

## Release Notes for PCS-G50 - V2.70 Software

### **IMPORTANT NOTE**

Release version 2.70 has been issued at this time for PCS-G50 only.

The main features of version 2.70 are to include additional language support for special recent projects within PSE regions

Current version 2.70 firmware release for G50:

The revision of the user manual is not completed to include these changes, also the software install package (Memory Stick and Ftp) posted at this time do not include the user manual pdf data. These are planned to be revised during January 2009.

Once available we shall revise the software install package(s) that will include the revised manuals. The only change to the user manual is that the three new languages are added to General Setup -> Device Setup -> Language on GUI.

### **Contents**

- **New Features**
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These release notes provide essential information for the latest software version available for the Sony PCS-G50 that can be found at <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-G50 - New Features**

#### **Additional language support**

Three new languages (Welsh, Turkish, and Norwegian) are newly supported on GUI of PCS-G50

### **PCS-G50 - Restrictions & Limitations**

#### **After inserting a 128 Mb Memory Stick, it takes approximately 10 seconds to be recognized by PCS and become ready for use (PCS-G70/G50)**

Some Memory Sticks were not recognized properly, so recognition improvements were made in Ver. 2.50. As a result, recognizing a 128 Mb Memory Stick takes approximately 10 seconds. Writing and reading data can be performed properly.

#### **The function of UPnP (PCS-G70/G50).**

The router (NTT-West Web Caster 710) has been verified as compatible with the PCS-G70/G50 Ver2.2x software. But this router doesn't work on the Ver3.30. NAT setting is changed "Auto (UPnP)" to "On" when using this router on Ver2.3X.

(Problem since Ver2.30)

#### **A broadcaster icon is displayed during the connection between two units (PCS-G70/G50).**

Even when the terminal is connected to more than three points, and then one or more terminals exit the conference and the connection is reduced to two points, PCS is still internally functioning in the multi-point mode. For this reason, one of the two terminals becomes the broadcaster, and the broadcaster icon is displayed.

(Problem since Ver1.01)

#### **A still image is received about 0.5 seconds later in some cases (PCS-G70/G50).**

During Cascade connection, when a child terminal sends a still image, the child terminal of the remote party receives that image with a delay of about 0.5 seconds (about 1%).

(Problem since Ver2.00)

#### **During a multipoint conference with IP connection, still images cannot always be sent correctly when the screen is set to split screen mode. (PCS-G70/G50)**

When still images are sent in IP communication, switch to self broadcasting momentarily before sending the still images.

(Problem from Ver 2.50)



## Videoconferencing

### **PCS-G50 Version 2.70 – Fixes & Resolved Issues**

#### **Issue sometimes with H.239 when G50 is remote terminal to PCS-XG80 who is MCU host**

When PCS-G50 is connected as a remote terminal over IP in multipoint connection with PCS-XG80 who is the main terminal, H.239 capability of PCS-G50 is infrequently disabled and H.239 transmission cannot be performed normally. This is because the PCS-G50 misjudged that the remote site shows H.239 capability is Off. This problem occurred depending on timing of receiving capability notification when both capabilities are exchanged.

This problem has been corrected.

(Problem from Ver 2.0) [Corrected in Ver 2.70]

### **PCS-G50 Version 2.63 – Fixes & Resolved Issues**

**In multi-point connections, when a terminal was fixed to the large area of a six-way split screen, the name was not displayed correctly on sub terminals when terminals left or entered the conference.**

When using six-way split screen setting with a fixed terminal displayed in the largest area during a multi-point conference, whenever a terminal left or entered the conference and the terminal name display or information changed, that information was not always sent correctly from the MCU to all of the sub terminals. This problem has been corrected by ensuring that changes to the terminal name display and information is properly sent.

(Problem from Ver 1.0) [Corrected in Ver 2.63]

**During SIP connection, there were cases where the model for the remote terminal could not be identified correctly. Even when connected to non-functioning terminals, holding, transferring, and presentation sending would be performed.**

**The remote terminal camera controls could not be performed even on terminals where the function was activated.**

This problem has been corrected so that the model of the remote terminal can be identified correctly even if the remote terminal is a model other than PCS-G70/G50/PCS-1/PCS-TL33/30/PCS-TL50.

(Problem from Ver 2.0) [Corrected in Ver 2.63]

**When the video mode was MPEG4 in SIP connection, the first connection after restarting the PCS unit was displayed as a black screen.**

The screen was displayed as black for the first connection performed from a PCS after restarting (including turning the power on from standby mode) with SIP connection and MPEG4 set as the video mode. In this situation, the video mode could not be set properly. This problem has been corrected.

