



# HD Visual Communication Unit

KX-VC1300/KX-VC1600

(Software Ver4.25)

Release Note

Ver1.0

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Panasonic System Networks Co., Ltd.

Security Systems Business Division

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# 1. Introduction

## 1.1. Purpose

This release note mentions about software version 4.25 for HD visual communication unit (Referred to as "HDVC" hereinafter) KX-VC1300/1600.

HD Visual Communication Mobile is abbreviated as HDVC Mobile hereafter.

## 1.2. Object Model

Object models for this release note are as follows.

Model	Note
KX-VC1300(SX,CH)	
KX-VC1600(SX,CH)	

※Ver4.25 does not support KX-VC500, KX-VC300 nor KX-VC600.

## 1.3. Disclosure scope

Disclosure scope is for end user, the sales companies, SIer and dealers which are in charge of system up, setting and maintenance.

## 1.4. Contents

This release note mentioned as follows.

- Update information for Ver4.25
- Update information for previous versions

## 2. Update information for KX-VC1300/VC1600

Regarding software Ver.4.25, the following list shows the new function and update information comparing to software Ver. 4.20.

Yes: Supported, Conditionally: Available by Activation, No: Unsupported (unavailable)

Item	Function	Remarks	Object Model	
			VC1600	VC1300
New Functions	Presentation mode	<ul style="list-style-type: none"> <li>• Add Presentation mode in MCU mode which is suitable for lecture-style conferences. By selecting Presentation mode, the main site can see a composite image including subsites, and the sub sites can see the image of main site only.</li> <li>• You can easily change the MCU mode during a conference call, by using MCU setting menu or just pressing the yellow button of remote control.</li> <li>• Add Presentation mode icon whose display mode is selectable by the setting.</li> </ul>	Yes	Yes
Improvement of Functions	Audio Mix Selection mode	<ul style="list-style-type: none"> <li>• Add Mix (selection) mode to “Other Site’s Audio” setting menu. In Mix (selection) mode, you can select up to four sites freely as audio mix sites during a conference call. And its Mix mode and sites selection can be saved in a profile.</li> </ul>	Yes	Yes
	Main position selection in Voice Activation2	<ul style="list-style-type: none"> <li>• Added choices of sites to main display in “Voice Activation 2”. In the Voice Activation 2 of Main Position setting, you can select any site for main display position.</li> <li>• You can change this site selection during a conference call.</li> </ul>	Yes	Yes
	Specified position mode for MCU composite image.	<ul style="list-style-type: none"> <li>• Add specified position mode for MCU composite image. In this mode, you can see each sub site’s image in the specified position of MCU composite image.</li> </ul>	Yes	Yes
	GUI language	<ul style="list-style-type: none"> <li>• Add Arabic to GUI</li> <li>• Note: There may not be the right-justified representation in some setting pages.</li> </ul>	Yes	Yes
	Improvement of voice activation1 and voice activation 2	<ul style="list-style-type: none"> <li>• Adjust screen switch sensitivity during voice activation mode.</li> </ul>	Yes	Yes
	NAT setting for Symmetric NAT in GUI	<ul style="list-style-type: none"> <li>• Add GUI menu of "Conversion IP and Port Num" function for mobile connection via symmetric NAT router.</li> </ul>	Yes	Yes
Others	Other improvement	<ul style="list-style-type: none"> <li>• Improve resolution of sending video in the situation of network bandwidth fluctuation such as mobile network.</li> <li>• Improve the event of failure that rarely occurs in communication with mobile terminal via NAT router.</li> <li>• Support “output local site sound” during Multicast.</li> </ul>	Yes	Yes

		<ul style="list-style-type: none"> <li>• Support “Forced Answer” mode during Multicast.</li> <li>• Improve behavior in situations that multiple processes, such as content share and incoming call and so on, occur at the same time.</li> <li>• Improve behavior of content sharing start process with HDMI audio input setting to “Sub Camera + PC”</li> <li>• Improve video input changing behavior in situations that starting dual stream just after single stream terminal leaves the meeting.</li> <li>• Improve layout changing behavior in situations that several sub sites start single stream at the same time.</li> <li>• Improve video format recognition accuracy of HDMI main camera and PC-VGA input.</li> <li>• Improve video signal detection accuracy of HDMI main camera input via HDMI splitter.</li> <li>• Improve event that HDMI 2 and HDMI 3 rarely cannot display video in the case of IP address is not acquired.</li> <li>• Improve event that HE30 camera with serial camera control connection rarely display blueback image after restarting HE50 camera.</li> <li>• Improve the event of failure that rarely occurs in transitions to service stop state.</li> <li>• Improve behavior of status LED in situations that happens auto answer to incoming call during standby mode.</li> <li>• Support external I/F of uploading encryption data.</li> <li>• Improve behavior of site selection in profile that enables deselect the site whose connection mode is invalid.</li> <li>• Improve the call history of IPv6 connection.</li> <li>• Improve behavior in the situations that receiving incoming call while editing profile.</li> <li>• Improve the event of failure that rarely occurs when receiving more than the number of licenses incoming calls.</li> <li>• Improve GUI language representation.</li> <li>• Improve the behavior of displaying encryption icon for SIP when SIP is disabled during “IP/NAT Traversal mode”</li> <li>• Improve the behavior of changing Main Position setting during communication.</li> <li>• Strengthen input error check for IPv6 address.</li> <li>• Support ICMP redirect.</li> </ul>		
	Enhanced connectivity	<ul style="list-style-type: none"> <li>• Improve behavior as a sub site during connection with SONY XG series and</li> </ul>	Yes	Yes

