

HD VIDEO COMMUNICATION SYSTEM

# PCS-XG80

External Command Reference

Preliminary Edition

## History

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## About This Document

This document is a Command Reference which explains about external control commands for PCS-XG80.

## 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 “/”. Most of commands don't allow us to omit slashes.

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.

G) 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.

H) Maximum length

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

I) 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"

J) Camera control commands

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

## **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}
```

### **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

### **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
```

## **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:

Selecting the audio compression format when conducting a voice meeting

- speech-auto : Selects appropriate format automatically
- speech-u : Selects G.711 $\mu$ -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: Select 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 : Disables the LAN prefix.
- prefixlan-on : Enables the LAN prefix.

### Typed Parameter

- BRI PREFIX A : When prefix-a is selected, entry here is used as the prefix number.
- BRI PREFIX B : When prefix-b is selected, entry here is used as the prefix number.
- BRI PREFIX C : When prefix-c is selected, entry here is used as the prefix number.
- LAN PREFIX : When LAN Prefix is selected, entry here is used as the prefix number.

### 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 answer setup settings.

### **Syntax**

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

### **Selective Parameter**

#### Auto Answer

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

#### ISDN MSN

dialin-on : Select when you use the Multiple Subscriber Number.  
dialin-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.

### **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

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

In case of setting "MIC on Answer" to On

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

## **setup save ip-comm**

### **Description**

Configures the communication mode settings (IP communication).

### **Syntax**

```
setup save 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 simultaneously. |

Audio Mode For Transmission (Multiple selections available)

- |                   |  |
|-------------------|--|
| 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 (Multiple selections available)

- |             |   |
|-------------|---|
| 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 each other's cameras.

pp-fecc-off : Disables the control of each other's 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 (Multiple selections available)

- 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 (Multiple selections available)

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

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.

**Typed Parameter**

- TX BITRATE : Enter the transmission bit rate (kbps).
- RX BITRATE : Enter the reception bit rate (kbps).

## Return Value

setup save complete ip-comm

## Examples

In case that the following settings are configured

Individual Settings for Transmission/Reception: On

Audio Mode For Transmission: G.722, MPEG4 AAC

Audio Mode For Reception:G.711, G.728, G.722, MPEG4 AAC

Far End Camera Control: On

H.239 Presentation: On

H.239 Ratio: 1/2

Screen Size To Be Transmitted: Auto

Screen Size To Be Received: W4CIF, 720(HD)

Video Mode For Transmission: H.264

Video Mode For Reception: H.263, H.264

Video Frame During Transmission: Auto

Video Frame During Reception: 60fps

Transmission Bit Rate: 4096kbps

Reception Bit Rate: 8192kbps

```
setup save ip-comm inccal-sepa-on pptx-g722 pptx-mpeg4audio pprx-g711
pprx-g728 pprx-g722 pprx-mpeg4audio pp-fecc-on h239-on h239-rate-1-2
pptx-scrnsz-auto pprx-w4cif pprx-hd720 pptx-h264 pprx-h263 pprx-h264
pptx-autofps pprx-60fps /4096/8192/
```

## **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}
    [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

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

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 (Multiple selections available)

- 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 each other's cameras.
- pp-fecc-off : Disables the control of each other's 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 (Multiple selections available)	
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**

setup save complete isdn-comm

**Examples**

In case that the following settings are configured

- ISDN Bandwidth (Dial):12B
- ISDN Bandwidth (Answer): 12B
- Audio Mode: G.722, MPEG4 AAC
- Far End Camera Control: Off
- H.239 Presentation: On
- H.239 Ratio: 1/2
- Screen Size: Auto
- Video Mode: H.263, H.264
- Video Frame: Auto

```
setup save isdn-comm pptx-12b pprx-12b pp-g722 pp-mpeg4audio  
pp-fecc-off h239-on h239-rate-1-2 pp-scrnsz-auto pp-h263 pp-h264  
pp-autofps
```

## **setup save sip-comm**

### **Description**

Configures the communication mode settings (SIP communication).

### **Syntax**

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

### **Selective Parameter**

Audio Mode (Multiple selections available)

g711 :	Selects G.711.
g728 :	Selects G.728.
g722 :	Selects G.722.

Far End Camera Control

fecc-on :	Enables the control of each other's cameras.
fecc-off :	Disables the control of each other's 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 (Multiple selections available)

h261 :	Selects H.261.
h263 :	Selects H.263.
h264 :	Selects H.264.
mpeg4video	Selects MPEG4.

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 (kbps) .(16 to 10240)  
COMM BITRATE :      Enter the communication bit rate (kbps) .(16 to 10240)

### Return Value

setup save complete sip-comm

### Examples

In case that the following settings are configured

Audio Mode: 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 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}
                {micseiaux-audio1,micseiaux-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}
                {recoutputmode-stereo,recoutputmode-mono}
                {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.

#### Mic Select (MIC)

micseismic-mic :	Selects use of the PCS-A1/A3 microphone.
micseismic-ecmic :	Selects use of PCSA-A7 echo cancelling microphone.
micseismic-audio1 :	Selects to input the audio of external equipment connected to the AUDIO 1 IN.
micseismic-audio2 :	Selects to input the audio of external equipment connected to the AUDIO 2 IN.

#### Mic Select (AUX)

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

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

**Beep Sound**

beepvol-off : Does not output a beep sound.  
 beepvol-low : Softly outputs a beep sound.  
 beepvol-middle : Outputs a beep sound..  
 beepvol-high : Loudly outputs a beep sound.

**Sound Effect**

sevol-off : Does not output sounds when the system starts, connection starts or it ends.  
 sevol-low : Softly outputs sounds when the system starts, connection starts or it ends.  
 sevol-middle : Outputs sounds when the system starts, connection starts or it ends.  
 sevol-high : Loudly output sounds when the system starts, connection starts or it ends.

**Dial Tone**

dialtonevol-off : Does not output a dial tone.  
 dialtonevol-low : Softly outputs a dial tone.  
 dialtonevol-middle : Outputs a dial tone.  
 dialtonevol-high : Loudly outputs a dial tone.

**Ringer Tone**

ringtonevol-off : Does not output a ringer tone.  
 ringtonevol-low : Softly outputs a ringer tone.  
 ringtonevol-middle : Outputs a ringer tone.  
 ringtonevol-high : Loudly output a ringer tone.

**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  
REC OUT Mode: Stereo  
Beep Sound: Middle  
Sound Effect: Middle  
Dial Tone: Off  
Ringer Tone: Off  
Audio Input Delay Amount: 0ms  
Audio Output Delay Amount: 30ms

