

## Release Notes for PCS-XG80 – V2.04 Software

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These release notes provide essential information for the latest software version available for the Sony PCS-XG80 that can be found at [ftp.sony-europe.com/](http://ftp.sony-europe.com/)

New software is made available to maintain and enhance the product(s) and their lifetime within our portfolio, it is always recommended to utilise the most recent version of software available for any product to ensure full performance and reliability is maintained at all times.





## Videoconferencing

### PCS-XG80 Version 2.04 - New Features

#### **New external control commands to start and stop recording and streaming**

Commands to start and stop recording and streaming are added as external control commands.

Recording	Start	<i>record start</i>
	Stop	<i>record stop</i>
Streaming	Start	<i>stream start</i>
	Stop	<i>stream stop</i>

#### **New service command to automatically switch video inputs upon reception of an incoming call, the ideal situation will be for applications with PCSA-CXTL80 camera when terminal is positioned as a "Personal" system**

The video input to switch upon reception of an incoming call and the video input to switch upon disconnection can be specified.

Command: INCAMERA=[A][B]

[A]: Specify here the video input to switch automatically upon reception of an incoming call.

C = Switch to Main camera

S = Switch to S-VIDEO input

R = Switch to RGB input

Y = Switch to YPbPr input

[B]: Specify here the video input to switch automatically upon call disconnection.

C = Switch to Main camera

S = Switch to S-VIDEO input

R = Switch to RGB input

Y = Switch to YPbPr input

K = Do not switch input

*Note: If nothing is specified at [B], the video input returns to the original input source before connection.*

#### **New Service Command: RGBREDUCE**

Using this command allows you to shrink the picture from the equipment connected to the RGB IN connector so that a full screen local RGB image can be displayed on the HDMI monitor when "Monitor Output" is set to HDMI and the terminal is switched on.



## Videoconferencing

### **PCS-XG80 Version 2.04 - Improved Functions**

#### **Improvement of the BrightFace and noise reduction functions**

Noises have been reduced to produce clearer image.

#### **Improved condition for the Voice Activate 720p mode in the H.323 MCU connection**

With Ver.2.03, the Voice Activate 720p mode was available for both transmission and reception when the communication rate between an MCU and a terminal was 1146 Kbps or higher. With Ver. 2.04, the Voice Activate 720p mode is now available from 1 Mbps or higher.

#### **Improvement in sending/receiving presentation data in a multi-point connection**

In a multi-point connection, after a remote party was disconnected (or an additional remote party was connected) while an MCU terminal was sending presentation data, the MCU terminal needed to resend presentation data. This operation has been improved in Ver.2.04.

Note that the following restrictions remain:

#1 In a point-to-point connection, after an additional remote party is connected and it results in a multi-point connection while any terminal (either MCU or sub-terminal) is sending/receiving presentation data, disconnect all the sessions once and then reconnect sessions to be able to send/receive presentation data again.

#2 In a multipoint connection, after an additional remote party (sub-terminal) is connected while any sub-terminal is sending presentation data, stop sending data and then restart. And all the terminals can receive presentation data without fail.

#### **New on screen message display when remote commander operation is prohibited**

After a call is disconnected the PCS-XG80 needs to refresh, during this short time the remote commander buttons may be pressed but no action is performed by the PCS-XG80, now a new on screen message "Please wait" is displayed during the few seconds when the operation is prohibited

#### **Improve use of simple standby mode**

When using the service command VIDEOOFF (simple standby), activation of the standby timer was not possible but it looked as if it were possible. It has been amended so that the standby timer cannot be set while this service command is enabled.

#### **Improved RTP/RTCP port range settings**

With Ver. 2.03, only the port ranges between 49152 and 65535 could be set. However, older models and other companies could use lower ports outside of this range. Now any port range can be set.

#### **Reduction of noise occurrence when terminals other than PCS-XG80 are connected**

It was found that in the connections between PCS-XG80 and other terminals, if the room where PCS-XG80 was installed was dark, there was a problem in infrequent cases that a noise occurred in the image displayed on the remote terminal and it gradually spread. The problem occurrence can be reduced by entering a new service command IFRAMExx. This service command enables i-Frames to be sent periodically from PCS-XG80. The interval of the i-Frame transmission can be specified in xx (in seconds) by entering numeric values. The transmission interval that can be specified is between 20 seconds and 240 seconds. However, using this command may adversely affect the smoothness of the video motion or other performances depending on the video transmission rate. Before using this command, make sure to check the operation in an actual environment.