(Problem from Ver 2.0) [Corrected in Ver 2.63]

**When an ISDN non-bonding connection formed between the remote terminal and MCU, the video data rate became lower.**

When a remote terminal in an ISDN multi-point connection enters a conference in a non-bonding connection, the video data rate sometimes became less. This problem occurred because there was an error in the internal data rate calculation depending on the timing used for the connection. This problem has been corrected so that the data rate can be calculated correctly without relying on the timing.

(Problem from Ver 2.5) [Corrected in Ver 2.63]



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### **Continuous Still image transfer issue with H264 codec**

During video mode H.264, there was a problem where continuous still images could not be received. This problem has been corrected  
(Problem from Ver 2.62) [Corrected in Ver 2.63]

## **PCS-G50 Version 2.61 – Fixes & Resolved Issues**

### **When PCS was in an external control mode, camera's panning and tilting speed stayed slow regardless of the zoom position.**

Normally, camera's panning and tilting begin to move at a slow speed and then move faster. The problem is as follows; When the PCS is in an external control mode, the panning and tilting speed stays slow. This may happen regardless of the zoom position with probability of about 50%. It restores once exits from the external control mode.  
(Problem from Ver 2.6) [Corrected in Ver 2.61]

### **If QoS setting is in Hybrid mode or if FEC, ARQ, and ARC are all set to On, when a PC image is sent/received using the presentation function, some presentation data packets cannot be restored by the ARQ function (PCS-G70/G50)**

When the QoS setting is in Hybrid mode, or when Hybrid is set to Off but FEC, ARQ and ARC are all set to On, the ARQ function that restores packets lost on the network by resending the packets does not working properly and thus some packets are not restored. A PC image sent by the presentation function may not be received or updated on a remote terminal depending on the network environment. To avoid this, set Hybrid to Off, FEC to Off, ARQ to On, and ARC to On.  
(Problem from Ver 1.0) [Corrected in Ver 2.60]

### **PCS cannot be accessed correctly with Microsoft .NET Ver. 3 is installed on the computer.**

If the header file in HTTP exceeds 256 bytes, the PCS Web server could not respond correctly. This problem has been corrected.  
(Problem from Ver 1.0) [Corrected in Ver 2.60]

### **When the video mode is H.263 4CIF, there was a error in the video capture processing.**

When the video mode was H.263 4CIF and the TV signal method was NTSC, the colour data for the first two lines were incorrect values and the image appeared green when capturing the video signal. This problem has been corrected by revising the capture method and the parameters.  
(Problem from Ver 1.00) [Corrected in Ver 2.60]

### **When LAN cable was not connected, an error message appeared continuously.**

When the LAN cable was not connected to the PCS unit, an error message sometimes stayed displayed on the launcher screen. This problem has been corrected.  
(Problem from Ver 2.50) [Corrected in Ver 2.60]

### **The explanation for cascade in the instruction manual (for all languages other than Japanese) was incorrect.**

There was an error in the instruction manual in all languages other than Japanese. This problem has been corrected.

(Incorrect)      The remote parties must be using the PCS-1/1P, PCS-G50/G50P, PCS-G70/G70P, or PCS-TL50 Video Communication System.

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(Correct) The host terminal on the remote side must be a PCS-1/1P, PCS-G50/G50P, PCS-G70/G70P, or PCS-TL50 as their main terminal.  
(Problem from Ver 1.0) [Corrected in Ver 2.60]

**When sending presentation data using DSB, the lip sync between the camera image and audio sometimes became 1 or 2 seconds misaligned.**

When presentation data, with its heavy movements, is used as the input image, the lip sync sometimes became 1 or 2 seconds misaligned. This problem has been corrected.  
(Problem from Ver 2.40) [Corrected in Ver 2.60]

**When the video mode is H.264 Interlaced SIF and IP communication is used, packet loss on the network caused terminal hang-ups**

When LAN communication is conducted in the H.264 interlaced SIF video mode, PCS itself may hang as packet loss occurs. In this case, you have no other option to turn off the unit.  
(Problem from Ver 1.0) [Corrected in Ver 2.60]

**When connecting with an audio telephone after IP communication, the connection may become silent or noise may occur.**

When connected with an audio telephone, there was an error in the initialization process for audio mode, so this problem only occurred after IP connection.

