video frames during transmission.

Video Frame During Reception

- ip-pprx-autofps : Automatically determines the number of video frames during reception.
- ip-pprx-15fps : Selects 15fps for the number of video frames during reception.
- ip-pprx-30fps : Selects 30fps for the number of video frames during reception.
- ip-pprx-60fps : Selects 60fps for the number of video frames during reception.

Note:

Available when Individual Settings for Transmission/Reception is set to On.

Video Frame During Transmission in Multipoint Connection

- ip-mcutx-autofps : Automatically determines the number of video frames during transmission in multipoint connection.
- ip-mcutx-15fps : Selects 15fps for the number of video frames during transmission in multipoint connection.
- ip-mcutx-30fps : Selects 30fps for the number of video frames during transmission in multipoint connection.
- ip-mcutx-60fps : Selects 60fps for the number of video frames during transmission in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

Video Frame During Reception in Multipoint Connection

- ip-mcurx-autofps : Automatically determines the number of video frames during reception in multipoint connection.
- ip-mcurx-15fps : Selects 15fps for the number of video frames during reception in multipoint connection.
- ip-mcurx-30fps : Selects 30fps for the number of video frames during reception in multipoint connection.

ip-mcurx-60fps : Selects 60fps for the number of video frames during reception in multipoint connection.

Note:

Available when Individual Settings for both Transmission/Reception and P-P/MCU are set to On.

□ ISDN Communication-related Parameters

Individual Settings for P-P/MCU (ISDN connection)

isdn-ppmcu-sepa-on : Performs point-to-point and multipoint connection settings individually.

isdn-ppmcu-sepa-off : Performs point-to-point and multipoint connection settings simultaneously.

ISDN Bandwidth (Dial)

isdn-pptx-1b : Selects 1B(64K) for the number of ISDN lines used for dialing.

isdn-pptx-2b : Selects 2B(128K) for the number of ISDN lines used for dialing.

isdn-pptx-3b : Selects 3B(192K) for the number of ISDN lines used for dialing.

isdn-pptx-4b : Selects 4B(256K) for the number of ISDN lines used for dialing.

isdn-pptx-5b : Selects 5B(320K) for the number of ISDN lines used for dialing.

isdn-pptx-6b : Selects 6B(384K) for the number of ISDN lines used for dialing.

isdn-pptx-8b : Selects 8B(512K) for the number of ISDN lines used for dialing.

isdn-pptx-12b : Selects 12B(768K) for the number of ISDN lines used for dialing.

ISDN Bandwidth (Dial) in Multipoint Connection

- isdn-mcutx-1b : Selects 1B(64K) for the number of ISDN lines used for dialing in multipoint connection.
- isdn-mcutx-2b : Selects 2B(128K) for the number of ISDN lines used for dialing in multipoint connection.
- isdn-mcutx-3b : Selects 3B(192K) for the number of ISDN lines used for dialing in multipoint connection.
- isdn-mcutx-4b : Selects 4B(256K) for the number of ISDN lines used for dialing in multipoint connection.
- isdn-mcutx-5b : Selects 5B(320K) for the number of ISDN lines used for dialing in multipoint connection.
- isdn-mcutx-6b : Selects 6B(384K) for the number of ISDN lines used for dialing in multipoint connection.
- isdn-mcutx-8b : Selects 8B(512K) for the number of ISDN lines used for dialing in multipoint connection.
- isdn-mcutx-12b : Selects 12B(768K) for the number of ISDN lines used for dialing in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

Audio Mode (You can select one or more.)

- isdn-pp-g711 : Selects G.711 for the audio mode. (Mandatory parameter)
- isdn-pp-g728 : Selects G.728 for the audio mode.
- isdn-pp-g722 : Selects G.722 for the audio mode.
- isdn-pp-mpeg4audio : Selects MPEG4 AAC for the audio mode.

Note:

G.711 is always selected.

Audio Mode in Multipoint Connection

(You can select one or more.)

- isdn-mcu-g711 : Selects G.711 for the audio mode in multipoint connection. (Mandatory parameter)
- isdn-mcu-g728 : Selects G.728 for the audio mode in multipoint connection.
- isdn-mcu-g722 : Selects G.722 for the audio mode in multipoint connection.

isdn-mcu-mpeg4audio : Selects MPEG4 AAC for the audio mode in multipoint connection.

Note:

G.711 is always selected.

Far End Camera Control

isdn-pp-fecc-on : Enables the control of far end cameras.

isdn-pp-fecc-off : Disables the control of far end cameras.

Far End Camera Control in Multipoint Connection

isdn-mcu-fecc-on : Enables the control of far end cameras in multipoint connection.

isdn-mcu-fecc-off : Disables the control of far end cameras in multipoint connection.

H.239 Presentation

isdn-h239-on : Enables the presentation mode based on the H.239 standard.

isdn-h239-off : Disables the presentation mode based on the H.239 standard.

H.239 Ratio

isdn-h239-rate-1-3 : Use 1/3 of the total bandwidth for H.239 presentation data transmissions.

isdn-h239-rate-1-2 : Use 1/2 of the total bandwidth for H.239 presentation data transmissions.

isdn-h239-rate-2-3 : Use 2/3 of the total bandwidth for H.239 presentation data transmissions.

Restrict

isdn-restrict-auto : Automatically determines the ISDN transmission rate.

isdn-restrict-56k : Restricts the ISDN transmission rate to 56K.

Screen Size

isdn-pp-scrnsz-auto : Automatically determines the screen size.

isdn-pp-cif : Selects CIF for the screen size.

isdn-pp-4cif : Selects 4CIF for the screen size.

isdn-pp-wcif : Selects WCIF for the screen size.

isdn-pp-w432p : Selects W432P for the screen size.

isdn-pp-w4cif : Selects W4CIF for the screen size.

Screen Size in Multipoint Connection

- isdn-mcu-scrnsz-auto : Automatically determines the screen size in multipoint connection.
- isdn-mcu-cif : Selects CIF for the screen size in multipoint connection.
- isdn-mcu-4cif : Selects 4CIF for the screen size in multipoint connection.
- isdn-mcu-wcif : Selects WCIF for the screen size in multipoint connection.
- isdn-mcu-w432p : Selects W432P for the screen size in multipoint connection.
- isdn-mcu-w4cif : Selects W4CIF for the screen size in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

Video Mode (You can select one or more.)

- isdn-pp-h261 : Selects H.261 for the compression format of pictures. (Mandatory parameter)
- isdn-pp-h263 : Selects H.263 for the compression format of pictures.
- isdn-pp-h264 : Selects H.264 for the compression format of pictures.

Note:

H.261 is always selected.

Video Mode in Multipoint Connection

(You can select one or more.)

- isdn-mcu-h261 : Selects H.261 for the compression format of pictures in multipoint connection. (Mandatory parameter)
- isdn-mcu-h263 : Selects H.263 for the compression format of pictures in multipoint connection.
- isdn-mcu-h264 : Selects H.264 for the compression format of pictures in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

H.261 is always selected.

Video Frame

- isdn-pp-autofps : Automatically determines the number of video frames.

isdn-pp-15fps :	Selects 15fps for the number of video frames.
isdn-pp-30fps :	Selects 30fps for the number of video frames.
isdn-pp-60fps :	Selects 60fps for the number of video frames.

Video Frame in Multipoint Connection

- isdn-mcu-autofps : Automatically determines the number of video frames in multipoint connection.
- isdn-mcu-15fps : Selects 15fps for the number of video frames in multipoint connection.
- isdn-mcu-30fps : Selects 30fps for the number of video frames in multipoint connection.
- isdn-mcu-60fps : Selects 60fps for the number of video frames in multipoint connection.

Note:

Available when Individual Settings for P-P/MCU is set to On.

[] SIP Communication-related Parameters

Audio Mode (You can select one or more.)

- sip-g711 : Selects G.711 for the audio mode. (Mandatory parameter)
- sip-g728 : Selects G.728 for the audio mode.
- sip-g722 : Selects G.722 for the audio mode.

Far End Camera Control

- sip-fecc-on : Enables the control of far end cameras.
- sip-fecc-off : Disables the control of far end cameras.

Screen Size

- sip-scrnsz-auto : Automatically determines the screen size.
- sip-qcif : Selects QCIF for the screen size.
- sip-cif : Selects CIF for the screen size.
- sip-4cif : Selects 4CIF for the screen size.
- sip-wcif : Selects WCIF for the screen size.
- sip-w432p : Selects W432P for the screen size.
- sip-w4cif : Selects W4CIF for the screen size.
- sip-hd720 : Selects 720(HD) for the screen size.

Video Mode (You can select one or more.)