## Videoconferencing

### **PCS-XG80 Version 2.04 - Restrictions and Limitations**

#### **Recommended settings for networks with significant packet loss**

Depending on the network configuration, constantly-found packet loss of 2% or more, or one-way latency of 50 ms or more may cause sent video to freeze. If this occurs, set ARC to "OFF", ARQ to "ON" and FEC to "ON" under "QoS1" on the setting screen.

#### **ISDN Connection**

Presentation cannot be started for 50 seconds after connecting or disconnecting ISDN. This restriction does not occur during LAN connection.

(Restricted from Ver. 2.01.)

#### **Multipoint Connection Including Current Model**

When PCS-1, PCS-G70, PCS-G50, or PCS-TL50 are included as sub-terminals for an ISDN multipoint connection with PCS-XG80 as the host terminal, set the audio format for all the terminals to G.722, select All as the video format for PCS-XG80, and select Auto as the video format for PCS-1, PCS-G70, PCS-G50, or PCS-TL50.

(Restricted from Ver. 2.00.)

#### **Terminal name display over multipoint connections**

Some terminals on networks with both IP and ISDN connections will display the wrong terminal names for some terminals. Additionally, acquisition of terminal name information may fail due to timing issues.

(Problem from Ver.2.00)

An improvement has been made in Ver. 2.04 so that this problem occurs under the following limited condition.

When another terminal is newly connected over IP while an ISDN point-to-point connection is conducted and IP/ISDN mixed multi-point conference is conducted, the terminal name of the MCU terminal and those of sub-terminals connected over IP cannot be displayed correctly.

(Problem from Ver. 2.00)

#### **Order of disconnection in a cascade connection**

When a cascade connection is made in the order mentioned below, and you disconnect between terminals A and B first during the cascade connection, there are some cases where the other connections cannot be disconnected correctly.

Connection order:

1. Set the multipoint mode" to "Auto" for terminals A and B, and connect them for a point-to-point connection.

2. Connect an additional terminal to the terminal A to establish a multipoint connection.

3. Connect another additional terminal to the terminal B to establish a cascade connection.

(Problem from Ver. 2.00)



## Videoconferencing

### **PCS-XG80 Version 2.04 - Fixes and Resolved issues**

#### **Connection to an HDMI monitor**

When using an HDMI monitor with PCS-XG80, if the power to the HDMI was turned on immediately (about 4 seconds) after the power to PCS-XG80 was turned on, either video or audio, or both of them might not be output correctly in some cases.

(Problem from Ver. 1.00) [Corrected in Ver. 2.04]

#### **Mixed frame rates**

The video feed lost its smoothness when the sending frame rate was 60 fps and the receiving frame rate was 30 fps. This occurred if, for example, a terminal with "Video frame (for transmission)" set to "Auto", "Video Frame" (for reception) set to 30 fps and "Individual setting for transmission/reception" set to "ON" was connected to a terminal with "Video frame" set to "Auto" and "Individual setting for transmission/reception" set to "OFF". To avoid this, you were required to make configurations so as for the frame rates to be equal between the sender and receiver. (This is not a problem when 30 fps devices are mixed with 15 fps devices)

(Problem from Ver. 2.00) [Corrected in Ver. 2.04]

#### **Conference recording function**

When recording a visual communication of split screen, using the MCU terminal, the video bit rate (to be set under "Video" in Administrator 5 (Streaming/Recording) page of the Administrator Setup menu) was limited to 128kbps or less.

(Problem from Ver. 2.03) [Corrected in Ver. 2.04]

#### **Adjustment of the transmission bit rate of the video data with terminals other than PCS-XG80**

In the connection to terminals other than PCS-XG80 (except for the connection only with the PCS-XG80 units), it sometimes happened that the transmission bit rate of the video from PCS-XG80 became about 5% higher than the specified value. An adjustment has been made to make the transmission bit rate to be equal to the specified value.

[Corrected in Ver. 2.04]

#### **Multipoint Connection with Mixed LAN and ISDN**

When connecting multiple points with mixed LAN and ISDN connection, you were required to perform the LAN connection first, and then the ISDN connection.

[Corrected in Ver. 2.04]

#### **Zoom(RGB) function**

When the video is in a 4:3 aspect ratio, using the Zoom(RGB) after sending a presentation caused the unit sending the presentation to move the position of the video to the right. To avoid this, you were sometimes required to repeat the operation.