This problem occurred under the following conditions:

1. Turn on power to the PCS.
2. Call with the audio telephone.
3. Disconnect.
4. Start IP communication.
5. Disconnect.
6. Call with the audio telephone. ← Problem occurs

After ISDN communication, calls can be made correctly with the audio telephone.  
(Problem from Ver 1.0) [Corrected in Ver 2.60]

**When an audio telephone connection is used in an ISDN multipoint conference, the video mode is changed to H.261.**

Audio telephone is detected as H.261 in receivable video mode, so the video mode used for the conference is changed to H.261.  
(Problem from Ver 2.50) [Corrected in Ver 2.60]

**In Thai menu, some vowel positions were improper. (PCS-G70/G50)**

(Problem from Ver 2.3) [Corrected in Ver 2.60]

**In Arabic menu, some information which should be displayed from the left to right were inversed.**

Version number was found under machine information  
Index name, IP address, telephone number were found under phone book.  
(Problem from Ver 2.3) [Corrected in Ver 2.60]



## Videoconferencing

### Software Revision History

Version	Date	Major features
Ver 1.01	Oct 19, 2004	First Release
Ver 1.02	Nov 1, 2004	<b>Fixed Bugs</b> <ul style="list-style-type: none"><li>• When video mode is set to Auto in Communication Setup Menu, other video settings are not active</li><li>• Audio/video problem can occur in cascade H.320 of conventional point-to-point conferencing</li><li>• There can be a case that the input selection at the far-end terminal does not work</li><li>• Connection problem when PCS-1/1P or PCS-TL50 becomes MCU and PCS-G70/G70P is connected</li><li>• In the network environment with around 5% packet loss ratio, the reboot of the system can happen</li><li>• Lip synchronization function does not work properly when the bit rate is more than 3Mbps</li><li>• There is a case that Dual Video does not work properly when the bit rate is high in LAN or ISDN connection.</li></ul>
Ver 1.20	Feb 1, 2005	<b>New Features</b> <ul style="list-style-type: none"><li>• Tracking camera (PCSA-CTG70) supported</li><li>• Echo cancelling microphone (PCSA-A7P4) supported</li><li>• IPELA design supported</li></ul> <b>Fixed Bugs</b> <ul style="list-style-type: none"><li>• In a multipoint conference, when you send a still image from an MCU and then cancel it, it is necessary to set the Broadcast mode over again.</li><li>• During a single monitor setup, whiteboard data cannot be saved to a Memory Stick.</li><li>• If DSB data is received while the menu is being displayed, subsequent screen operations cannot be carried out properly.</li><li>• In a multipoint conference, if you switch from the V.A mode to the Split mode, the screen blacks out for a moment at regular intervals.</li><li>• When a prefix is set to multipoint simultaneous transmission, the prefix is not added to the second point and later.</li><li>• In a six-point conference including the MCU, frame skip problems occur in the video output of the five monitors.</li><li>• The function to start Dual Video immediately after a conference begins cannot be used.</li><li>• In multipoint conference connection, the icon that indicates the Voice Active mode is not displayed properly.</li><li>• There was a case that the PCS system did not start up normally in the former version.</li></ul>
Ver02.00	Apr 28, 2005	<b>New Functions</b> <ul style="list-style-type: none"><li>• Streaming is supported.(PCS-G70)</li><li>• Recording using Memory Stick is supported.</li><li>• SIP is supported.</li></ul> <b>Improved Functions</b> <ul style="list-style-type: none"><li>• Performance of the H.263 4CIF is improved</li><li>• The Dual Video is supported in the multipoint video conference configuration(PCS-G70)</li><li>• Multiple languages (all of the languages that are supported by the PCS-1 Ver3.0 are also supported)</li><li>• The optimal main video codec mode is automatically selected when sending the Dual Video/DSB.</li><li>• UI (User Interface) is improved in the same manner as the PCS-1 Ver3.0</li><li>• The QoS dynamic data rate control (ARC) function applies to the DSB/Dual Video data.</li><li>• The H.239 status information (PRESET'N (Presentation function) and the DUAL (Dual Video function)) are added to the communication status.</li><li>• Size of the characters indicating the geographic names on the 5-monitor Out are enlarged.</li><li>• The number of input sources (AUX2 and sub camera) for input video selection is increased to be sent to the far-end party.</li><li>• Saving/reading of the setup data is enabled from the Administrator menu.</li><li>• SNMP is expanded (Equivalent to the PCS-1Ver3.0)</li><li>• Transition of screens when receiving the presentation data is changed.</li><li>• When changing the background image, a background image can be selected from the 4 patterns.</li><li>• Graphic design of icons indicating history of outgoings and incomings is changed.</li></ul>