```
setup save audio input-mic micselmic-mic ec-on lipsync-off inputmode-stereo  
outputmode-stereo auxlocalout-off micinv-on recoutputmode-stereo  
beepvol-middle sevol-middle dialtonevol-off ringtonevol-off //0/30/
```

In case of disabling the internal echo canceller.

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

In case of setting "Audio Input Delay Amount" to 50ms.

```
setup save audio //50/
```

## **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}
{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}
{svideoaux-audio1, svideoaux-audio2}
/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.

Presentation Screen

- presen-full : Displays the picture from the external equipment connected to the RGB IN connector in full screen mode.
- presen-pandp : Displays the pictures from the external equipment connected to the RGB IN connector and S VIDEO IN connector in PandP mode.
- presen-sidebyside : Displays the pictures from the 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 the external equipment connected to the HDMI OUT connector.
- monout-rgb : Outputs the video signal to the external equipment connected to the RGB OUT connector.
- monout-hdmi-rgb : Outputs the video signal to the 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 the external equipment.
- camerainp-mic-aux : Inputs audio both from the microphone and external equipment.

Mic Select (MIC) With "Camera" Selected

- cameramic-mic : Selects to use the PCS-A1/A3 Microphone.
- cameramic-ec-mic : Selects to use the PCSA-A7 echo canceling microphone.
- cameramic-audio1 : Selects to input the audio of external equipment connected to the AUDIO 1 IN jacks.
- cameramic-audio2 : Selects to input the audio of external equipment connected to the AUDIO 2 IN jacks.

Mic Select (AUX) With "Camera" Selected

- cameraaux-audio1 : Selects to input the audio of external equipment connected to the AUDIO 1 IN jacks.
- cameraaux-audio2 : Selects to input the audio of external equipment connected to the AUDIO 2 IN jacks.

Input Select With "RGB" Selected

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

Mic Select (MIC) With "RGB" Selected

- rgbmic-mic : Selects to use the PCS-A1/A3 Microphone.
- rgbmic-ec-mic : Selects to use the PCSA-A7 echo canceling microphone.
- rgbmic-audio1 : Selects to input the audio of external equipment connected to the AUDIO 1 IN jacks.
- rgbmic-audio2 : Selects to input the audio of external equipment connected to the AUDIO 2 IN jacks.

Mic Select (AUX) With "RGB" Selected

- rgbaux-audio1 : Selects to input the audio of external equipment connected to the AUDIO 1 IN jacks.
- rgbaux-audio2 : Selects to input the audio of external equipment connected to the AUDIO 2 IN jacks.

Input Select With "YPbPr" Selected

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

Mic Select (MIC) With “YPbPr” Selected

- ybprrmic-mic : Selects to use the PCS-A1/A3 Microphone.
- ybprrmic-ec-mic : Selects to use the PCSA-A7 echo canceling microphone.
- ybprrmic-audio1 : Selects to input the audio of external equipment connected to the AUDIO 1 IN jacks.
- ybprrmic-audio2 : Selects to input the audio of external equipment connected to the AUDIO 2 IN jacks.

Mic Select (AUX) With “YPbPr” Selected

- ybprraux-audio1 : Selects to input the audio of external equipment connected to the AUDIO 1 IN jacks.
- ybprraux-audio2 : Selects to input the audio of external equipment connected to the AUDIO 2 IN jacks.

Input Select With “S-Video” Selected

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

Mic Select (MIC) With “S-Video” Selected

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

Mic Select (AUX) With “S-Video” Selected

- svideoaux-audio1 : Selects to input the audio of external equipment connected to the AUDIO 1 IN jacks.
- svideoaux-audio2 : Selects to input the audio of external equipment connected to the AUDIO 2 IN jacks.

**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)

### 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-fullc 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 to “HANDYCAM” when YPbPr is selected.

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

## **setup save lan**

### **Description**

Configures the settings for LAN connection.

### **Syntax**