	with other companies	<p>H.263+ terminal and receiving dual stream from main site.</p> <ul style="list-style-type: none"> <li>• Improve behavior of PC sharing in case that Polycom ViewStation joins during dual streaming from sub site.</li> <li>• Improve behavior in case that some parties leave from the conference during SIP connection with Cisco C60(TC7.1.4)</li> <li>• Improve the event of black image at LifeSize Express in the situations that main site starts PC sharing during the conference whose connection order is HUAWEI_TE30, Cisco_SX20 and Lifesize_Express.</li> <li>• Improve the event of disconnection just after connection that rarely occurs in the situations that MCU of Polycom HDX serie start multi-site conference.</li> <li>• Support dual streaming in the conference joined via IVR of MCU-AVAYA Elite series.</li> <li>• Improve the event of disconnection just after content sharing in the situations that MCU-AVAYA Elite becomes to be high-load state with over 100 terminals conference.</li> <li>• Improve connectivity with Polycom MGC100 for the case that maximum bandwidth setting exceeds MCU meeting's one.</li> <li>• Improve the event of PC's black image at SONY G series that rarely occurs in the multipoint conference with SONY G series.</li> <li>• Improve the event of disconnection just after connection in the case that Polycom VSX series joins at over 768kbps during dual streaming at multipoint conference.</li> <li>• Improve behavior of XGA PC sharing with SONY G series by changing capability exchange process.</li> <li>• Improve the event of displaying inappropriate aspect ratio image in the connection with Polycom VSX series under 768kbps bandwidth.</li> <li>• Improve the event of black image in the situations that Polycom terminal starts content sharing during connection with Polycom RMX series whose video codec setting for H.239 is H.263.</li> <li>• Improve the event of black image at Cisco 880MXP in the situations that HDVC starts PC content sharing during conference with Polycom HDX series, LifeSize Express and Cisco 880MXP.</li> <li>• Support dual streaming in the conference of Cisco Codian MCU in which its encryption settings are on and off mixed.</li> </ul>		
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Regarding software Ver.4.20, the following list shows the new function and update information comparing to software Ver. 4.15.

Yes: Supported, Conditionally: Available by Activation, No: Unsupported(unavailable)

Item	Function	Remarks	Object Model	
			VC1600	VC1300
New Functions	Multicast	<ul style="list-style-type: none"> <li>Support for Multicast which is a one-way communication service that allows one HDVC to multicast video and audio to other HDVCs of up to 30units.</li> <li>The setting of Multicast tree, the start and stop of Multicast is enabled by GUI operation.</li> </ul>	Conditionally	Conditionally
	IPv6 address support	<ul style="list-style-type: none"> <li>IPv6 address is available for communication.</li> <li>IPv4 address and IPv6 address is used at same time. (IPv4 and IPv6 dual stack support)</li> </ul>	Yes	Yes
	Mobile connection	<ul style="list-style-type: none"> <li>By activate “Mobile Connection” enhancement to HDVC, the mobile devices can connect to the HDVC in IP mode without mobile activation.</li> </ul>	Conditionally	Conditionally
Improvement of Functions	Add setting items to GUI	<ul style="list-style-type: none"> <li>Add setting for audio input from HDMI equipment.</li> <li>Add setting whether changes or not layout to Camera Settings menu.</li> <li>Add menu screen that can be registered to shortcut function.</li> </ul>	Yes	Yes
	Contact List	<ul style="list-style-type: none"> <li>Add “All” tab to contact list to show all contacts in a list.</li> </ul>	Yes	Yes
	Content sending method	<ul style="list-style-type: none"> <li>Add function that can change content sending method in communication by selecting the dual stream or the single stream.</li> </ul>	Yes	Yes
	Encryption setting	<ul style="list-style-type: none"> <li>The encryption setting of SIP is separated IP mode (SIP) and NAT Traversal mode and can be set individually.</li> </ul>	Yes	Yes
	Max. Bandwidth for each LAN interface	<ul style="list-style-type: none"> <li>Add setting to set maximum bandwidth per a site for each LAN interface.</li> </ul>	Yes	Yes
	PC resolution	<ul style="list-style-type: none"> <li>Add supported PC resolution. FWXGA1 (1360x768) FWXGA2 (1366x768) WXGA+ (1440x900) WXGA++ (1600x900)</li> </ul>	Yes	Yes
	CPn layout	<ul style="list-style-type: none"> <li>Add CP9 setting to CPn layout.</li> </ul>	Yes	Yes
	MIC mute at making a call	<ul style="list-style-type: none"> <li>Add setting to mute the MIC at making a call</li> </ul>	Yes	Yes
	Store and restore of Encryption data	<ul style="list-style-type: none"> <li>Add function to store and restore the Encryption configuration data.</li> </ul>	Yes	Yes