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		<ul style="list-style-type: none"> <li>• When only a single child terminal is used in the multipoint video conference, the full screen display will be displayed even when the Split screen setup is selected.</li> <li>• Only when the PRI is used in the ISDN connection, On/Off setup of the CRC4 is enabled.</li> <li>• The setups regarding sending are fixed to the specific value on the screen of sending the Web I/F that is different from the setups of the main unit. These setups regarding sending on the screen of sending the Web I/F are changed so that they are matched with the UI setup of the PCS (such as LINE I/F, number of lines, etc.)</li> </ul> <p><b>Fixed Bugs</b></p> <ul style="list-style-type: none"> <li>• When a child terminal receives an incoming call from other terminal in the cascaded connection (or when a child terminal performs a send operation to other terminal), the connection between the terminal that has performed outgoing/incoming call and the MCU machine is disconnected.</li> <li>• Unless the connection is established under the IP environment, the send operation from the incoming history using the ISDN connection cannot be made normally.</li> <li>• In the multipoint video conference, the screen switching could not be implemented normally such as the case that the video signal of the remote party was not displayed normally on the child screen of PinP when the screen switching operation such as switching between Split screen and Broadcaster screen was made after the switching between the remote party screen and the local screen had been made earlier using the screen switching function from the MCU machine.</li> <li>• When length of the data regarding the charge information (AOC) is too long under the ISDN connection environment, the normal processing cannot be executed and the connection cannot be established.</li> <li>• There was a case in France that the ISDN (PRI) connection cannot be established.</li> <li>• The “blur” phenomenon appears partly on the screen during the DSB send/receive process under the ISDN connection environment.</li> <li>• When the Japanese kanji character “輸” is entered as a name in the Address Book, the PCS shows another Japanese kanji character “譽”.</li> <li>• There was a case in the PPPoE setup of the Web control that the set password was displayed as it is on the screen.</li> <li>• The presentation data cannot be received normally when using H.239 from the Polycom under the environment that the Polycom VSX is connected using the ISDN.</li> <li>• The abnormal characters such as &lt;1&gt; and &lt;3&gt; are displayed in the message that appears when a new terminal has joined the video conference under the environment of multipoint video conference.</li> <li>• When the RAS message has not reached to GateKeeper due to network trouble, the subsequent connections cannot be established normally.</li> <li>• There was a case in the MCU machine under the environment of multipoint video conference that the child screen was not displayed normally.</li> <li>• The video signal of the AUX1 and AUX2 becomes all black during Power On.</li> <li>• When a Memory Stick that is not formatted yet by the PCS is inserted and removed, the removed status can no longer be sensed.</li> <li>• The input selection of the sub systems (such as sub camera, AUX2 and IR2) of the local and remote party cannot be executed during receiving the Dual Video signal.</li> <li>• When the screens of Far/Near are switched to show the local screen, and then the operations such as specifying the Broadcaster or switching of the Broadcast modes are executed, the local screen can no longer be displayed in the multipoint video conference.</li> <li>• The indicators do not show the correct data when receiving the Dual Video signal.</li> </ul>
Ver02.01 (PCS-G50 Only)	July 15, 2005	<p><b>Fixed Bugs</b></p> <ul style="list-style-type: none"> <li>• The presentation data can not be transmitted/received.</li> <li>• The presentation data can not be transmitted/received any more since PCS-G50 or G70 transmitted the presentation data once to a remote party and then stopped. This trouble will occur only when PCS-G50 is peer-to-peer connected to PCS-G70 via IP. With the other conditions, trouble as above does not occur definitely.</li> </ul>