- sip-h261 : Selects H.261 for the compression format of pictures. (Mandatory parameter)
- sip-h263 : Selects H.263 for the compression format of pictures.
- sip-h264 : Selects H.264 for the compression format of pictures.
- sip-mpeg4video : Selects MPEG4 for the compression format of pictures.
- sip-novideo : Selects no video. (Other modes are all canceled.)

Video Frame

- sip-autofps : Automatically determines the number of video frames.
- sip-15fps : Selects 15fps for the number of video frames.
- sip-30fps : Selects 30fps for the number of video frames.
- sip-60fps : Selects 60fps for the number of video frames.

Typed Parameter

- ADDR_1 : Remote party info 1
ISDN case: Enter the line number used when dialing using the ISDN port 1.
H.323/SIP case: Enter the IP address of a remote party.
- ADDR_2 : Remote party info 2
ISDN: Enter the line number used when dialing using the ISDN port 2.
- ADDR_3 : Remote party info 3
ISDN: Enter the line number used when dialing using the ISDN port 3.
- ADDR_4 : Remote party info 4
ISDN: Enter the line number used when dialing using the ISDN port 4.
- ADDR_5 : Remote party info 5
ISDN: Enter the line number used when dialing using the ISDN port 5.
- ADDR_6 : Remote party info 6
ISDN: Enter the line number used when dialing using the ISDN port 6.
- TTL_LAN_MCURATE : Enter the total bandwidth for LAN multipoint connection (in kbps, 1 to 10240 for PCS-XG80 /XA80, 1 to 4096 for PCS-XG55/XA55/XL55).
- PPTX_LAN_RATE : Enter the transmission bit rate for LAN connection (in kbps, 1 to 10240 for PCS-XG80/XA80, 1 to 4096 for PCS-XG55/XA55/XL55).
- PPRX_LAN_RATE : Enter the reception bit rate for LAN connection (in kbps, 1 to 10240 for PCS-XG80/XA80, 1 to 4096 for PCS-XG55/XA55/XL55).

MCUTX_LAN_RATE : Enter the transmission bit rate for LAN multipoint connection (in kbps, 16 to 10240).
MCURX_LAN_RATE : Enter the reception bit rate for LAN multipoint connection (in kbps, 16 to 10240).
SIP_RATE Enter the communication bit rate for SIP. connection (in kbps, 16 to 10240).

Return Value

[Notifying the connection status]

connect status

(in case of ISDN connection)

S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12

C01 C02 C03 C04 C05 C06 C07 C08 C09 C10 C11 C12

* S0x shows the port status code (See APPENDIX-A.), and C0x shows the port cause code. (See APPENDIX-B.)

(in case of H.323/SIP connection)

S01 S02 S03 S04 S05

C01 C02 C03 C04 C05

* S0x shows the point ID status code (See APPENDIX-A.), and C0x shows the point ID cause code. (See APPENDIX-B.)

[Notifying the completion of connection]

connect complete

[Notifying the connection fail]

disconnect CC

* CC shows the cause code (See APPENDIX-B).

Examples

In case of dialing with the following settings:

Line I/F: ISDN

Number of BRI Lines: 6B

Video Mode: H.264

Video Frame: 30fps

Audio Mode: G.722 and MPEG4 AUDIO

Far End Camera Control: On

Screen Size: 4CIF

H.239 Presentation: On

ADDR_1, ADDR_2 (1B,2B): 9999-1111

ADDR_3, ADDR_4 (3B,4B) : 9999-2222

ADDR_5, ADDR_6 (5B,6B): 9999-3333

```
dial bri isdn-pptx-6b isdn-pp-h264 isdn-pp-30fps isdn-pp-g722  
isdn-pp-mpeg4audio isdn-pp-fecc-on isdn-pp-4cif isdn-h239-on  
/99991111/99991111/99992222/99992222/99993333/99993333/
```

In case of dialing with the following settings:

Line I/F: LAN

Video Mode: H.264

Video Frame: 60fps

Screen Size: 720(HD)

Audio Mode: MPEG4 AUDIO

Transmission Bit Rate: 4Mbps

ADDR_1: 192.168.10.10

```
dial lan ip-pptx-h264 ip-pptx-60fps ip-pptx-mpeg4audio  
ip-pptx-hd720 /192.168.10.10/!/!/!/!/!/4096/
```

In case of dialing with the following settings:

Line I/F for the 1st -3rd Point in Multipoint Connection: LAN

Video Mode: H.264

Screen Size: 4CIF

Audio Mode: MPEG4 AUDIO

Individual Setting for P-P/MCU: ON

Total Bandwidth for LAN Multipoint Connection : 10 Mbps

Reception bit rate for LAN Multipoint Connection: 2Mbps

ADDR_1: 192.168.20.10

ADDR_2: 192.168.20.20

ADDR_3: 192.168.20.30

```
dial multi m1-lan m2-lan m3-lan ip-ppm-cu-sepa-on  
ip-mcutx-h264 ip-mcutx-4cif ip-mcutx-mpeg4audio  
/192.168.20.10/192.168.20.20/192.168.20.30/!/!/!/10240!/!/2048/
```

dial cancel

Description

Cancels dialing.

Syntax

dial cancel

Selective Parameter

None

Typed Parameter

None

Return Value

dial cancel

answer accept

Description

Permits an incoming call.

Syntax

answer accept

Selective Parameter

None

Typed Parameter

None

Return Value

[Notifying the connection status]

connect status

S01 S02 S03 S04 S05

C01 C02 C03 C04 C05

* S0x shows the point ID status code and C0x shows the point ID cause code. (See APPENDIX-B.)

[Notifying the completion of connection]

connect complete

[Notifying the connection fail]

disconnect CC

* CC shows the cause code. (See APPENDIX-B.).

answer reject

Description

Reject an incoming call.

Syntax

answer reject

Selective Parameter

None

Typed Parameter

None

Return Value

None

disconnect

Description

Disconnects the session.

Disconnect all the sessions in multipoint connection.

Syntax

disconnect

Selective Parameter

None

Typed Parameter

None

Return Value

disconnect CNO CC

Description of Code

Code	Description	Character String
Channel NO	Channel Number	a,b,c,d,e
CauseCode	Cause Code	See APPENDIX-B

disconnect {a,b,c,d,e}

Description

Disconnects the specified point in the multipoint connection.

Syntax

disconnect {a,b,c,d,e}

Selective Parameter

None

Typed Parameter

None

Return Value

disconnect CNO CC

Description of Code

Code	Description	Character String
Channel NO	Channel Number	a,b,c,d,e
CauseCode	Cause Code	See APPENDIX-B

power-on

Description

Turns on the power of the main unit.

Syntax

power-on

Selective Parameter

None

Typed Parameter

None

Return Value

power-on

power-off

Description

Turns off the power of the main unit.

Syntax

power-off

Selective Parameter

None

Typed Parameter

None

Return Value

power-off

stand-by

Description

Puts the main unit into the standby mode.

Syntax

stand-by

Selective Parameter

None

Typed Parameter

None

Return Value

stand-by

display

Description

Switches the displayed picture between the local and remote pictures.

Syntax

display {near,far,far-near}

Selective Parameter

Local/Remote Picture Select

near : Displays the local picture.

far : Displays the remote picture.

far-near : Toggles the local and remote pictures. (local to remote, or remote to local)

Typed Parameter

None

Return Value

display {near,far}

(The current status returns.)

layout

Description

Switches the screen display pattern.

Syntax

layout {full,sidebyside,pandp,pinp-upright,pinp-upleft,pinp-downright,
pinp-downleft,pinp-downrightside}

Selective Parameter

Layout Select

full :	Displays the picture in full screen.
sidebyside :	Displays the remote and local pictures side by side.
pandp :	Displays the remote and local pictures in the PandP mode.
pinp-upright :	Displays the remote and local pictures in the PinP mode. The window picture is located at the upper-right corner.
pinp-upleft :	Displays the remote and local pictures in the PinP mode. The window picture is located at the upper-left corner.
pinp-downright :	Displays the remote and local pictures in the PinP mode. The window picture is located at the lower-right corner.
pinp-downleft :	Displays the remote and local pictures in the PinP mode. The window picture is located at the lower-left corner.
pinp-downrightside :	Displays the remote and local pictures in the PinP mode. The window picture borders the bottom-and most-left corner.

Typed Parameter

None

Return Value

layout {full,sidebyside,pandp,pinp-upright,pinp-upleft,pinp-downright,
pinp-downleft,pinp-downrightside}

(The current status returns.)

video

Description

Selects the input picture on the local site.