	Factory default change	<ul style="list-style-type: none"> <li>• [Call set up]-[More than one incoming call] OFF -&gt; ON</li> <li>• [MCU Settings]-[The Main Position] [Profile Settings]-[The Main Position] Voice activation 1 -&gt; Local Site</li> <li>• [Encryption]-[Encryption(H.323)] [Call set up]-[Encryption(H.323)] Best effort -&gt; OFF</li> </ul> <p>If the firmware is updated, the settings are maintained from the previous version.</p>	Yes	Yes
	Forced answer function	<ul style="list-style-type: none"> <li>• Add function that responds automatically an incoming call without displaying the incoming confirmation pop-up in other than the home screen.</li> </ul>	Yes	Yes
	Manual Dial screen improvement	<ul style="list-style-type: none"> <li>• Add function that displays the name of the contact list instead of IP address when a destination is selected from the contact list.</li> </ul>	Yes	Yes
	Web console	<ul style="list-style-type: none"> <li>• Add function to Web console as below. Edition of contact list Edition of Profile Setting of Multicast tree and start/stop of Multicast</li> </ul>	Yes	Yes
	Improvement of acquisition timing of WAN IP address	<ul style="list-style-type: none"> <li>• WAN IP address acquisition timing is improved from start-up only to periodical check (default: 240sec) when Static NAT setting and automatic acquisition are enabled in IP Mode.</li> </ul>	Yes	Yes
	Improvement of connectivity with HDVC Mobile	<ul style="list-style-type: none"> <li>• Improvement of connectivity with HDVC Mobile under Symmetric type NAT router.</li> </ul>	Yes	Yes
	GUI language (CH model only)	<ul style="list-style-type: none"> <li>• Add language to GUI Deutsch, Français, Italiano, Nederlands</li> </ul>	Yes	Yes
	Other improvements	<ul style="list-style-type: none"> <li>• Add function that turns off the MIC LED when becoming screen standby.</li> <li>• Add function that displays the registered name of other site in the contact list in unit information screen during communication</li> <li>• Add setting that resets the call duration when the call duration time exceeds 99 hours 59 minutes.</li> <li>• In case of AAC-LD audio codec the sound interruption is prevented when the number of site changes from 2 to 3 or from 3 to 2.</li> <li>• Add the setting to select the camera aspect ratio from full screen mode or center-cut mode when sending video using H.261/H.263.</li> <li>• RCA input level is maintained after version up.</li> <li>• Improvement of 60fps rendering performance.</li> <li>• Improvement of behavior in the case of incoming call when the main stream is switched during dual stream transmission.</li> <li>• Improvement of behavior that PinP video</li> </ul>	Yes	Yes



becomes the other site's content if HDVC is switched to dual stream reception during dual stream transmission and PinP execution.

- Improvement of behavior that dual stream function might not be enabled after an endpoint that doesn't have the dual stream function leaves from the conference at NAT Traversal environment.
- Improvement of behavior that "Sending Content" remains displayed when dual stream is started by H.239 and it is rejected by the other endpoint.
- Improvement of behavior that the other site's name is not displayed after content sharing by H.239 at the time of 2-party conference.
- Improvement of content sharing behavior by single stream when the setting of "The Main Position" is "Voice activation 2" and the setting of "Other Sites's Audio" is "Mute".
- Improvement of behavior that the displayed video becomes strange when the operation of content sharing stop at the Main site and disconnection of the sub site occurred at the same time.
- Improvement of behavior that the camera image might be displayed momentarily when the PC cable (HDMI cable or VGA cable) is removed during content switching in non-communication.
- Improvement of behavior that the incoming confirmation pop-up is displayed when an incoming call is received during session change even if the "Answer Mode" is set to "Auto".
- Improvement of behavior that the conference is rarely disconnected at the very bad network environment by improvement of follow-up to the network quality. (for example more than continuous 3 % packet loss)
- Improvement of behavior that the transmission rate remains low at large packet loss environment due to congestion.
- Improvement of behavior that the output video of HDMI3 might be distorted when "Output of HMDI3" is set to "Local site video" and the main camera is not connected.
- Improvement of behavior that the ringing tone might not ring when "Answer Mode" is set to "Auto".
- Improvement of behavior that the received image remains distorted and is not recovered and that occurs very rarely.