## Videoconferencing

Ver02.10	Sep 24,20 05	<p><b>New Functions</b></p> <ul style="list-style-type: none"><li>• Standard encryption support (for both PCS-G70/G50)</li><li>• Presenter mode for the tracking camera (PCSA-CTG70) support (only for PCS-G70)</li><li>• PRI support (only for PCS-G50)</li><li>• Streaming support (only for PCS-G50)</li><li>• UPnP support (for both PCS-G70/G50)</li><li>• ToS (Can be set by data type) (for both PCS-G70/G50)</li><li>• User's terminal information display on launcher (for both PCS-G70/G50)</li></ul> <p><b>Improved Functions</b></p> <ul style="list-style-type: none"><li>• Camera can be fine-tuned (for both PCS-G70/G50)</li><li>• The performance of transmitting presentation data by DSB is improved (same for PCS-G70/G50).</li><li>• The performance of the Video mode (H.263 4CIF) is improved (same for PCS-G70/G50).</li><li>• Web improvement (for both PCS-G70/G50)</li><li>• UI improvement (for both PCS-G70/G50)</li><li>• MIC/AUX-IN is muted when the DTMF tone transmission window is displayed (for both PCS-G70/G50)</li><li>• Any key other than the PowerOn button returns the unit from standby (for both PCS-G70/G50)</li><li>• Bit rate for the automatic route control (ARC) Video no longer becomes 0 (for both PCS-G70/G50)</li><li>• Holding down the Far/Near keys allows the camera control target for the other party to be switched to direct (for both PCS-G70/G50)</li><li>• Whether or not the model and version match is checked when loading the setting file (same for PCS-G70/G50).</li><li>• Enabling or disabling connection-related settings (same for PCS-G70/G50)</li></ul> <p><b>Added Service Commands</b></p> <ul style="list-style-type: none"><li>• PKS * * * * (for both PCS-G70/G50)</li><li>• TCB (PCS-G70 only)</li><li>• SIP expanded functions (for both PCS-G70/G50)</li></ul> <p><b>Problems fixed in Ver1.20 Ver2.10</b></p> <ul style="list-style-type: none"><li>• Sub address does not function properly (same for PCS-G70/G50).</li><li>• A Wizard is launched if IP setting is not performed (same for PCS-G70/G50).</li><li>• ISDN multi-point transmission cannot be performed with only H.320MCU option installed (same for PCS-G70/G50).</li><li>• Multi-point transmission from Web I/F fails (same for PCS-G70/G50).</li><li>• During Cascade connection, the point name is displayed as in some cases (same for PCS-G70/G50).</li><li>• Input cannot be switched properly from Web I/F in some cases (PCS-G50 only).</li><li>• Still images cannot be sent correctly in some cases (same for PCS-G70/G50).</li><li>• When the video input is set to IR1, the video of IR1 is not displayed correctly after restart (same for PCS-G70/G50).</li><li>• When the Video mode is PAL, if the number of the monitor is set to 1 and its output setting to DSB RGB, the launcher is not displayed correctly when the power is turned on (same for PCS-G70/G50).</li><li>• When restored from standby, the camera does not return to the position before standby (PCS-G70 only).</li><li>• When the sub camera is connected, the Web Monitor of Web I/F cannot be displayed correctly (same for PCS-G70/G50).</li></ul> <p><b>Problems in Ver2.10</b></p> <ul style="list-style-type: none"><li>• A broadcaster icon is displayed during the connection between two units (same for PCS-G70/G50).</li><li>• A still image is received about 0.5 seconds later in some cases (same for PCS-G70/G50).</li><li>• When the split screen is displayed during Multi-point connection, operation to switch between the remote party and the user's own terminal can be performed from Web I/F (same for PCS-G70/G50).</li><li>• In the Multi-point conference using PRI, some points cannot send or receive video correctly (same for PCS-G70/G50).</li><li>• During ISDN point-to-point connection, presentation data cannot be sent properly by DSB in some cases while both terminals are sending Dual Video (PCS-G70 only).</li></ul>
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Ver2.20		<p><b>New Functions</b></p> <ul style="list-style-type: none"> <li>Standard encryption support (for both PCS-G70/G50)</li> </ul> <p><b>Improved Functions</b></p> <ul style="list-style-type: none"> <li>Improvement of Sound Quality for PCSA-A7P4 (for both PCS-G70/PCS-G50)</li> <li>Revision of communication mode settings (4CIF, Interlace) and priority order for video codec mode (for both PCS-G70/PCS-G50)</li> <li>H.239 abilities of presentation and dual video can each be set On/Off individually (PCS-G70 only)</li> <li>Web improvement (for both PCS-G70/G50)</li> </ul> <p><b>Problems fixed in Ver2.20</b></p> <ul style="list-style-type: none"> <li>Immediately after making IP connection (approx. 30 sec), the video and audio were unsynchronized.</li> <li>When the split screen is displayed during Multi-point connection, operation to switch between the remote party and the user's own terminal can be performed from Web I/F (same for PCS-G70/G50).</li> <li>During ISDN point-to-point connection, presentation data cannot be sent properly by DSB in some cases while both terminals are sending Dual Video (PCS-G70 only).</li> <li>When the unique Sony encryption was set, the signal was unencrypted over an ISDN connection but PCS did not correctly send and receive presentations through DSB (for both PCS-G70/PCS-G50)</li> <li>When sending dual video, drop frames sometimes occurred in the main video (PCS-G70 only)</li> <li>During SIP connection, the ringback tone did not sound correctly on the outgoing transmission terminal (for both PCS-G70/PCS-G50)</li> <li>Service command PKS**** did not function correctly (for both PCS-G70/G50)</li> </ul> <p><b>Problems in Ver2.20</b></p> <ul style="list-style-type: none"> <li>A broadcaster icon is displayed during the connection between two units (same for PCS-G70/G50).</li> <li>A still image is received about 0.5 seconds later in some cases (same for PCS-G70/G50).</li> <li>In the Multi-point conference using PRI, some points cannot send or receive video correctly (same for PCS-G70/G50).</li> </ul>
Ver2.21		<p>The PCS couldn't send the Audio and video data over 330 times connection without power off.</p>
Ver2.22		<p><b>Problems fixed in Ver2.22</b></p> <ul style="list-style-type: none"> <li>Did not enter the IP address normally with a PCS in which PCSA-M3G70/M3G50 only was installed. (for both PCS-G70/G50)</li> <li>During IP connection at 1024 kbps or below, sound was not synchronized with motion. (for both PCS-G70/G50)</li> <li>Character display position "H.239" in "Communication" setup menu was displaced to the right, when it was being changed using the web control function. (only for PCS-G50)</li> <li>Improper error message appeared when an unplugged endpoint was called. (for both PCS-G70/G50)</li> <li>Improper error message appeared when an unplugged endpoint or nonexistent endpoint</li> </ul>
Ver2.23		<p><b>Problems fixed in Ver2.23</b></p> <ul style="list-style-type: none"> <li>Digital zoom mode doesn't work. (for both PCS-1/11)</li> </ul>
Ver2.24		<p><b>Problems fixed in Ver2.24</b></p> <ul style="list-style-type: none"> <li>When sending the presentation data over a low bit rate IP connection, the data transmission rate temporarily became faster and the other terminal was sometimes unable to receive the data correctly due to this burst in speed. (The smoothing process did not function properly when transmitting presentation data at a low bit rate.) (PCS-G70/G50)</li> <li>The transmission bitrates of the image fell down to 0 occasionally by the fact that the delay is large and under a bad network conditions. (PCS-G70/G50)</li> <li>The machine of a certain Mac Address did not operate correctly occasionally. It overlaps with the port that the port number used by an internal process communication uses to communicate with the outside. (PCS-G70/G50)</li> <li>The message of "boot sum changed" is not displayed.(PCS-G70/G50)</li> <li>Receiving the fast update request from the remote terminal, there was some cases where encoding Process in intra mode did not work normally.</li> </ul>