Syntax

video {camera,rgb,ypbpr,s-video}

Selective Parameter

Video Input (Near)

camera :	Selects the picture from the camera.
rgb :	Selects the picture from the equipment connected to the RGB IN connector.
ypbpr :	Selects the picture from the equipment connected to the VIDEO IN YPbPr.
s-video :	Selects the picture from the equipment connected to the S VIDEO IN connector. * For PCS-XG80/XA80

Typed Parameter

None

far video

Description

Selects the input picture on the remote site.

Syntax

far video {camera,rgb,ypbpr,s-video}

Selective Parameter

Video Input (Far)

- camera : Selects the picture from the camera.
- rgb : Selects the picture from the equipment connected to the RGB IN connector.
- ypbpr : Selects the picture from the equipment connected to the VIDEO IN YPbPr .
- s-video : Selects the picture from the equipment connected to the S VIDEO IN connector.

Typed Parameter

None

Return Value

far video {camera,rgb,ypbpr,s-video}

(The current status returns.)

monitor-mode

Description

Switches the video output equipment.

Syntax

monitor-mode {hdmi,rgb,hdmi-rgb}

Selective Parameter

Monitor Select Mode

- hdmi : Outputs the picture to external equipment connected to the HDMI OUT connector (single monitor).
- rgb : Outputs the picture to external equipment connected to the RGB OUT connector (single monitor).
- hdmi-rgb : Outputs the picture both to equipment connected to the HDMI OUT and RGB OUT connectors (dual monitor).

Typed Parameter

None

Return Value

monitor-mode {hdmi,rgb,hdmi-rgb}

(The current status returns.)

xdisplay (*For PCS-XL55)

Description

Switches the display mode.

Syntax

xdisplay {pc,hdmi,pc-hdmi,hdmi-pc}

Selective Parameter

Input Video Select

- pc : Selects a single PC screen.
- hdmi : Selects a single videoconferencing screen.
- pc-hdmi : Selects two-screen display (main screen for a PC screen and sub screen for a videoconferencing screen).
- hdmi-pc : Selects two-screen display (main screen for a videoconferencing screen and sub screen for a PC screen).

Typed Parameter

None

Returned Value

xdisplay {pc,hdmi,pc-hdmi,hdmi-pc}

(The current status returns.)

audio(1)

Description

Control the volume.

Syntax

audio {volume-up,volume-down,volume-%(%=0 to 23)}

Selective Parameter

Volume Control

- volume-up : Increases the volume one step.
- volume-down : Decreases the volume one step.
- volume-% : Adjusts the volume level % ranging from 0 to23.

Typed Parameter

None

Return Value

audio volume-% (%=0 to 23)

(The current value of the volume returns.)

audio(2)

Description

Turns on/off the microphone.

Syntax

audio {mic-on,mic-off,mic-onoff}

Selective Parameter

Mic Control

mic-on :	Turns on the microphone.
mic-off :	Turns off the microphone.
mic-onoff :	Toggles the microphone on and off. (Mic on to Mic off, or Mic off to Mic on)

Typed Parameter

None

Return Value

audio {mic-on,mic-off}

(The current status of the microphone returns.)

audio(3)

Description

Transmits the DTMF.

Syntax

audio {dtmf-%(%=0 to 9),dtmf-*,dftmf-#,dtmf-a,dtmf-b,dtmf-c,dtmf-d}

Selective Parameter

DTMF Code

dtmf-% :	Transmits the variable DTMF code (%=0 to 9).
dtmf-* :	Transmits the DTMF code “*.”
dtmf-# :	Transmits the DTMF code “#.”
dtmf-a :	Transmits the DTMF code “A.”
dtmf-b :	Transmits the DTMF code “B.”
dtmf-c :	Transmits the DTMF code “C.”
dtmf-d :	Transmits the DTMF code “D.”

Typed Parameter

None

Return Value

audio {dtmf-%(%=0 to 9),dtmf-*,dftmf-#,dtmf-a,dtmf-b,dtmf-c,dtmf-d}

(The DTMF code value which is transmitted returns.)

rgb

Description

Starts/Stops transmission of H.239 presentation data.

Syntax

rgb {start,stop}

Selective Parameter

H.239 Control

start :	Starts transmission of H.239 presentation data.
stop :	Stops transmission of H.239 presentation data.

Typed Parameter

None

Return Value

rgb {send-start,send-stop} ERR

(The current status of H.239 returns.)

ERRor: When error occurs, "error" is displayed. If successful, no display.

[Notifying start and end of H.239]

When a remote party starts/stops H.239 presentation.

rgb {receive-start, receive-stop}

is displayed.(The current status of H.239 returns.)

camera

Description

Controls the near-end camera.

Syntax

camera SUB-CMD{must, possible}

(For description of sub-command, see the list shown below.)

Precautions on Camera Control Command

- Unless otherwise noted, typed parameters should be given in hexadecimal.
- Up to 39 characters can be entered for a typed parameter. The typed parameter should begin and end with a slash"/."
- If there are two or more typed parameters, each should be separated with a slash"/."
- A command is executed followed by [CR] (carriage return) and [LF] (line feed) codes.
- Up to 2048 characters can be typed for a command string.

Sub-command

Sub-command	Typed Parameter	Description	Remarks
Zoom			
zoom-stop		Stop the zoom control	
zoom-tele		tele(standard)	
zoom-wide		wide(standard)	
zoom-tele	/H1/	tele(variable)	H1:TELE speed 0-7 (low<->high)
zoom-wide	/H1/	wide(variable)	H1:WIDE speed 0-7 (low<->high)
zoom-setpos	/H1/	zoom position	H1:Velocity 0000-3FFF
Pan/Tilt			
up		up(standard)	
down		down(standard)	
left		left(standard)	

right		right(standard)	
up	/H1/	up(variable)	H1:TILT speed 0-14 (low<->high)
down	/H1/	down(variable)	H1:TILT speed 0-14 (low<->high)
left	/H1/	left(variable)	H1:PAN speed 0-18 (low<->high)
right	/H1/	right(variable)	H1:PAN speed 0-18 (low<->high)
upright	/H1/H2/	upright(variable)	H1:PAN speed 0-18 (low<->high) H2:TILT speed 0-14 (low<->high)
upleft	/H1/H2/	upleft(variable)	H1:PAN speed 0-18 (low<->high) H2:TILT speed 0-14 (low<->high)
downright	/H1/H2/	downright(variable)	H1:PAN speed 0-18 (low<->high) H2:TILT speed 0-14 (low<->high)
downleft	/H1/H2/	downleft(variable)	H1:PAN speed 0-18 (low<->high) H2:TILT speed 0-14 (low<->high)
pan/tilt-stop		pan/tilt stop	
move-abspos	/H1/H2/H3/H4/	Sets the absolute position	H1:PAN speed 0-18 (low<->high) H2:TILT speed 0-14 (low<->high) H3:PAN position FA60-05A0 (Center:0000) H4:TILT position FE98-0168 (Center:0000)

move-rtvpos	/H1/H2/H3/H4/	Sets the relative position	H1: PAN speed 0-18 (low<->high) H2: TILT speed 0-14 (low<->high) H3: PAN position F4C0-0B40 (Center:0000) H4: TILT position FD30-02D0 (Center:0000)
pantilt-home		home	
pantilt-reset		reset	
Aging			
aging-start		Starts aging	
aging-stop		Stops aging	
Preset			
save	/D1/	Saves the preset setting	D1: Preset number 1 to 100 (decimal number)
move	/D1/	Moves the camera to the preset position	D1: Preset number 1 to 100 (decimal number)
reset	/D1/	Resets the preset setting	D1: Preset number 1 to 100 (decimal number)
Focus			
focus-stop		Stops the focus control	
focus-far		FAR(standard)	“focus-manual” shall be enabled
focus-near		NEAR(standard)	“focus-manual” shall be enabled
focus-far	/H1/	FAR(variable)	“focus-manual” shall be enabled H1: Focus speed 0-7 (low<->high)

focus-near	/H1/	NEAR(variable)	“focus-manual” shall be enabled H1:Focus speed 0-7 (low<->high)
focus-auto		Auto focus on/off	
focus-manual		Manual Focus on/off	
focus-setpos	/H1/	Sets the focus position	“focus-manual” shall be enabled H1:Focus position 0000-7FFF
focus-manauto		Auto/Manual	
focus-unlimit		Infinity	
focus-aft		Auto focus trigger	“focus-manual” shall be enabled
Zoom Focus			
zoom-focus	/H1/H2/	Sets the zoom and focus positions	“focus-manual” shall be enabled H1: Zoom position 0000-7FFF H2: Focus position 0000-7FFF
White Balance			
wb-auto		Normal auto	
wb-indoor		Indoor Mode	
wb-outdoor		Outdoor Mode	
wb-op		One Push WB	
wb-man		Manual control mode	
White Balance R			
wbr-reset		Reset	“wb-man” shall be enabled
wbr-up		Up	“wb-man” shall be enabled
wbr-down		Down	“wb-man” shall be enabled