- Improvement of behavior that MIC red LED is flashing dimly at a high speed in non-communication.
- Improvement of behavior that welcome-screen sound might not sound at start-up and a call might not be made.
- Improvement of behavior that MIC is muted when “Default MIC Mute set” is set to “ON” and 3-party conference becomes 2-part conference.
- Improvement of behavior that DSN query does not work correctly when srv record search is enabled.
- Improvement of behavior that the input character in number mode is different from the description of the user manual.
- Improvement of behavior that GUI does not work correctly when more than 20 incorrect routing configurations are set.
- Improvement of behavior that the input of sub camera might not displayed according to PC output when the input is changed from PC(VGA) to 1080p sub camera during content sharing.
- Improved operation when DHCP lease is expired during vides conference in NAT Traversal Service.
- Improvement of GUI behavior that the content of call history ([B] button during video conference) is not correct when multi-party conference is made to incorrect endpoints such as incompatible encryption setting and correct endpoints.
- Improvement of behavior that GUI language becomes Japanese when a new local site setting is generated by “Add New” at “select local site” menu.
- Improvement of behavior that noise is superimposed on the voice when HDVC is connected to OKI Visual Nexus using G.711 A-low codec.
- Improvement of behavior that the system error occurs on connecting to the H263\_4CIF conference room of the old version of OKI Visual Nexus. Since its conference room is not supported by HDVC, it is to be successfully disconnected.
- Improvement of behavior that dual stream cannot be made after connection with SIP in the conference room of the old version of CISCO Codian.
- Improvement of behavior that HDVC recognizes that the H.263 stream from Mediapoint IP2 is abnormal and disconnects it.
- Improvement of behavior that the conference is disconnected when HDVC

		<p>receives invalid H.263 stream without a marker bit.</p> <ul style="list-style-type: none"> <li>• Improvement of behavior that the camera control cannot be done by SONY XG series when HDVC connects to it in H.323 encryption.</li> <li>• Improvement of behavior that the screen flickers only immediately after the start of content sharing by the main site at multi-party conference that SONY XG series participates in.</li> <li>• Improvement of behavior that the screen flickers at the start of content sharing by HDX series during the multi-party conference that Polycom HDX series, SONY XG series and Lifesize Express are participate in.</li> <li>• Improvement of behavior that the content is not displayed at SONY XG series when during content sharing it participates in multi-party conference that Polycom HDX series participate in.</li> <li>• Improvement of behavior that the content might not be displayed at CISCO C series and HDVC when during content sharing CISCO C series participates in multi-party conference that SONY XG series participates in.</li> <li>• Improvement of behavior that content sharing by HDX series cannot be made during more than 9-party conference that Polycom HDX series, Polycom VSX series and H263_QCIF non-compliant endpoints such as HUAWEI TE30 or Aver EVC900 participate in.</li> </ul>		
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Release information of Ver4.15

Yes: Supported, No: Unsupported (unavailable)

Item	Function	Remarks	Object Model	
			VC1600	VC1300
Improvement of Functions	GUI language	German, French, Italian and Dutch are supported as GUI language. (only Global model) Ver4.20 will support for JP model and CH model.	Yes	Yes
	Routing Settings expansion for LAN2	The number of the routing settings of LAN2 is extended from 10 to 50.	Yes	No
	Receiving sensitivity improvement	The receiving sensitivity is improved by changing receiving treatment of the remote control.	Yes	Yes

	of the remote control			
	HDMI Equipment connectivity improvement	The connect ability of the HDMI equipment is improved by changing the detection process, when a HDMI device generates non-standard signal.	Yes	Yes
	Screen at the start/stop of content sharing	The phenomenon that screen might flicker at the start or the end of displaying computer's screen and the sub video camera's images fixed.	Yes	Yes
	Connectibility improvement with VC300/600	Connectivity is enhanced in case connecting with KX-VC300/VC600 which are installed under NAT router and they are set up Static NAT.	Yes	Yes
	System Initialization	The internal process for initializing the system is changed.	Yes	Yes

## 3. Trademarks and Licenses

### 3.1. Trademarks

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