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Ver2.30	<p><b>New Functions</b></p> <ul style="list-style-type: none"> <li>• The new remote commander “PCSA-RG1” is supported.</li> <li>• Thai language support.</li> <li>• The receiving a data of dual video function is supported on the PCS-G50. (Only PCS-G50)</li> <li>• The disk on chip device is supported.</li> </ul> <p><b>Improved Functions</b></p> <ul style="list-style-type: none"> <li>• The quality of echo canceller is improved.</li> <li>• A name of signal encryption method is changed.</li> <li>• A name of NAT mode is changed.</li> <li>• The digital zoom function of camera unit is changed the setting on GUI.</li> <li>• The service command is supported in the speaker tracking mode on the tracking camera(PCSA-CTG70)</li> <li>• The name of video mode “H.263 Interlaced SIF” on the communication status is changed.</li> <li>• When a dial number is judged not to be an IP address, access to the DNS. If “@” is included in a dial number column, access to the GateKeeper (PCS send the ARQ (AdmissionReQuest) to the GateKeeper and receive the ACF (AdmissionConFirm) from the GateKeeper).</li> </ul> <p><b>Problems fixed in Ver2.30</b></p> <ul style="list-style-type: none"> <li>• On the MCU conference, the name of sites is not displayed in the six-split window mode.</li> <li>• The 2 nd camera is not controlled. (Only PCS-G70)</li> <li>• When a conference was connected through an IP connection for a long period of time, the connection sometimes severed under certain environments.</li> <li>• A problem occurred where presentation data was not sent correctly by H.239 during a connection to a Tandberg MPS.</li> <li>• A problem occurred where the GateKeeper registration did not match and the PCS could not be connected to GateKeeper correctly.</li> <li>• The Setting data is lost, if the mechanical power switch is off when go to the standby mode</li> <li>• When router and PCS that PPPoE worked were connected to the same Hub, PPPoE does not work.</li> <li>• In the Multi-point conference using PRI, some points cannot send or receive video correctly.</li> </ul>
Ver2.31	<p>In PCS-G70/G50 Ver 2.30, some users could not upgrade correctly with the Memory Stick. When upgrading with the Memory Stick (or when downgrading from the service menu), the unit kept rebooting repeatedly. When this situation occurred, the application would load correctly if the Memory Stick was removed from the unit, but the application program would not be updated. This problem did not cause any permanent problems with the equipment. The unit operated correctly with the previous version.</p> <p>If this problem occurred, the user could upgrade correctly using the ftp tool. This problem has been corrected in PCS-G70/G50 Ver 2.31.</p>
Ver2.31P01	<p>In Ver 2.30, the echo canceller function was improved, but the function did not work correctly under certain environments or operating conditions. (Symptoms of the problem)</p> <ul style="list-style-type: none"> <li>• During a conference call, the sound coming from the other party gets louder and softer in waves.</li> <li>• The volume deteriorates until it cannot be heard.</li> <li>• The sound becomes inaudible for a few seconds, but then becomes audible again.</li> </ul> <p>Therefore, only the echo canceller function in Ver 2.31 P01 has been returned to the same version as used in Ver 2.2X. Use this version if you experienced the problems noted above with Ver 2.30/Ver 2.31.</p>
Ver2.40	<p><b>New Functions</b></p> <ul style="list-style-type: none"> <li>• Support for video mode H.263 4CIF during a multi-point conference. (PCS-G70/G50)</li> <li>• Support for SNTP</li> <li>• Support AMX Duet device discovery</li> <li>• New echo canceller algorithm</li> <li>• Support IPELA VC Link service (Service available to JAPAN only)</li> </ul> <p><b>Problems fixed in Ver2.40</b></p> <ul style="list-style-type: none"> <li>• When changing the NAT settings, the PCS would reboot</li> <li>• The Whiteboard could not always be recognized correctly</li> <li>• When PCS-G50/G70 was the MCU in a multi-point connection, if the audio mode changes</li> <li>• The video from the MCU would sometimes be delayed during an ISDN multi-point conference</li> <li>• When using an ISDN unit, the number of lines to use for ISDN could not be set correctly via Web</li> </ul>