wbr-set	/H1/	Sets the R value	“wb-man” shall be enabled H1:R value 00-EA
White Balance B			
wbb-reset		Reset	“wb-man” shall be enabled
wbb-up		Up	“wb-man” shall be enabled
wbb-down		Down	“wb-man” shall be enabled
wbb-set	/H1/	Sets the B value	“wb-man” shall be enabled H1:B value 00-DA
Exposure Setting			
exp-auto		Auto	
exp-man		Manual	
exp-shpri		Shutter priority	
exp-irispri		Iris priority	
exp-spot		Spotlight	
Slow Shutter			
slowshutter-limit	/H1/	Limit	“ex-man” shall be enabled H1:mode 0-2
Exposure Compensation			
expc-on		ON	
Backlight			
backlight-on		ON	
backlight-off		OFF	
Aperture Control			
aperture-reset		Reset	
aperture-up		Up	
aperture-down		Down	
aperture-set	/H1/	Sets the aperture gain value	H1:Aperture gain value 0-E
Video Effect			
videoeffect-none		None	

videoeffect-mon	B/W
o	
videoeffect-neg	Inversion
DSUB 15pin SYNC	
dsubsync-3state	3-STATE
dsubsync-vd	VD
Remote Controller	
rem-on	ON
rem-off	OFF
rem-onoff	ON/OFF
Camera Setting Reset	
reset-config	Resets the setting

Selective Parameter

Control Mode

- must : Even when the previous camera command is being executed, this command is queued and then executed after the command is issued.
- possible : When the previous camera command is being executed, this command is NOT executed.

Return Value

[At the completion of operation]

camera SUB-CMD complete

[At incomplete operation]

camera SUB-CMD incomplete ST

(ST shows the error cause.)

Error Cause

- not init : Not initialized
- busy : Under execution
- syntax error : Syntax error
- socket error : Socket error
- execute error : Execution error
- buffer full : Buffer full

not supported	: Not supported
not power on	: Power error
on network test	: During network measurement
not communication	: Not communicated (far control)
on update	: During updating
not connect	: No camera connected
timeout	: Time out
preset type error	: Preset type error
preset no memory	: No preset setting registered
error	: other

far camera

Description

Controls the far-end camera.

Syntax

far camera SUB-CMD {must, possible}

(For description of sub-command, see the list shown below.)

Precautions on Camera Control Command

- Unless otherwise noted, typed parameters should be given in hexadecimal.
- Up to 39 characters can be entered for a typed parameter. The typed parameter should begin and end with a slash "/."
- If there are two or more typed parameters, each should be separated with a slash "/." It cannot be omitted.
- A command is executed followed by [CR] (carriage return) and [LF] (line feed) codes.
- Up to 2048 characters can be typed for a command string.

Sub-command

Sub-command	Typed Parameter	Description	Remarks
Zoom			
zoom-stop		Stop the zoom control	
zoom-tele		tele(standard)	
zoom-wide		wide(standard)	
Pan/Tilt			
up		up(standard)	
down		down(standard)	
left		left(standard)	
right		right(standard)	
pan/tilt-stop		pan/tilt stop	
Preset			
save	/D1/	Saves the preset setting	D1: Preset number 1 to 6 (decimal number)

move	/D1/	Moves the camera to the preset position	D1: Preset number 1 to 6 (decimal number)
------	------	---	---

Focus

focus-stop		Stops the focus control
focus-far		FAR(standard)
focus-near		NEAR(standard)

Selective Parameter

Control Mode

must :	Even when the previous camera command is being executed, this command is queued and then executed after the command is issued.
possible :	When the previous camera command is being executed, this command is NOT executed.

Return Value

None

status machine

Description

Obtains the machine information

Syntax

status machine

Selective Parameter

None

Typed Parameter

None

Return Value

status machine

model name

host version

software option (none, muitipoint,h239)

option I/F (none,isdn(b768),isdn(b384),tablet)

host name

IP address for LAN1 (IPv4 format/IPv6 format)

IP address for LAN2 (IPv4 format/IPv6 format) * For PCS-XG80/XA80

MAC address1 (xx-xx-xx-xx-xx-xx)

MAC address 2 (xx-xx-xx-xx-xx-xx) * For PCS-XG80/XA80

serial number

status communication p-p

Description

Obtains the communication status in point-to-point connection.

Syntax

status communication p-p

Selective Parameter

None

Typed Parameter

None

Return Value

status communication

LID LMD FR-T FR-R LNM LRT IP-T IP-R AUD-T ADU-R VID-T ANX-T SS-T
 VID-R ANX-R SS-R FECC H239 ARQ ARC FEC ANNOT LIP /TNM/ //IP ADR/
 /CHK/

Description of Code

Code	Description	Character String
LineID	Line ID	1,none
LineMoDe	Line I/F	lan,bri,speech,sip, bonding,lan2,sip2
FRame-Tx	Transmission frame rate	Numeric value
FRame-Rx	Reception frame rate	Numeric value
Line NuMber	Number of Lines(H.320)	Numeric value
Line RaTe	Bit rate(H.320)	Numeric value
IP-Tx	Transmission bit rate(IP)	Numeric value
IP-Rx	Reception bit rate(IP)	Numeric value
AUDio-Tx	Audio mode for transmission	g711,g728,g722,none,g723,g726 g7221,g729,mpeg4aac,mpeg4celp, mpeg4aac-mono96k, mpeg4aac-stereo96k, mpeg4aac-mono48k, mpeg4aac-stereo48k

AUDio-Rx	Audio mode for reception	g711,g728,g722, none,g723,g726 g7221,g729,mpeg4aac,mpeg4celp, mpeg4aac-mono96k, mpeg4aac-stereo96k, mpeg4aac-mono48k, mpeg4aac-stereo48k
VIDeo-Tx	Video mode for transmission	h261,h263,mpeg4video,h264, none
ANneX-Tx	Transmission Video Annex	Numeric value
ScreenSize-Tx	Screen size to be transmitted	qcif,cif,4cif,wcif,w432p,w4cif,hd720
VIDeo-Rx	Video mode for reception	h261,h263,mpeg4video,h264, none
ANneX-Rx	Reception Video Annex	Numeric value
ScreenSize-Rx	Screen size to be received	qcif,cif,4cif,wcif,w432p,w4cif,hd720
FECC	Far end camera control	fecc-on,fecc-off
H239	H.239	h239-on,h239-off
ARQ	ARQ	arq-on,arq-off
ARC	ARC	arc-on,arc-off
FEC	FEC	fec-on,fec-off
ANNOtation	Annotation	annot-on,annot-off
LIP sync	Lip sync mode	lipsync-on, lipsync-off
Terminal NaMe	Remote terminal name	
IP ADdRess	IP address of a remote party	
CHeCK code	Check code	

status communication mcu

Description

Obtains the communication status in multipoint connection.

Syntax

status communication mcu

Selective Parameter

None

Typed Parameter

None

Return Value

status communication p-p

LID LMD FR-T FR-R LNM LRT IP-T IP-R AUD-T ADU-R VID-T ANX-T SS-T
 VID-R ANX-R SS-R FECC H239 ARQ ARC FEC ANNOT LIP /TNM/ //IP ADR/
 /CHK/

:

Description of Code

Code	Description	Character String
LineID	Line ID	1,2,3,4,5,none
LineMoDe	Line I/F	lan,bri,speech,sip, bonding,lan2,sip2
FRame-Tx	Transmission frame rate	Numeric value
FRame-Rx	Reception frame rate	Numeric value
Line NuMber	Number of Lines(H.320)	Numeric value
Line RaTe	Bit rate(H.320)	Numeric value
IP-Tx	Transmission bit rate(IP)	Numeric value
IP-Rx	Reception bit rate(IP)	Numeric value
AUDio-Tx	Audio mode for transmission	g711,g728,g722,none,g723,g726 g7221,g729,mpeg4aac,mpeg4celp, mpeg4aac-mono96k, mpeg4aac-stereo96k, mpeg4aac-mono48k, mpeg4aac-stereo48k

AUDio-Rx	Audio mode for reception	g711,g728,g722, none,g723,g726 g7221,g729,mpeg4aac,mpeg4celp, mpeg4aac-mono96k, mpeg4aac-stereo96k, mpeg4aac-mono48k, mpeg4aac-stereo48k
VIDeo-Tx	Video mode for transmission	h261,h263,mpeg4video,h264, none
ANneX-Tx	Transmission Video Annex	Numeric value
ScreenSize-Tx	Screen size to be transmitted	qcif,cif,4cif,wcif,w432p,w4cif,hd720
VIDeo-Rx	Video mode for reception	h261,h263,mpeg4video,h264, none
ANneX-Rx	Reception Video Annex	Numeric value
ScreenSize-Rx	Screen size to be received	qcif,cif,4cif,wcif,w432p,w4cif,hd720
FECC	Far end camera control	fecc-on,fecc-off
H239	H.239	h239-on,h239-off
ARQ	ARQ	arq-on,arq-off
ARC	ARC	arc-on,arc-off
FEC	FEC	fec-on,fec-off
ANNOtation	Annotation	annot-on,annot-off
LIP sync	Lip sync mode	lipsync-on, lipsync-off
Terminal NaMe	Remote terminal name	
IP ADdRess	IP address of a remote party	
CHeCK code	Check code	

status macstatus

Description

Obtains the machine status.