```
setup save lan {dhcp-on,dhcp-off}
               {mode-auto,mode-100f,mode-100h,mode-10f,mode-10h} {pppoe-on,pppoe-off}
               {pppoefixedip-on,pppoefixedip-off} {pppoedns-on,pppoedns-off}
               {nat-auto,nat-on,nat-off}
               /HOSTNAME/IP ADDR/NETMASK/GW ADDR/DNS ADDR P/DNS ADDR S
               /PPPOE USER/PPPOE PWD/PPPOE DNS ADDR P/PPPOE DNS ADDR S
               /WAN IP 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.

#### PPPoE

pppoe-on : 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-auto :	Enables or disables the NAT mode by automatically detecting the use of NAT. This option is effective only when you use the UPnP router.
nat-on :	Enables NAT mode.
nat-off :	Disables NAT 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.
DNS ADDR P	Enter a primary DNS address.
DNS ADDR S	Enter a secondary DNS address.
PPPOE USER	Enter a user name when you use PPPoE. (up to 129 bytes)
PPPOE PWD	Enter a password when you use PPPoE. (up to 129 bytes)
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.

### Return Value

setup save complete lan

### Examples

In case that the following 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 h323**

### **Description**

Configures the H.323 settings.

### **Syntax**

```
setup save h323 {gk-auto,gk-on,gk-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}
                {audiodouble-on,audiodouble-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.

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

Re-Order Buffer

- reorderbufauto-on : Sets the re-order buffer to “Auto”.リオーダーバッファを「自動」に設定する
- 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, 50 to 999)
- REORDER BUF SIZE : Enter the re-order buffer rate. (1 to 5)

**Return Value**

setup save complete h323

## Examples

In case that the following 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/
```

## **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. (0~65535)

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 sip1**

### **Description**

Configures the SIP settings.

### **Syntax**

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

### **Selective Parameter**

SIP Server

service-general : Use the SIP server.

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

### **Typed Parameter**

None

### **Return Value**

```
setup save complete sip1
```

## **setup save sip1-genreg**

### **Description**

Configures the SIP1 server settings.

### **Syntax**

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

### **Selective Parameter**

Transport Protocol

udp :	Use UDP.
tcp :	Use TCP.

### **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 sip1-genreg

## **setup save sip1-gen**

### **Description**

Configures the SIP1 setting without the SIP server.

### **Syntax**

setup save sip1-gen {udp,tcp} /PORT\_NUM/SIP\_DOMAIN/

### **Selective Parameter**

Transport Protocol

udp :	Use UDP.
tcp :	Use TCP.

### **Typed Parameter**

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

### **Return Value**

setup save complete sip1-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 Tokyo, Japan for ISDN lines.

```
setup save isdn ntt /Japan/
```

## **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 sub-addresses 1. (up to 39 bytes)
SUB_ADDR_2 :	Enter sub-addresses 2. (up to 39 bytes)
SPID_1 :	Enter SPID code 1. (up to 39 bytes)
SPID_2 :	Enter SPID code 2. (up to 39 bytes)

### **Return Value**

setup save complete isdn[1-6]

### **Examples**

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

```
setup save isdn1 /3//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}
{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 the level set to “Low”.
brightface-middle :	Enables the BrightFace function with the level set to “Medium”.
brightface-high :	Enables the BrightFace function with the level set to “High”.

#### Noise Reduction Filter

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

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

Image Flip for First Camera

cam1inv-on : Rotates the camera image 180 degrees when the first camera is installed on a ceiling.

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

Image Flip for Second Camera

cam2inv-on : Rotates the camera image 180 degrees when the second camera is installed on a ceiling.

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-ybpr  
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}
    {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|yy,
        dateform-yyyy-mm-dd,dateform-dd.mm.yyyy} {timedisp-on,timedisp-off}
    {termnamedisp-on,termnamedisp-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}
/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.
- camcontrolled-off : Rejects the camera control command.

### 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.

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-middle : 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-middle : 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

- termnamedisp-on : Display the local terminal name in the Home menu.
- termnamedisp-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 isplay 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.

**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 from which the clock information is obtained. (up to 39 bytes)  
 NTP\_S\_SERV : Enter the address of the secondary NTP server from which the clock information is obtained. (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} {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}
                {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}
                /MULTICAST ADDR/AUD PORT NUM/VID PORT NUM/
                MULTICAST HOP LIMIT/AMX HOP LIMIT/
    
```

### **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 (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)

- 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 Access

- 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

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

SSH Access

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

- 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

**Typed Parameter**

- MULTICAST\_ADDR : Enter the 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.