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		<ul style="list-style-type: none"> <li>• MCU mode if the "display" key was pressed via child terminal the camera would become inoperable</li> <li>• Garbled address registry history display</li> <li>• Video input name display position not correct. (PCS-G50 only)</li> <li>• H.239 Dual configuration settings lost. (PCS-G50 only)</li> </ul>
Ver2.41		<p><b>New Functions</b></p> <ul style="list-style-type: none"> <li>• The new service command "NOPT61" is supported</li> </ul> <p><b>Improved Functions</b></p> <ul style="list-style-type: none"> <li>• Improved the picture quality of H.263 4CIF mode</li> </ul>
Ver2.42		<p><b>New Functions</b></p> <ul style="list-style-type: none"> <li>• The LED device on the front has changed in PCS-G70/PCS-G50</li> </ul>
Ver2.43		<p><b>New Functions</b></p> <ul style="list-style-type: none"> <li>• A hardware change of PCS-G70/G50 was introduced in May 2007. PCS application software has to be changed for the checking hardware block. This hardware change has no limitation of all functions.</li> <li>• PCS-G70/G50 Ver2.43 is supporting both current hardware and new hardware.</li> </ul> <p><b>Problems fixed in Ver2.40</b></p> <ul style="list-style-type: none"> <li>• In 6 mosaic mode (Video mode is H.263 4CIF), an image sometimes has a noise for an instant when speaker is changed.(PCS-G70/G50).</li> <li>• There may be no "connect complete" message when the connection is established by an external command via telnet.(PCS-G70/G50)</li> <li>• The terminal name is not displayed correctly when any participated terminal disconnects or an additional participates terminal in the multipoint conference. (PCS-G70/G50)</li> <li>• A user accesses a PCS (of which status is standby) via ftp, the user cannot wake up the PCS. (PCS-G70/G50)</li> <li>• PCS-G70/G50 may reboot, if it is connected to the SIP Phone (PCS-G70/G50)</li> <li>• Some terminals cannot receive and send the video in the multipoint conference (where video mode is H.263 4CIF) (PCS-G70/G50)</li> </ul>
Ver2.50		<p><b>New Functions</b></p> <ul style="list-style-type: none"> <li>• Added compatibility over NAT/firewall (H.460) (PCS-G70/G50)</li> <li>• Added Shared Phone Book function (PCS-G70/G50)</li> <li>• Added Side by side and Picture and picture modes to the display mode (PCS-G70/G50)</li> </ul> <p><b>Improved Functions</b></p> <ul style="list-style-type: none"> <li>• Improved the error status relating to the IP network in the launcher display(PCS-G70/G50)</li> <li>• Improved the communication status display during IP connection(PCS-G70/G50)</li> <li>• Added support for Dual video function based on the H.239 Presentation standard in an IP connection to increase compatibility with other manufacturers' terminals (PCS-G70/G50)</li> <li>• In a multipoint conference, a speaker can be displayed on sub-monitors using MCU (PCS-G70/G50)</li> <li>• Added detail for explanatory codes when a conference ends (is disconnected) (PCS-G70/G50)</li> <li>• Improved FTP upgrade software (PCS-G70/G50)</li> <li>• While receiving presentation data, the remote image can be displayed in the picture window by using PinP (PCS-G70/G50)</li> <li>• When one entry is highlighted on the phone book menu, the name now appears on the bottom of the screen (PCS-G70/G50)</li> <li>• In communication status, the video codec mode display "H.263 4CIF" is divided into "H.263 4CIF" and "H.263 4SIF" (PCS-G70/G50)</li> <li>• With BRC-300, the camera has an internal delay, and a service command now allows a sound delay to be encoded in PCS (PCS-G70/G50)</li> <li>• Added a command to start/stop sending Dual video to the external control commands (PCS-G70 only)</li> <li>• A command to check the point ID and name of remote terminals in connection is added to the external control commands (PCS-G70/G50)</li> <li>• Added UPnP router compliance(PCS-G70/G50)</li> <li>• Added limits to text input in Web I/F(PCS-G70/G50)</li> </ul> <p><b>Problems fixed in Ver 2.50</b></p> <ul style="list-style-type: none"> <li>• When using Microsoft IE7, some settings cannot be configured properly from the PCS Web interface (PCS-G70/G50)</li> <li>• Another error message was displayed over the message for upgrading the peripheral devices (PCS-G70/G50)</li> </ul>