Syntax

status macstatus

Selective Parameter

None

Typed Parameter

None

Return Value

status macstatus

Input video name (preconfigured one or any of CAMERA, RGB, YPbPr, if not configured)

S-VIDEO)

Input audio name (MIC(A1/A3),EC-MIC(A7),AUDIO 1,AUDIO 2,
MIC(A1/A3) + AUDIO 1,MIC(A1/A3) + AUDIO 2,MIC(A7) + AUDIO 1,
MIC(A7) + AUDIO 2)

Output video resolution (1080/50i,1080/60i,720/60p)

Output audio name (HDMI + AUDIO OUT)

LAN mode for LAN1 (100Mbps Full Duplex,100Mbps Half Duplex,
10Mbps Full Duplex,10Mbps Half Duplex)

LAN mode for LAN2 (100Mbps Full Duplex,100Mbps Half Duplex,
10Mbps Full Duplex,10Mbps Half Duplex)

Gatekeeper status (Gatekeeper OFF,Gatekeeper ON)

First camera's model name

(EVI-D30,EVI-D70,PCSA-CG70/EVI-D100,EVI-HD1,
BRC-300,BRC-H700,PCSA-CHG90,PCSA-CXG80,PCSA-CXG80-P)

Second camera's model name

(EVI-D30,EVI-D70,PCSA-CG70/EVI-D100,EVI-HD1,
BRC-300,BRC-H700,PCSA-CHG90,PCSA-CXG80,PCSA-CXG80-P)

status packet p-p

Description

Obtains the IP communication packet status in point-to-point connection.

Syntax

status packet p-p

Selective Parameter

None

Typed Parameter

None

Return Value

status packet p-p

ACT FR-T FR-R TOT-T TOT-R AUD-T AUD-R VID-T VID-R 2VID-T 2VID-R
 AUDLOS AUDRCV AUDTOT VIDLOS VIDRCV VIDTOT CAMLOS
 CAMRCV CAMTOT 2VIDLOS 2VIDRCV 2VIDTOT

Description of Code

Code	Description	Character strings
ACTive	Connection status	on,off
FRame-Tx	Transmission frame rate	Numeric value
FRame-Rx	Reception frame rate	Numeric value
TOTal-Tx	Total transmission bit rate(bps)	Numeric value
TOTal-Rx	Total reception bit rate (bps)	Numeric value
AUDio-Tx	Audio transmission rate(bps)	Numeric value
AUDio-Rx	Audio reception rate(bps)	Numeric value

VIDeo-Tx	Video transmission rate(bps)	Numeric value
VIDeo-Rx	Video reception rat (bps)	Numeric value
2VIDeo-Tx	Second video transmission bit rate(bps)	Numeric value
2VIDeo-Rx	Second video reception bit rate(bps)	Numeric value
AUDio LOSs packet	Number of lost audio packets	Numeric value
AUDio ReCoVer packet	Number of recovered audio packets	Numeric value
AUDio TOTal packet	Number of total audio packets	Numeric value
VIDeo LOSs packet	Number of lost video packets	Numeric value
VIDeo ReCoVer packet	Number of recovered video packets	Numeric value
VIDeo TOTal packet	Number of total video packets	Numeric value
CAMecon LOSs packet	Number of lost FECC packets	Numeric value
CAMecon ReCoVer packet	Number of recovered FECC packets	Numeric value
CAMecon TOTal packet	Number of total FECC packets	Numeric value
2VIDeo LOSs packet	Number of lost second video packets	Numeric value
2VIDeo ReCoVer packet	Number of recovered second video packets	Numeric value
2VIDeo TOTal packet	Number of total second video packets	Numeric value

status packet mcu

Description

Obtains the IP communication packet status in multipoint connection.

Syntax

status packet mcu

Selective Parameter

None

Typed Parameter

None

Return Value

status packet p-p

ACT FR-T FR-R TOT-T TOT-R AUD-T AUD-R VID-T VID-R 2VID-T 2VID-R
 AUDLOS AUDRCV AUDTOT VIDLOS VIDRCV VIDTOT CAMLOS
 CAMRCV CAMTOT 2VIDLOS 2VIDRCV 2VIDTOT

:

Description of Code

Code	Description	Character strings
ACTive	Connection status	on,off
FRame-Tx	Transmission frame rate	Numeric value
FRame-Rx	Reception frame rate	Numeric value
TOTal-Tx	Total transmission bit rate(bps)	Numeric value
TOTal-Rx	Total reception bit rate (bps)	Numeric value
AUDio-Tx	Audio transmission rate(bps)	Numeric value

AUDio-Rx	Audio reception rate(bps)	Numeric value
VIDeo-Tx	Video transmission rate(bps)	Numeric value
VIDeo-Rx	Video reception rat (bps)	Numeric value
2VIDeo-Tx	Second video transmission bit rate(bps)	Numeric value
2VIDeo-Rx	Second video reception bit rate(bps)	Numeric value
AUDio LOSs packet	Number of lost audio packets	Numeric value
AUDio ReCoVer packet	Number of recovered audio packets	Numeric value
AUDio TOTal packet	Number of total audio packets	Numeric value
VIDeo LOSs packet	Number of lost video packets	Numeric value
VIDeo ReCoVer packet	Number of recovered video packets	Numeric value
VIDeo TOTal packet	Number of total video packets	Numeric value
CAMecon LOSs packet	Number of lost FECC packets	Numeric value
CAMecon ReCoVer packet	Number of recovered FECC packets	Numeric value
CAMecon TOTal packet	Number of total FECC packets	Numeric value
2VIDeo LOSs packet	Number of lost second video packets	Numeric value
2VIDeo ReCoVer packet	Number of recovered second video packets	Numeric value
2VIDeo TOTal packet	Number of total second video packets	Numeric value

status lines

Description

Obtains the communication line status.

Syntax

status lines

Selective Parameter

None

Typed Parameter

None

Return Value

status lines

SB01 SB02 ... SB12 SL01 SL02 ... SL05

CB01 CB02 ... CB12 CL01 CL02 ... CL05

Description of Code

Code	Description	Remarks
SB01 to SB12	BRI port status code	See APPENDIX-A
SL01 to SL05	LAN line status code	See APPENDIX-A
CB01 to CB12	BRI port cause code	See APPENDIX-A
CL01 to CL05	LAN port cause code	See APPENDIX-A

status power

Description

Obtains the power status.

Syntax

status power

Selective Parameter

None

Typed Parameter

None

Return Value

status power {power-on,stand-by}

(The current status of the power returns.)

callog

Description

Obtains the call logs.

Syntax

callog

Selective Parameter

None

Typed Parameter

None

Return Value

callog

S-DATE S-TIME E-DATE E-TIME DUR /IDX/ /NUM/ INCCAL LMD MCU

LNM IP-T CC CHA /UN/

:

(Up to 100 of the latest logs are displayed.)

Description of Code

Code	Description	Character String
S-DATE	Conference start date	MM-DD-YYYY
S-TIME	Conference start time	HH:MM:SS
E-DATE	Conference end date	MM-DD-YYYY
E-TIME	Conference end time	HH:MM:SS
DURation	Duration time	Numeric value
/InDeX/	Phonebook index of a remote party	
/NUMber/	Line number/IP address of a remote party	
INCome CALI	Incoming/Calling	incom-no-connected,income-co nected, dialout-gui,dialout-ext,dialout-w eb

PCS-XG80/XG55/XA80/XA55/XL55 External Command Reference

Line MoDe	Line I/F	lan,bri,speech,sip
MCU mode	MCU mode	p-p,mcu
Line NuMber	Number of Lines(H.320)	Numeric value
IP-Tx	Transmission bit rate(IP)	Numeric value
Cause Code	Cause code	Numeric value (See APPENDIX-B)
CHArge	Fare	Not used(always 0)
/UserName/	User	Characters

remcom

Description

Remote Commander Emulation

Syntax

remcom {0-255*} (remocon is also available.)