**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 of LAN2	(For next version)
LAN I/F to be used	(For next version)

## **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.
Second Call Reject	(For next version)

## **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	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Individual Settings for P-P/MCU	(For next version)
Audio Mode For Transmission (P-P)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Audio Mode For Reception (P-P)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Audio Mode For Transmission (MCU)	(For next version)
Audio Mode For Reception (MCU)	(For next version)
Far End Camera Control (P-P)	Refer to “Selective Parameter” section of “setup save ip-comm” command.
Far End Camera Control(MCU)	(For next version)
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)	(For next version)
Screen Size To Be Received (MCU)	(For next version)
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)	(For next version)
Video Mode For Reception(MCU)	(For next version)
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)	(For next version)
Video Frame During Reception(MCU)	(For next version)
All Bandwidth(MCU)	(For next version)
Transmission Bit Rate (P-P)	Unit: kbps
Reception Bit Rate (P-P)	Unit: kbps
Transmission Bit Rate (MCU)	(For next version)
Reception Bit Rate (MCU)	(For next version)

## **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 (For next version)

P-P/MCU

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) (For next version)

ISDN Bandwidth (Answer) (MCU) (For next version)

(MCU)

Audio Mode(P-P) Refer to “Selective Parameter” section of “setup save isdn-comm” command.

Audio Mode(MCU) (For next version)

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

Far End Camera Control (MCU) (For next version)

(MCU)

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)	(For next version)
Video Mode(P-P)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Video Mode(MCU)	(For next version)
Video Frame(P-P)	Refer to “Selective Parameter” section of “setup save isdn-comm” command.
Video Frame(MCU)	(For next version)

## **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.
All Bandwidth	Unit: kbps
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 Settomg	Refer to “Selective Parameter” section of “setup save audio” command.
REC OUT Mode	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 Ton	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.
- 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

DHCP Mode

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

LANMode

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

PPPoE

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

Fixed IP for PPPoE

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

DNS for a PPPoE Connection

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

NAT Mode

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

Host Name

IP Address

Network Mask

Gateway Address

Primary DNS Address

Secondary DNS Address

PPPoE User Name

PPPoE Password

Fixed IP Address for PPPoE

Primary DNS Address for PPPoE

Secondary DNS Address for  
PPPoE

WAN IP Address

LAN(SNMP)

(For next version)

## **setup load h323**

### **Description**

Loads the H.323 settings.

### **Syntax**

setup load h323

### **Selective Parameter**

None

### **Typed Parameter**

None

### **Return Value**

setup h323

Gatekeeper Mode	Refer to “Selective Parameter” section of “setup save h323” command.
Adaptive Rate Control (ARC)	Refer to “Selective Parameter” section of “setup save h323” command.
Auto Bandwidth Detection	Refer to “Selective Parameter” section of “setup save h323” command.
Packet Resend Request (ARQ)	Refer to “Selective Parameter” section of “setup save h323” command.
ARQ Buffering Time	Refer to “Selective Parameter” section of “setup save h323” command.
Forward Error Correction (FEC)	Refer to “Selective Parameter” section of “setup save h323” command.
FEC Redundancy	Refer to “Selective Parameter” section of “setup save h323” command.
Audio Duplex Transmission	Refer to “Selective Parameter” section of “setup save h323” command.
Re-Order	Refer to “Selective Parameter” section of “setup save h323” command.
Re-Order Buffer	Refer to “Selective Parameter” section of “setup save h323” command.

Shaping	Refer to “Selective Parameter” section of “setup save h323” command.
Gatekeeper IP Address	
Gatekeeper User Name	
Gatekeeper User Number	
Q.931 Port Number	
H.245 Port Number	
TCP Port Number	
UDP Port Number	
ARQBuffering Time	
Re-Order Buffer Rate	

## **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 sip1**

### **Description**

Loads the SIP1 settings.

### **Syntax**

setup load sip1

### **Selective Parameter**

None

### **Typed Parameter**

None

### **Return**

setup sip1

SIP Server

Refer to “Selective Parameter” section of “setup save sip1” command.

[GENERAL REG]

Transport Protocol

Refer to “Selective Parameter” section of “setup save sip1genreg” command..

[GENERAL REG]

Port Number

[GENERAL REG]

SIP Domain

[GENERAL REG]

Registration User Name

[GENERAL REG]

Password

[GENERAL REG]

SIP Server Address

[GENERAL REG]

SIP Server Port

[GENERAL]

Refer to “Selective Parameter” section of “setup save sip1gen” command.

Transport Protocol

[GENERAL] Port Number

[GENERAL] SIP Domain

## **setup load isdn**

### **Description**

Configures the basic 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

[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.

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	Refer to “Selective Parameter” section of “setup save general” command.
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.
Volume	Refer to “Selective Parameter” section of “setup save general” command.
LAN Status	Refer to “Selective Parameter” section of “setup save general” command.

LAN 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.
Background Pattern	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.
Time Information of Remote Sites	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)	(For next version)
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)	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 (Administorator)	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.
Network Quality Measuremant Reception	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

1080i Mode	“setup save admin“ command. 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.
Multicast Address	
Audio Port Number	
Video Port Number	
Multicast Hop Number	
AMX Hop	
Port Number for Quality Measurement	(For next version)

## **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 :           Entr 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}
{prifix-off,prifix-a,prifix-b,prifix-c} {prifixlan-on,prifixlan-off}
{thumbnail-non,thumbnail-person,thumbnail-persontv,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 : Select when you want to use LAN as line interface for dialing.
- bri : Select when you want to use ISDN as line interface for dialing.
- speech : Select when you want to use Telephone as line interface for dialing.
- sip : Select when you want to use SIP as line interface for dialing.