(Problem from Ver. 2.03) [Corrected in Ver. 2.04]

#### **Terminal name display when the current unit is an MCU on a multipoint connection**

In the multipoint conference with a PCS-G70 as MCU, the terminal name may not be displayed on PCS-XG80 remote terminals. (Likewise for the PCS-G50)

(Problem from Ver. 2.00) [Corrected in Ver. 2.04]



## Videoconferencing

### **Correction when the "Screen size" was set to 720**

When screen size was configured at 720 and the communication bit rate was 256 Kbps or more but less than 512 Kbps, the video mode status for encoding read 720, which was different from the actual value (the actual value was WCIF).  
(Problem from Ver. 2.00) [Corrected in Ver. 2.04]

### **MCU Voice calls with ISDN**

While two or more voice calls were connected, when establishing a connection with an incoming call from a telephone that was making an anonymous call, the connection with the second and subsequent telephones could not be established correctly.  
(Problem from Ver. 2.00) [Corrected in Ver. 2.04]

### **Web Interface setting for Multicast/Unicast**

When trying to set up addresses for unicast streaming the unicast IP address could not be set via the Web I/F.  
(Problem from Ver. 2.03) [Corrected in Ver. 2.04]

### **Multipoint connections with current models**

If sub-terminals include a PCS-G70 of the older version, the H.239 function of the PCS-G70 may not operate at the first IP connection after the power turns on. Reconnect the PCS-G70. (Likewise for the PCS-G50) (Problem from Ver.2.00)  
This problem has been corrected with PCS-G70 Ver2.65 & PCS-G50 Ver2.70.



## Videoconferencing

### Software Revision History

Version	Date	Major features
Ver1.01	28-07-2008	<ul style="list-style-type: none"><li>• First ex-factory version</li></ul>
Ver1.02	01-08-2008	<ul style="list-style-type: none"><li>• Anti-noise functions for display when receiving presentations</li></ul>
Ver1.03	27-08-2008	<b>New Functions</b> <ul style="list-style-type: none"><li>• Added Welsh language function service command</li></ul> <b>Updated restrictions &amp; limitations</b> – See list <b>Updated fixed problems</b> – See list
Ver1.04	09-09-2008	<ul style="list-style-type: none"><li>• DIAG revision for improvement of manufacturing process</li></ul>
Ver2.0	28-10-2008	<b>New Functions</b> <ul style="list-style-type: none"><li>• Embedded MCU (IP&amp;ISDN), Dual network interface, H.460 firewall traversal, IPv6, WEB monitor, SNMP, Shared Phonebook, Camera Fade-in, Network Routing Check</li></ul> <b>Updates Features lists</b> – See list <b>Updated restrictions and Limitations</b> – See list
Ver2.01	04-12-2008	<b>Main Corrected Problems</b> <ul style="list-style-type: none"><li>• Error in presentation data transmission, remote camera control, and the point name display function with LAN cascade connection</li><li>• Error in presentation data transmission, remote camera control, and point name display function with multipoint connection using both LAN and ISDN terminals</li></ul> <b>Improved Main Functions/Operability</b> <ul style="list-style-type: none"><li>• Restrictions such as connection order when connecting or disconnecting with LAN cascade</li><li>• Restrictions so that remote operations cannot start the annotation function in situations where it cannot be used</li><li>• Restrictions on remote camera control and video input selection on the remote terminal during multipoint connection in split screen mode</li></ul>
Ver2.02	13-02-2009	<b>Bug Fix</b> <ul style="list-style-type: none"><li>• Error when sub terminal of MCU with camera/function and control</li></ul>
Ver2.03	09-04-2009	<b>New Functions</b> <ul style="list-style-type: none"><li>• 720p audio detection broadcast to multipoint connections</li><li>• Czech and Hungarian language compatibility</li><li>• 720p compatibility over ISDN</li><li>• MPEG-4 AAC-LD compatibility</li><li>• Commander Function Key assignments</li><li>• WXGA input compatibility</li><li>• Adjustable menu transparency</li><li>• URL dialing compatibility</li><li>• New functions related to Web I/F</li></ul> <b>Improved Main Functions/Operability</b> <ul style="list-style-type: none"><li>• The screen layout can be changed</li><li>• warning messages have been added and settings can now be controlled from remote</li><li>• Frame rate returns 60fps succession from H239 start/stop</li></ul>
Ver2.04	31-08-2009	<b>New Functions</b> <ul style="list-style-type: none"><li>• API for start/stop recording</li><li>• Service commands for auto switching inputs on call connect/disconnect</li><li>• Service command for shrinking RGB source with HDMI monitor</li></ul> <b>Improved Main Functions/Operability</b> <ul style="list-style-type: none"><li>• New GUI warning for remote commander when no operation is possible</li><li>• BrightFace improvements</li><li>• VA 720 MCU mode now from 1Mbps</li><li>• Recording MCU call bit rate restriction removed</li><li>• RTP/RTCP port restriction removed</li></ul> <b>Fixed problems</b> <ul style="list-style-type: none"><li>• Updated listings for fixed problems</li></ul>