*Values which are listed below are only used

Selective Parameter

None

Typed Parameter

None

Return Value

None

Remote Commander Code Table-

Code	Description	Remarks
0	1	Numeric key
1	2, A,B,C	Numeric key
2	3, D,E,F	Numeric key
3	4, G,H,I	Numeric key
4	5, K,L,M	Numeric key
5	6, M,N,O	Numeric key
6	7, P,Q,R,S	Numeric key
7	8, T,U,V	Numeric key
8	9, W,X,Y,Z	Numeric key
9	0	Numeric key
10	*	
11	#, .(DOT)	
16	MIC	toggle ON/OFF
17	CONNECT	
18	VOLUME +	
19	VOLUME -	

21	Power	
23	CAMERA	
30	ZOOM TELE	
31	ZOOM WIDE	
45	DISCONNECT	
52	BACK SPACE	
58	TOOLS	
65	VIDEO INPUT	
95	F1	Function key
96	F2	Function key
97	F3	Function key
98	F4	Function key
102	RETURN	
104	LAYOUT	
107	PRESENTATION	
110	ENTER	
111	↑	Cursor moving key
115	→	Cursor moving key
119	↓	Cursor moving key
123	←	Cursor moving key
144	Stops the camera operation command or executes the preset command.	Enter this command immediately after camera operation commands (ZOOM TELE, ZOOM WIDE, ↑, →, ↓, ←)to stop camera operation, or enter this command immediately after the desired preset number to execute the preset command.
192	“1” button pressed longer	Numeric key pressed longer
193	“2” button pressed longer	Numeric key pressed longer
194	“3” button pressed longer	Numeric key pressed longer
195	“4” button pressed longer	Numeric key pressed longer
196	“5” button pressed longer	Numeric key pressed longer
197	“6” button pressed longer	Numeric key pressed longer

networktest

Description

Checks the network routing.

Syntax

```
networktest {lan1,lan2} /IP_ADDR/
```

Selective Parameter

LINE I/F

lan1 : Performs the routing check for LAN1.

lan2 : Performs the routing check for LAN2.

* For PCS-XG80/XA80

Typed Parameter

IP_ADDR : IP address of the target terminal (IPv4 format)

Return Value

networktest

LINE I/F (lan1,lan2)

IP Address of the target terminal

Result of check for the gateway (gateway-ok, gateway-ng)

Result of check for PING (ping-ok, ping-ng)

Packet loss when sending a PING (Unit:%)

RTT when sending a PING (Unit: ms)

H.323 communication availability (h323-ok, h323-ng)

Number of HOPs when sending a TRACEROUTE

RTT when sending a TRACEROUTE (Unit: ms)

broadcast

Description

Selects the broadcast mode in multipoint connection.

Syntax

`broadcast {split,voice,near,a,b,c,d,e,splitfixed-near, splitfixed-a, splitfixed-b, splitfixed-c, splitfixed-d, splitfixed-e,stop-near}`

Selective Parameter

Broadcast Mode

split :	Selects the split mode (available only for the endpoint with MCU software installed)
voice :	Selects the voice activate mode (available only for the endpoint with MCU software installed)
near :	Selects the self broadcast mode to broadcast the local picture.
a :	Selects the A broadcast mode to broadcast the first-connected terminal's picture.(available only for the endpoint with MCU software installed)
b :	Selects the B broadcast mode to broadcast the second-connected terminal's picture. (available only for the endpoint with MCU software installed)
c :	Selects the C broadcast mode to broadcast the third-connected terminal's picture. (available only for the endpoint with MCU software installed)
d :	Selects the D broadcast mode to broadcast the fourth-connected terminal's picture. (available only for the endpoint with MCU software installed)
e :	Selects the E broadcast mode to broadcast the fifth-connected terminal's picture. (available only for the endpoint with MCU software installed)
splitfixed-near :	Selects the Split (Near end fixed) mode to fix the local picture in the specified window. (available only for the endpoint with MCU software installed)

splitfixed-a :	Selects the Split (A fixed) mode to fix the first-connected terminal's picture in the specified window. (available only for the endpoint with MCU software installed)
splitfixed-b :	Selects the Split (B fixed) mode to fix the second-connected terminal's picture in the specified window. (available only for the endpoint with MCU software installed)
splitfixed-c :	Selects the Split (C fixed) mode to fix the third-connected terminal's picture in the specified window. (available only for the endpoint with MCU software installed)
splitfixed-d :	Selects the Split (D fixed) mode to fix the fourth-connected terminal's picture in the specified window. (available only for the endpoint with MCU software installed)
splitfixed-e :	Selects the Split (E fixed) mode to fix the fifth-connected terminal's picture in the specified window. (available only for the endpoint with MCU software installed)
stop-near :	Cancels the Self Broadcast mode.(available only for the sub-terminal)

Typed Parameter

None

Return Value

broadcast

Broadcast mode (Selected mode)

home_bg_mode

*For PCS-XG80/XG55 of Ver2.3 and later, PCS-XA80/XA55/XL55 of All version

Description

Directly changes the background image for Home screen

Syntax

```
home_bg_mode {custom,default}
```

Selective Parameter

Background of Home Screen

custom :	Sets a custom image for the background of the home screen.
default :	Returns the background to default.

Typed Parameter

none

Return Value

```
home_bg_mode {custom,default}
```

(The current status of the background setting returns.)

APPENDIX-A Status Code

No.	Description
0	not available (no option card fitted)
1	network detected but no call in progress
2	call in progress
3	connected
4	call failed

APPENDIX-B Cause Code

Under Construction

APPENDIX-C Time Zone

***** Africa/*****

Africa/Abidjan,
Africa/Accra,
Africa/Addis/Ababa,
Africa/Algiers,
Africa/Asmera,
Africa/Bamako,
Africa/Bangui,
Africa/Banjul,
Africa/Bissau,
Africa/Blantyre,
Africa/Brazzaville,
Africa/Bujumbura,
Africa/Cairo,
Africa/Casablanca,
Africa/Ceuta,
Africa/Conakry,
Africa/Dakar,
Africa/Dar/es/Salaam,
Africa/Djibouti,
Africa/Douala,
Africa/El/Aaiun,
Africa/Freetown,
Africa/Gaborone,
Africa/Harare,
Africa/Johannesburg,
Africa/Kampala,
Africa/Khartoum,
Africa/Kigali,
Africa/Kinshasa,
Africa/Lagos,
Africa/Libreville,
Africa/Lome,
Africa/Luanda,
Africa/Lubumbashi,

Africa/Lusaka,
Africa/Malabo,
Africa/Maputo,
Africa/Maseru,
Africa/Mbabane,
Africa/Mogadishu,
Africa/Monrovia,
Africa/Nairobi,
Africa/Ndjamena,
Africa/Niamey,
Africa/Nouakchott,
Africa/Ouagadougou,
Africa/Porto/Novo,
Africa/Sao/Tome,
Africa/Timbuktu,
Africa/Tripoli,
Africa/Tunis,
Africa/Windhoek,

***** America/ *****

America/Adak,
America/Anchorage,
America/Anguilla,
America/Antigua,
America/Araguaina,
America/Argentina/Buenos/Aires,
America/Argentina/Catamarca,
America/Argentina/ComodRivadavia,
America/Argentina/Cordoba,
America/Argentina/Jujuy,
America/Argentina/La/Rioja,
America/Argentina/San/Juan,
America/Argentina/Tucuman,
America/Argentina/Ushuaia,
America/Aruba,
America/Asuncion,

America/Atikokan,
America/Atka,
America/Bahia,
America/Barbados,
America/Belem,
America/Belize,
America/Blanc/Sablon,
America/Boa/Vista,
America/Bogota,
America/Boise,
America/Buenos/Aires,
America/Cambridge/Bay,
America/Campo/Grande,
America/Cancun,
America/Caracas,
America/Catamarca,
America/Cayenne,
America/Cayman,
America/Chicago,
America/Chihuahua,
America/Coral/Harbour,
America/Cordoba,
America/Costa/Rica,
America/Cuiaba,
America/Curacao,
America/Danmarkshavn,
America/Dawson,
America/Dawson/Creek,
America/Denver,
America/Detroit,
America/Dominica,
America/Edmonton,
America/Eirunepe,
America/El/Salvador,
America/Ensenada,
America/Fort/Wayne,

America/Fortaleza,
America/Glace/Bay,
America/Godthab,
America/Goose/Bay,
America/Grand/Turk,
America/Grenada,
America/Guadeloupe,
America/Guatemala,
America/Guayaquil,
America/Guyana,
America/Halifax,
America/Havana,
America/Hermosillo,
America/Indiana/Indianapolis,
America/Indiana/Knox,
America/Indiana/Marengo,
America/Indiana/Petersburg,
America/Indiana/Vevay,
America/Indiana/Vincennes,
America/Indianapolis,
America/Inuvik,
America/Iqaluit,
America/Jamaica,
America/Jujuy,
America/Juneau,
America/Kentucky/Louisville,
America/Kentucky/Monticello,
America/Knox/IN,
America/La/Paz,
America/Lima,
America/Los/Angeles,
America/Louisville,
America/Maceio,
America/Managua,
America/Manaus,
America/Martinique,