#### BRI Prefix Select

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

#### LAN Prefix Select

- prifixlan-off : Disables the LAN prefix.
- prifixlan-on : Enables the 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-persontv : 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: Non

Group Number: Not specified

IP Address of a remote party: 192.168.100.10

```
list save new base lan prifixlan-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 prifix-a thumbnail-person  
/1/SONY02/55551111/55552222/55553333/55554444/
```

## **list save {new,1-1000} ip-comm**

Under construction

**list save {new,1-1000} isdn-comm**

Under Construction

**list save {new,1-1000} sip-comm**

Under Construction

## **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

(For next version)

Line I/F for MCU 2

(For next version)

Line I/F for MCU 3

(For next version)

Line I/F for MCU 4

(For next version)

Line I/F for MCU 5

(For next version)

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**

Under Construction

**list load {1-1000} isdn-comm**

Under Construction

**list load {1-1000} sip-comm**

Under Construction

## **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 if registered are displayed.)

## **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

## **dial list {1-1000}**

### **Description**

Dials with the specified list number of 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 number (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 number (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} {1b,2b,3b,4b,5b,6b,8b,12b} {restrict-auto,restrict-56k}
[h261,h263,mpeg4video,h264,novideo] {autofps,15fps,30fps,60fps}
[g711,g728,g722,mpeg4audio] {fecc-on,fecc-off}
{scrnsz-auto,qcif,cif,4cif,wcif,w432p,w4cif,hd720} {h239-on,h239-off}
{h239-rate-1-3,h239-rate-1-2,h239-rate-2-3}
/ADDR_1/ADDR_2/ADDR_3/ADDR_4/ADDR_5/ADDR_6/
TX_LAN_RATE/RX_LAN_RATE/TTL_LAN_RATE/
```

### **Selective Parameter**

#### Line I/F

- lan : Select when you want to use LAN as line interface for dialing.
- bri : Select when you want to use ISDN as line interface for dialing.
- speech : Select when you want to use Telephone as line interface for dialing.
- sip : Select when you want to use SIP as line interface for dialing.

#### Number of Lines

- 1b : Dials with 1B.
- 2b : Dials with 2B.
- 3b : Dials with 3B.
- 4b : Dials with 4B.
- 5b : Dials with 5B.
- 6b : Dials with 6B.
- 8b : Dials with 8B.
- 12b : Dials with 12B.

#### Restrict

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

Video Mode (Multiple selections available)

- h261 : Selects H.261.
- h263 : Selects H.263.
- mpeg4video : Selects MPEG4VIDEO.
- h264 : Selects H.264.
- novideo : Selects none (For SIP. Other video is cancelled.)

Video Frame

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

Audio Mode (Multiple selections available)

- g711 : Selects G.711.
- g728 : Selects G.728.
- g722 : Selects G.722.
- mpeg4audio : Selects MPEG4 AAC.

Far End Camera Control

- fecc-on : Enables the control of each other's cameras.
- fecc-off : Disables the control of each other's 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).

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.

**Typed Parameter**

- ADDR\_1 : Remote party info 1  
ISDN: Enter the line number used when the ISDN port 1 is used for dialing.  
H.323/SIP: Enter the IP address of a remote party.
- ADDR\_2 : Remote party info 2  
ISDN: Enter the line number used when the ISDN port 2 is used for dialing.
- ADDR\_3 : Remote party info 3  
ISDN: Enter the line number used when the ISDN port 3 is used for dialing.
- ADDR\_4 : Remote party info 4  
ISDN: Enter the line number used when the ISDN port 4 is used for dialing.
- ADDR\_5 : Remote party info 5  
ISDN: Enter the line number used when the ISDN port 5 is used for dialing.
- ADDR\_6 : Remote party info 6  
ISDN: Enter the line number used when the ISDN port 6 is used for dialing.
- TX\_LAN\_RATE : Enter the transmission bit rate (in kbps) for LAN connection.
- RX\_LAN\_RATE : Enter the reception bit rate (in kbps) for LAN connection.
- TTL\_LAN\_RATE : Enter the total bit rate (in kbps) for LAN connection.

**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 number (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 number (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 Lines: 6B

Video Mode: H.264

Video Frame: 30fps

Audio Mode: G.722 and MPEG4AUDIO

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 6b h264 30fps g722 mpeg4audio fecc-on 4cif 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: MPEG4AUDIO