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	<ul style="list-style-type: none"> <li>• Repeating SIP transfer operations restarted the terminal performing the transfer (PCS-G70/G50)</li> <li>• When a call made from the history was immediately cancelled, the screen display was distorted (PCS-G70/G50)</li> <li>• When SNTP was enabled, errors were output to the system log even on standby (PCS-G70/G50)</li> <li>• Line type for direct dial on the launcher screen did not become Auto after start-up by turning the power on (PCS-G70/G50)</li> <li>• When using H.264 Interlaced SIF, video may have become washed out on images with noise or fast movement after regular intra frames (PCS-G70/G50)</li> <li>• When using an ISDN line connected to a PBX (switching system) for a long time, making/receiving a call could not be performed properly (PCS-G70/G50)</li> <li>• Information about the connected conference was not recorded properly in the call log (PCS-G70/G50)</li> <li>• H.323 alias/E.164 number did not appear on the launcher screen after turning the power on (PCS-G70/G50)</li> <li>• If a PC image was sent or if transmission was stopped using the presentation function while receiving Dual video, the screen did not return to the Dual video reception screen (PCS-G70/G50)</li> </ul> <p><b>Problems in Ver. 2.50</b></p> <ul style="list-style-type: none"> <li>• If QoS setting is in Hybrid mode or if FEC, ARQ, and ARC are all set to On, when a PC image is sent/received using the presentation function, some presentation data packets cannot be restored by the ARQ function (PCS-G70/G50)</li> <li>• When configured to automatically send Dual video upon starting a conference during H.239 Presentation mode, Dual video data cannot be sent but the icon for sending Dual video appears (PCS-G70 only)</li> <li>• The function of UPnP (same for PCS-G70/G50).</li> <li>• A broadcaster icon is displayed during the connection between two units (same for PCS-G70/G50).</li> <li>• A still image is received about 0.5 seconds later in some cases (same for PCS-G70/G50).</li> </ul>
Ver2.51	<p><b>Fixed Problems in Ver 2.51</b></p> <ul style="list-style-type: none"> <li>• During a multipoint conference using both ISDN and IP connection, when a child terminal with IP connection sent PC images via DSB, the PC images were not received correctly on the child terminals with ISDN connection.</li> <li>• When the phone book had at least 32 entries with images attached, entries could not be copied or all deleted at once.</li> </ul>
Ver2.63	<p><b>Fixed Problems in Ver 2.63</b></p> <ul style="list-style-type: none"> <li>• Terminal name display issue with six split mcu</li> <li>• Mpeg4 video after SIP connection resulted in black screen</li> <li>• Corrected terminal type within SIP connection</li> <li>• Video rate became less in non bonded ISDN MCU calls</li> <li>• Fixed still image transfer problem when H264 is used</li> </ul>
Ver2.64	<p>As the disc on chip IC of PCS-G50/PCS-G70 is changed, related components around drivers are changed accordingly in order to correspond to the new IC. The above change for mass production will start from November, 2008. All the PCS-G70/G50 support version 2.64. The PCS-G70/G50 with this new disc on chip incorporated do not support earlier releases.</p>