America/Mazatlan,
America/Mendoza,
America/Menominee,
America/Merida,
America/Mexico/City,
America/Miquelon,
America/Moncton,
America/Monterrey,
America/Montevideo,
America/Montreal,
America/Montserrat,
America/Nassau,
America/New/York,
America/Nipigon,
America/Nome,
America/Noronha,
America/North/Dakota/Center,
America/North/Dakota/New/Salem,
America/Panama,
America/Pangnirtung,
America/Paramaribo,
America/Phoenix,
America/Port/au/Prince,
America/Port/of/Spain,
America/Porto/Acre,
America/Porto/Velho,
America/Puerto/Rico,
America/Rainy/River,
America/Rankin/Inlet,
America/Recife,
America/Regina,
America/Rio/Branco,
America/Rosario,
America/Santiago,
America/Santo/Domingo,
America/Sao/Paulo,

America/Scoresbysund,
America/Shiprock,
America/St/Johns,
America/St/Kitts,
America/St/Lucia,
America/St/Thomas,
America/St/Vincent,
America/Swift/Current,
America/Tegucigalpa,
America/Thule,
America/Thunder/Bay,
America/Tijuana,
America/Toronto,
America/Tortola,
America/Vancouver,
America/Virgin,
America/Whitehorse,
America/Winnipeg,
America/Yakutat,
America/Yellowknife,

***** Antarctica/ *****

Antarctica/Casey,
Antarctica/Davis,
Antarctica/DumontDUrville,
Antarctica/Mawson,
Antarctica/McMurdo,
Antarctica/Palmer,
Antarctica/Rothera,
Antarctica/South/Pole,
Antarctica/Syowa,
Antarctica/Vostok,

***** Arctic/ *****

Arctic/Longyearbyen,

***** Asia/ *****

Asia/Aden,
Asia/Almaty,
Asia/Amman,
Asia/Anadyr,
Asia/Aqtau,
Asia/Aqtobe,
Asia/Ashgabat,
Asia/Ashkhabad,
Asia/Baghdad,
Asia/Bahrain,
Asia/Baku,
Asia/Bangkok,
Asia/Beirut,
Asia/Bishkek,
Asia/Brunei,
Asia/Calcutta,
Asia/Choibalsan,
Asia/Chongqing,
Asia/Chungking,
Asia/Colombo,
Asia/Dacca,
Asia/Damascus,
Asia/Dhaka,
Asia/Dili,
Asia/Dubai,
Asia/Dushanbe,
Asia/Gaza,
Asia/Harbin,
Asia/Hong/Kong,
Asia/Hovd,
Asia/Irkutsk,
Asia/Istanbul,
Asia/Jakarta,
Asia/Jayapura,
Asia/Jerusalem,

Asia/Kabul,
Asia/Kamchatka,
Asia/Karachi,
Asia/Kashgar,
Asia/Katmandu,
Asia/Krasnoyarsk,
Asia/Kuala/Lumpur,
Asia/Kuching,
Asia/Kuwait,
Asia/Macao,
Asia/Macau,
Asia/Magadan,
Asia/Makassar,
Asia/Manila,
Asia/Muscat,
Asia/Nicosia,
Asia/Novosibirsk,
Asia/Omsk,
Asia/Oral,
Asia/Phnom/Penh,
Asia/Pontianak,
Asia/Pyongyang,
Asia/Qatar,
Asia/Qyzylorda,
Asia/Rangoon,
Asia/Riyadh,
Asia/Riyadh87,
Asia/Riyadh88,
Asia/Riyadh89,
Asia/Saigon,
Asia/Sakhalin,
Asia/Samarkand,
Asia/Seoul,
Asia/Shanghai,
Asia/Singapore,
Asia/Taipei,

Asia/Tashkent,
Asia/Tbilisi,
Asia/Tehran,
Asia/Tel/Aviv,
Asia/Thimbu,
Asia/Thimphu,
Asia/Tokyo,
Asia/Ujung/Pandang,
Asia/Ulaanbaatar,
Asia/Ulan/Bator,
Asia/Urumqi,
Asia/Vientiane,
Asia/Vladivostok,
Asia/Yakutsk,
Asia/Yekaterinburg,
Asia/Yerevan,

***** Atlantic/ *****

Atlantic/Azores,
Atlantic/Bermuda,
Atlantic/Canary,
Atlantic/Cape/Verde,
Atlantic/Faeroe,
Atlantic/Jan/Mayen,
Atlantic/Madeira,
Atlantic/Reykjavik,
Atlantic/South/Georgia,
Atlantic/St/Helena,
Atlantic/Stanley,

***** Australia/ *****

Australia/ACT,
Australia/Adelaide,
Australia/Brisbane,
Australia/Broken/Hill,
Australia/Canberra,

Australia/Currie,
Australia/Darwin,
Australia/Hobart,
Australia/LHI,
Australia/Lindeman,
Australia/Lord/Howe,
Australia/Melbourne,
Australia/NSW,
Australia/North,
Australia/Perth,
Australia/Queensland,
Australia/South,
Australia/Sydney,
Australia/Tasmania,
Australia/Victoria,
Australia/West,
Australia/Yancowinna,

***** Brazil/ *****

Brazil/Acre,
Brazil/DeNoronha,
Brazil/East,
Brazil/West,

***** Canada/ *****

Canada/Atlantic,
Canada/Central,
Canada/East/Saskatchewan,
Canada/Eastern,
Canada/Mountain,
Canada/Newfoundland,
Canada/Pacific,
Canada/Saskatchewan,
Canada/Yukon,

***** Chile/ *****

Chile/Continental,
Chile/EasterIsland,

***** Cuba *****

Cuba,

***** Egypt *****

Egypt,

***** Eire *****

Eire,

***** Etc/ *****

Etc/GMT,
Etc/GMT+1,
Etc/GMT+2,
Etc/GMT+3,
Etc/GMT+4,
Etc/GMT+5,
Etc/GMT+6,
Etc/GMT+7,
Etc/GMT+8,
Etc/GMT+9,
Etc/GMT+10,
Etc/GMT+11,
Etc/GMT+12,
Etc/GMT-1,
Etc/GMT-2,
Etc/GMT-3,
Etc/GMT-4,
Etc/GMT-5,
Etc/GMT-6,
Etc/GMT-7,
Etc/GMT-8,
Etc/GMT-9,
Etc/GMT-10,

Etc/GMT-11,

Etc/GMT-12,

Etc/GMT-13,

Etc/GMT-14,

***** Europe/ *****

Europe/Amsterdam,

Europe/Andorra,

Europe/Athens,

Europe/Belfast,

Europe/Belgrade,

Europe/Berlin,

Europe/Bratislava,

Europe/Brussels,

Europe/Bucharest,

Europe/Budapest,

Europe/Chisinau,

Europe/Copenhagen,

Europe/Dublin,

Europe/Gibraltar,

Europe/Guernsey,

Europe/Helsinki,

Europe/Isle/of/Man,

Europe/Istanbul,

Europe/Jersey,

Europe/Kaliningrad,

Europe/Kiev,

Europe/Lisbon,

Europe/Ljubljana,

Europe/London,

Europe/Luxembourg,

Europe/Madrid,

Europe/Malta,

Europe/Mariehamn,

Europe/Minsk,

Europe/Monaco,

Europe/Moscow,
Europe/Nicosia,
Europe/Oslo,
Europe/Paris,
Europe/Prague,
Europe/Riga,
Europe/Rome,
Europe/Samara,
Europe/San/Marino,
Europe/Sarajevo,
Europe/Simferopol,
Europe/Skopje,
Europe/Sofia,
Europe/Stockholm,
Europe/Tallinn,
Europe/Tirane,
Europe/Tiraspol,
Europe/Uzhgorod,
Europe/Vaduz,
Europe/Vatican,
Europe/Vienna,
Europe/Vilnius,
Europe/Volgograd,
Europe/Warsaw,
Europe/Zagreb,
Europe/Zaporozhye,
Europe/Zurich,

***** Iceland *****

Iceland,

***** Indian/ *****

Indian/Antananarivo,
Indian/Chagos,
Indian/Christmas,
Indian/Cocos,

Indian/Comoro,
Indian/Kerguelen,
Indian/Mahe,
Indian/Maldives,
Indian/Mauritius,
Indian/Mayotte,
Indian/Reunion,