Transmission Bit Rate: 2Mbps

Reception Bit Rate: 2Mbps

ADDR\_1: 192.168.10.10

dial lan h264 60fps mepg4audio hd720 /192.168.10.10/2048/2048/
--

## **dial cancel**

### **Description**

Cancels dialing.

### **Syntax**

dial cancel

### **Selective Parameter**

None

### **Typed Parameter**

None

### **Return Value**

None

## **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 number 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.

### **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

## **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 picture displayed on the monitor screen.

### **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-uplight :	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 jacks.
s-video :	Selects the picture from the equipment connected to the S VIDEO IN connector.

### **Typed Parameter**

None

### **Return Value**

video {camera,rgb,ypbpr,s-video}

(The current status returns.)

## **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 jacks.
- 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 OUTconnector (single monitor).
- hdmi-rgb : Outputs the picture to both 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.)

## **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 in percent (%). (0 to23)

### **Typed Parameter**

None

### **Return Value**

audio volume-% (%=0 to23)  
(The current value of the volume returns.)

## **audio(2)**

### **Description**

Turn 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-\*,dtmf-#,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-\*,dtmf-#,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 {start,stop}

(The current status of H.239 returns.)

## **camera**

### **Description**

Controls the near-end camera.

### **Syntax**

camera SUB-CMD

(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**

<b>Sub-command</b>	<b>Typed Parameter</b>	<b>Description</b>	<b>Remarks</b>
<b>Zoom</b>			
zoom-stop		Stop the zoom control	
zoom-tele		tele(standard)	
zoom-wide		wide(standard)	
zoom-tele	/H1/	tele(variable)	H1:TELE speed
zoom-wide	/H1/	wide(variable)	H1:WIDE speed
zoom-setpos	/H1/	zoom position	H1:Velocity
<b>Pan/Tilt</b>			
up		up(standard)	
down		down(standard)	
left		left(standard)	
right		right(standard)	
up	/H1/	up(variable)	H1:TILT speed
down	/H1/	down(variable)	H1:TILT speed
left	/H1/	left(variable)	H1:PAN speed

right	/H1/	right(variable)	H1: PAN speed
upright	/H1/H2/	upright(variable)	H1: PAN speed H2: TILT speed
upleft	/H1/H2/	upleft(variable)	H1: PAN speed H2: TILT speed
downright	/H1/H2/	downright(variable)	H1: PAN speed H2: TILT speed
downleft	/H1/H2/	downleft(variable)	H1: PAN speed H2: TILT speed
pan/tilt-stop		pan/tilt stop	
move-abspos	/H1/H2/H3/H4/	Sets the absolute position	H1: PAN speed H2: TILT speed H3: PAN position H4: TILT position
move-rtvpos	/H1/H2/H3/H4/	Sets the relative position	H1: PAN speed H2: TILT speed H3: PAN position H4: TILT position
pan/tilt-home		home	
pan/tilt-reset		reset	
<b>Aging</b>			
aging-start		Starts aging	
aging-stop		Stops aging	
<b>Preset</b>			
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 pr3set setting	D1: Preset number 1 to 100 (decimal number)

<b>Focus</b>			
focus-stop		Stops the focus control	
focus-far		FAR(standard)	
focus-near		NEAR(standard)	
focus-far	/H1/	FAR(variable)	H1:Focus speed
focus-near	/H1/	NEAR(variable)	H1:Focus speed
focus-auto		Auto focus on/off	
focus-manual		Manual Focus on/off	
focus-setpos	/H1/	Sets the focus position	H1:Focus position
focus-manauto		Auto/Manual	
focus-unlimit		Infinity	
focus-aft		Auto focus trigger	
focus-afsehigh		Increases the sensitivity during auto focus	
focus-afselow		Decreases the sensitivity during auto focus	
<b>Zoom Focus</b>			
zoom-focus	/H1/H2/	Sets the zoom and focus positions	H1: Zoom position H2: Focus position
<b>AF Sensitivity</b>			
af-senomal		Normal	
af-selow		Low	
<b>White Barance</b>			
wb-auto		Normal auto	
wb-indoor		Indoor Mode	
wb-outdoor		Outdoor Mode	
wb-op		One Push WB	
wb-man		Manual control mode	
wb-opt		One Push WB	

		Trigger	
wb-atw		ATW	
<b>White Balance R</b>			
wbr-reset		Reset	
wbr-up		Up	
wbr-down		Down	
wbr-set	/H1/	Sets the R value	H1:R value
<b>White Balance B</b>			
wbb-reset		Reset	
wbb-up		Up	
wbb-down		Down	
wbb-set	/H1/	Sets the B value	H1:B value
<b>Color Gain</b>			
crg-reset		Reset	
crg-up		Up	
crg-down		Down	
crg-set	/H1/	Sets the gain value	H1: Gain value
<b>Color Hue</b>			
crh-reset		Reset	
crh-up		Up	
crh-down		Down	