***** Iran *****

Iran

***** Israel *****

Israel

***** Jamica *****

Jamaica

***** Kwajalein *****

Kwajalein

***** Libya *****

Libya

***** Mexico/ *****

Mexico-BajaNorte

Mexico-BajaSur

Mexico-General

***** Mideast/ *****

Mideast-Riyadh87

Mideast-Riyadh88

Mideast-Riyadh89

***** Navajo *****

Navajo

***** Pacific/ *****

Pacific-Apia

Pacific-Auckland

Pacific-Chatham

Pacific-Easter

Pacific-Efate

Pacific-Enderbury

Pacific-Fakaofu

Pacific-Fiji

Pacific-Funafuti

Pacific-Galapagos

Pacific-Gambier

Pacific-Guadalcanal

Pacific-Guam

Pacific-Honolulu

Pacific-Johnston

Pacific-Kiritimati

Pacific-Kosrae

Pacific-Kwajalein

Pacific-Majuro

Pacific-Marquesas

Pacific-Midway

Pacific-Nauru

Pacific-Niue

Pacific-Norfolk

Pacific-Noumea

Pacific-Pago-Pago

Pacific-Palau

Pacific-Pitcairn

Pacific-Ponape

Pacific-Port-Moresby

Pacific-Rarotonga

Pacific-Saipan

Pacific-Samoa

Pacific-Tahiti

Pacific-Tarawa

Pacific-Tongatapu

Pacific-Truk

Pacific-Wake

Pacific-Wallis

Pacific-Yap

***** US/ *****

US-Alaska

US-Aleutian

US-Arizona

US-Central

US-East-Indiana

US-Eastern

US-Hawaii

US-Indiana-Starke

US-Michigan

US-Mountain

US-Pacific

US-Pacific-New

US-Samoa

APPENDIX-D Thumbnail List for Phone Book

Thumbnail A thumbnail-person



Thumbnail B thumbnail-personstv



Thumbnail C thumbnail-personpc



Thumbnail D thumbnail-persondesk



Thumbnail E thumbnail-room



Thumbnail F thumbnail-buildings



APPENDIX-E Country/Region List

Country/Region ID	ISDN Country No.	Country/Region
1	93	Afghanistan
2	1	Alaska
3	355	Albania
4	213	Algeria
5	684	American Samoa
6	376	Andorra
7	244	Angola
8	1-264	Anguilla
9	67212	Antarctica (Casey Base)
10	64240	Antarctica (Scott Base)
11	1-268	Antigua/Barbuda
12	54	Argentina
13	374	Armenia
14	297	Aruba
15	247	Ascension Island
16	61	Australia
17	43	Austria
18	43	Austria (Vienna)
19	994	Azerbaijan
20	1-242	Bahamas
21	973	Bahrain
22	880	Bangladesh
23	1-246	Barbados
24	375	Belarus
25	32	Belgium
26	501	Belize
27	229	Benin
28	1-441	Bermuda
29	975	Bhutan
30	591	Bolivia
31	387	Bosnia & Herzegovina
32	267	Botswana
33	55	Brazil
34	1-284	British Virgin Islands

35	673	Brunei
36	359	Bulgaria
37	226	Burkina Faso
38	257	Burundi
39	855	Cambodia
40	237	Cameroon
41	1	Canada
42	238	Cape Verde Islands
43	1-345	Cayman Islands
44	236	Central African Republic
45	235	Chad
46	56	Chile
47	86	China (PRC)
48	61	Christmas Island
49	61	Cocos Island
50	57	Colombia
51	269	Comoros
52	242	Congo
53	682	Cook Islands
54	506	Costa Rica
55	385	Croatia
56	53	Cuba
57	357	Cyprus
58	420	Czech Republic
59	243	Dem. Rep. of Congo (Zaire)
60	45	Denmark
61	246	Diego Garcia
62	253	Djibouti
63	1-767	Dominica
64	1-809	Dominican Republic
65	593	Ecuador
66	20	Egypt
67	503	El Salvador
68	240	Equatorial Guinea
69	291	Eritrea
70	372	Estonia

71	251	Ethiopia
72	298	Faeroe Islands
73	500	Falkland Islands
74	679	Fiji Islands
75	358	Finland
76	33	France
77	596	French Antilles
78	594	French Guiana
79	689	French Polynesia
80	241	Gabon
81	220	Gambia
82	995	Georgia
83	49	Germany
84	233	Ghana
85	350	Gibraltar
86	30	Greece
87	299	Greenland
88	1-473	Grenada
89	590	Guadeloupe
90	1-671	Guam
91	5399	Guantanamo Bay
92	502	Guatemala
93	224	Guinea (PRP)
94	245	Guinea-Bissau
95	592	Guyana
96	509	Haiti
97	1	Hawaii
98	504	Honduras
99	852	Hong Kong
100	36	Hungary
101	354	Iceland
102	91	India
103	62	Indonesia
104	871	Inmarsat ATL E
105	874	Inmarsat ATL W
106	873	Inmarsat IND OC

107	872	Inmarsat PAC OC
108	98	Iran
109	964	Iraq
110	353	Ireland
111	972	Israel
112	390	Italy
113	39	Italy (Firenze)
114	225	Ivory Coast (Cote d'Ivoire)
115	1-876	Jamaica
116	81	Japan
117	962	Jordan
118	7	Kazakhstan
119	254	Kenya
120	686	Kiribati
121	850	Korea (North)
122	82	Korea (South)
123	965	Kuwait
124	7	Kyrgyzstan
125	856	Laos
126	371	Latvia
127	961	Lebanon
128	266	Lesotho
129	231	Liberia
130	218	Libya
131	41-75	Liechtenstein
132	370	Lithuania
133	352	Luxembourg
134	853	Macau
135	389	Macedonia
136	261	Madagascar
137	265	Malawi
138	60	Malaysia
139	60	Malaysia (Kuala Lumpur & Penang only)
140	960	Maldives
141	223	Mali Republic
142	356	Malta

143	692	Marshall Islands
144	596	Martinique
145	222	Mauritania
146	230	Mauritius
147	2696	Mayotte Island
148	52	Mexico
149	691	Micronesia
150	373	Moldova
151	377	Monaco
152	976	Mongolia
153	1-664	Montserrat
154	212	Morocco
155	258	Mozambique
156	95	Myanmar (Burma)
157	264	Namibia
158	674	Nauru
159	977	Nepal
160	31	Netherlands
161	599	Netherlands Antilles
162	687	New Caledonia
163	64	New Zealand
164	505	Nicaragua
165	227	Niger
166	234	Nigeria
167	683	Niue
168	672	Norfolk Island
169	1-670	Northern Mariana Islands
170	47	Norway
171	968	Oman
172	92	Pakistan
173	680	Palau
174	507	Panama
175	675	Papua New Guinea
176	595	Paraguay
177	51	Peru
178	63	Philippines

179	48	Poland
180	351	Portugal
181	1-787	Puerto Rico
182	974	Qatar
183	262	Reunion Island
184	40	Romania
185	7	Russia
186	250	Rwanda
187	1-670	Saipan
188	378	San Marino
189	239	Sao Tome & Principe
190	966	Saudi Arabia
191	221	Senegal
192	248	Seychelles Islands
193	232	Sierra Leone
194	65	Singapore
195	42	Slovakia
196	386	Slovenia
197	677	Solomon Islands
198	252	Somalia
199	27	South Africa
200	34	Spain
201	94	Sri Lanka
202	1-869	St. Christopher & Nevis
203	290	St. Helena
204	1-869	St. Kitts & Nevis
205	1-758	St. Lucia
206	508	St. Pierre & Miquelon
207	1-784	St. Vincent & Grenadines
208	249	Sudan
209	597	Suriname
210	268	Swaziland
211	46	Sweden
212	41	Switzerland
213	963	Syria
214	7	Tadzhikistan

215	886	Taiwan
216	255	Tanzania
217	66	Thailand
218	228	Togo
219	676	Tonga
220	1-868	Trinidad & Tobago
221	216	Tunisia
222	90	Turkey
223	7	Turkmenistan
224	1-649	Turks & Caicos Islands
225	688	Tuvalu
226	256	Uganda
227	380	Ukraine
228	971	United Arab Emirates UAE
229	44	United Kingdom UK
230	1	United States USA
231	598	Uruguay
232	1-340	US Virgin Islands
233	7	Uzbekistan
234	678	Vanuatu
235	39	Vatican City
236	58	Venezuela
237	84	Vietnam
238	681	Wallis & Futuna Islands
239	685	Western Samoa
240	967	Yemen
241	381	Yugoslavia
242	260	Zambia
243	259	Zanzibar
244	263	Zimbabwe