crh-set	/H1/	Sets the hue value	H1: Hue value
<b>White Balance Sensitivity</b>			
wbs-low		Low	
wbs-middle		Middle	
wbs-high		High	
<b>White Balance Shift</b>			
wbshift-up		Up	
wbshift-down		Down	
wbshift-reset		Reset	
wbshift-set	/H1/	Sets the shift value	H1:Shift value
<b>Exposure Setting</b>			
exp-auto		Auto	
exp-man		Manual	

exp-shpri		Shutter priority	
exp-irispri		Iris priority	
exp-gnpri		Gain priority	
exp-bright		Bright	
exp-spot		Spotlight	
expshutterauto		Shutter auto	
expirisauto		Iris auto	
expgainauto		Gain auto	
<b>Exposure Response Speed</b>			
expaspeed-low		Low	
expaspeed-middle		Middle	
expaspeed-high		High	
<b>Exposure Limit</b>			
expglimit	/H1/	Sets the gain limit value	H1: Gain limit value
expirislimit	/H1/	Sets the iris limit value	H1: Iris limit value
<b>Slow Shutter</b>			
slowshutter_limit	/H1/	Limit	H1:mode
slowshutter_aon		Auto ON	
slowshutter_aoff		Auto OFF	
<b>Shutter Speed</b>			
shutters-reset		Reset	
shutters-up		Up	
shutters-down		Down	
shutters-set	/H1/	Sets the shutter speed value	H1: Shutter speed value
<b>Iris</b>			
iris-reset		Reset	
iris-up		Up	
iris-down		Down	
iris-set	/H1/	Sets the iris value	H1:Iris value
<b>Gain</b>			
gn-reset		Reset	

gn-up		Up	
gn-down		Down	
gn-set	/H1/	Sets the gain value	H1:Gain value
<b>Bright</b>			
bright-reset		Reset	
bright-up		Up	
bright-down		Down	
bright-set	/H1/	Sets the bright value	H1:Bright value
<b>Exposure Compensation</b>			
expc-on		ON	
expc-off		OFF	
expc-reset		Reset	
expc-up		Up	
expc-down		Down	
expc-set	/H1/	Sets the exposure compensation value	H1:Exposure compensation value
<b>Backlight</b>			
backlight-on		ON	
backlight-off		OFF	
<b>Spot AE(Automatic Exposure)</b>			
spotae-on		ON	
spotae-off		OFF	
spotae-set	/H1/	Sets the AE value	H1:AE value
<b>Aperture Control</b>			
aperture-reset		Reset	
aperture-up		Up	
aperture-down		Down	
aperture-set	/H1/	Sets the aperture gain value	H1:Aperturegain value
<b>Spotlight Compensation</b>			
spotlight-on		ON	
spotlight-off		OFF	

<b>Reduction of Flicker</b>			
rflicker-on		ON	
rflicker-off		OFF	
<b>Gamma</b>			
gamma-nomal		Normal	
gamma-cinema		Cinema	
<b>Video Effect</b>			
videoeffect-none		None	
videoeffect-mon o		B/W	
videoeffect-neg		Inversion	
videoeffect-past el		Pastel	
videoeffect-sepia		Sepia	
videoeffect-sol		Solarize	
videoeffect-mos aic		Mosaic	
videoeffect-slim		Slim	
videoeffect-stret ch		Stretch	
<b>Wide</b>			
wide-off		OFF	
wide-cinema		Cinema	
wide-full		16:9	
<b>Skintone</b>			
sktonedet-on		ON	
sktonedet-off		OFF	
sktonedet-t1		TYPE1	
sktonedet-t2		TYPE2	
sktonedet-t3		TYPE3	
<b>PANTILT Reduction Mode</b>			
pantiltcrv-mode1		Mode1	
pantiltcrv-mode2		Mode2	
pantiltcrv-mode3		Mode3	
<b>DSUB 15pin Output</b>			

dsubout-rgb		Output1 RGB	
dsubout-ybpr		Output1 YPbPr	
dsubout-rgbsync off		RGB SYNC OFF	
dsubout-rgbsync rgb		RGB SYNC RGB	
<b>DSUB 15pin SYNC</b>			
dsubsync-3state		3-STATE	
dsubsync-vd		VD	
<b>SYNC</b>			
syncin-standard		Standard	
syncin-hd1		Hd1	
syncin-sd1		Sd1	
<b>Camera Flip</b>			
camflip-on		ON	
camflip-off		OFF	
<b>PAN Operation Flip</b>			
panflip-on		ON	
panflip-off		OFF	
<b>TILT Operation Flip</b>			
tiltflip-on		ON	
tiltflip-off		OFF	
<b>Remote Controller</b>			
rem-on		ON	
rem-off		OFF	
rem-onoff		ON/OFF	
<b>Color Bars</b>			
colorbar-on		ON	
colorbar-off		OFF	
<b>Camera Setting Reset</b>			
reset-config		Resets the setting	

### 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
error	: other

## far camera

### Description

Controls the far-end camera.

### Syntax

far camera SUB-CMD

(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
<b>Zoom</b>			
zoom-stop		Stop the zoom control	
zoom-tele		tele(standard)	
zoom-wide		wide(standard)	
<b>Pan/Tilt</b>			
up		up(standard)	
down		down(standard)	
left		left(standard)	
right		right(standard)	
pan/tilt-stop		pan/tilt stop	
<b>Preset</b>			
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)
<b>Focus</b>			
focus-stop		Stops the focus control	
focus-far		FAR(standard)	
focus-near		NEAR(standard)	

**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 version (none,h239)

option I/F (none,isdn(b768),isdn(b384),tablet)

host name

IP address (xxx.xxx.xxx.xxx)

MAC address1 (xx-xx-xx-xx-xx-xx)

MAC address 2 (xx-xx-xx-xx-xx-xx)

serial number

## **status communication**

### **Description**

Obtains the communication status.

### **Syntax**

status communication

### **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
FRate-Tx	Transmission frame rate	Numeric value
FRate-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,mpeg4audio
AUDio-Rx	Audio mode for	g711,g728,g722,mpeg4audio

	reception	
VIDeo-Tx	Video mode for transmission	h261,h263,mpeg4video,h264
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
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	on,off
H239	H.239	on,off
ARQ	ARQ	on,off
ARC	ARC	on,off
FEC	FEC	on,off
ANNOtation	Annotation	on,off
LIP sync	Lip sync mode	off,advance,simple
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 configure)

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 (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)

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)

## **status packet p-p**

### **Description**

Obtains the IP communication packet status.

### **Syntax**

status paket

### **Selective Parameter**

None

### **Typed Parameter**

None

### **Return Value**

status paket

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 transmission 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 number	See APPENDIX-A
SL01 to SL05	LAN line status number	See APPENDIX-A
CB01 to CB12	BRI port cause number	See APPENDIX-A
CL01 to CL05	LAN port cause number	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	発着信種別	incom-no-connected,income-connected, dialout-gui,dialout-ext,dialout-web

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	Note used(always 0)
/UserName/	User	characters

## **remcom**

### **Description**

Remote Commander Emulation

### **Syntax**

remcom {0-255\*} (remcon is also available.)

\*Values which are listed below are only used

### **Selective Parameter**

None

### **Typed Parameter**

None

### **Return Value**

None

### **Remote Commander Code Table-**

0	<i>/* 1 */</i>
1	<i>/* 2,A,B,C */</i>
2	<i>/* 3,D,E,F */</i>
3	<i>/* 4,G,H,I */</i>
4	<i>/* 5,J,K,L */</i>
5	<i>/* 6,M,N,O */</i>
6	<i>/* 7,P,Q,R,S */</i>
7	<i>/* 8,T,U,V */</i>
8	<i>/* 9,W,X,Y,Z */</i>
9	<i>/* 0 */</i>
10	<i>/* *, ← */</i>
11	<i>/* #, → */</i>
16	<i>/* MIC ON/OFF */</i>
18	<i>/* VOL + */</i>
19	<i>/* VOL - */</i>
21	<i>/* POWER ON/OFF */</i>
30	<i>/* ZOOM T */</i>

31       /\* ZOOM W \*/  
38       /\* PinP \*/  
43       /\* FAR -> FAR/NEAR \*/  
58       /\* MENU \*/  
65       /\* INPUT SELECT VIDEO -> VIDEO INPUT SELECT \*/  
98       /\* PHONE BOOK \*/  
99       /\* CONNECT/DISCONNECT \*/  
100      /\* DISPLAY ON/OFF \*/  
101      /\* INFO -> HELP \*/  
102      /\* RETURN \*/  
110      /\* CURSOR PUSH \*/  
111      /\* POINTING \*1 N \*/  
115      /\* POINTING \*5 E \*/  
119      /\* POINTING \*9 S \*/  
123      /\* POINTING \*13 W \*/  
  
144      /\* CMD\_CAMOFF -> STOP KEY (30,31,111,115,119,123 の後) \*/  
  
192      /\* Hold-down Code CMD\_NUM1\_LONG \*/  
193      /\* Hold-down Code CMD\_NUM2\_LONG \*/  
194      /\* Hold-down Code CMD\_NUM3\_LONG \*/  
195      /\* Hold-down Code CMD\_NUM4\_LONG \*/  
196      /\* Hold-down Code CMD\_NUM5\_LONG \*/  
197      /\* Hold-down Code CMD\_NUM6\_LONG \*/  
229      /\* Hold-down Code CMD\_HELP\_LONG \*/  
230      /\* Hold-down Code CMD\_WEST\_LONG \*/  
231      /\* Hold-down Code CMD\_MENU\_LONG \*/

## APPENDIX-A Status number

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**

Code	Description
0	Unknown network error
1	Number does not exist
2,3,6	Network congestion
16	Normal disconnection
17	Line is busy
18	System not responding
19	System not responding
21	Call rejected
22	Called party number changed
26	Connection restoration request
27	Remote system out of order
28	Invalid number entered
31,34,41,42,43,44,47	Network not available
50	Not a Subscriber
57,58	Bearer capability not authorized
70	Restricted capability
88	Terminal attribute error
91,95-102,111	Protocol error
128	H.221 negotiation timeout
131	Board mismatch
132	Invalid SPID
134	Physical link synchronization error
144	The remote terminal may not be compatible with the BONDING function
145	The remote terminal may not be compatible with the BONDING function
177	LAN connection timeout
178	LAN connection rejected
179	DNS error
180	Dialing your own number is invalid
181	Gatekeeper error

## APPENDIX-B 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,

*/\* Jamaica \*/*

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,






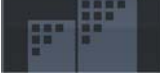
US/Mountain,

US/Pacific,

US/Pacific/New,

US/Samoa,

### APPENDIX-D Thumbnail List for Phone Book

Thumbnail A	thumbnail-person	
Thumbnail B	thumbnail-persontv	
Thumbnail C	thumbnail-personpc	
Thumbnail D	thumbnail-persondesk	
Thumbnail E	thumbnail-room	
Thumbnail F	thumbnail-buildings	

## **APPENDIX-E Country/Region List**

Under Construction