Panasonic

HD Visual Communication Unit

KX-VC1300/KX-VC1600

(Software Ver4.20)

Release Note

Ver1.00

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Panasonic System Networks Co., Ltd.

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1. Introduction

1.1. Purpose

This release note mentions about software version 4.20 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)	

※Ver4.20 does not support KX-VC500, KX-VC300 and KX-VC600.

1.3. Disclosure scope

Disclosure scope is for the 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 Ver4.20
・Update information for previous version

2. Update information for KX-VC1300/VC1600

Regarding software Ver.4.20, the following list shows the new function and update information comparing to software Ver. 4.15.

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

Item	Function	Remarks	Object Model	
			VC1600	VC1300
New Functions	Multicast	• 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. • The setting of Multicast tree, the start and stop of Multicast is enabled by GUI operation.	Conditionally	Conditionally
	IPv6 address support	• IPv6 address is available for communication. • IPv4 address and IPv6 address is used at same time. (IPv4 and IPv6 dual stack support)	Yes	Yes
	Mobile connection	• By activate "Mobile Connection" enhancement to HDVC, the mobile devices can connect to the HDVC in IP mode without mobile activation.	Conditionally	Conditionally
Improvement of Functions	Add setting items to GUI	• Add setting for audio input from HDMI equipment. • Add setting whether changes or not layout to Camera Settings menu. • Add menu screen that can be registered to shortcut function.	Yes	Yes
	Contact List	• Add "All" tab to contact list to show all contacts in a list.	Yes	Yes
	Content sending method	• Add function that can change content sending method in communication by selecting the dual stream or the single stream.	Yes	Yes
	Encryption setting	• The encryption setting of SIP is separated IP mode (SIP) and NAT Traversal mode and can be set individually.	Yes	Yes
	Max. Bandwidth for each LAN interface	• Add setting to set maximum bandwidth per a site for each LAN interface.	Yes	Yes
	PC resolution	• Add supported PC resolution. FWXGA1 (1360x768) FWXGA2 (1366x768) WXGA+ (1440x900) WXGA++ (1600x900)	Yes	Yes
	CPn layout	• Add CP9 setting to CPn layout.	Yes	Yes
	MIC mute at making a call	• Add setting to mute the MIC at making a call	Yes	Yes
	Store and restore of Encryption data	• Add function to store and restore the Encryption configuration data.	Yes	Yes

	Factory default change	• [Call set up]-[More than one incoming call] OFF -> ON • [MCU Settings]-[The Main Position] [Profile Settings]-[The Main Position] Voice activation 1 -> Local Site • [Encryption]-[Encryption(H.323)] [Call set up]-[Encryption(H.323)] Best effort -> OFF If the firmware is updated, the settings are maintained from the previous version.	Yes	Yes
	Forced answer function	• Add function that responds automatically an incoming call without displaying the incoming confirmation pop-up in other than the home screen.	Yes	Yes
	Manual Dial screen improvement	• Add function that displays the name of the contact list instead of IP address when a destination is selected from the contact list.	Yes	Yes
	Web console	• Add function to Web console as below. Edition of contact list Edition of Profile Setting of Multicast tree and start/stop of Multicast	Yes	Yes
	Improvement of acquisition timing of WAN IP address	• 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.	Yes	Yes
	Improvement of connectivity with HDVC Mobile	• Improvement of connectivity with HDVC Mobile under Symmetric type NAT router.	Yes	Yes
	GUI language (CH model only)	• Add language to GUI Deutsch, Français, Italiano, Nederlands	Yes	Yes
	Other improvements	• Add function that turns off the MIC LED when becoming screen standby. • Add function that displays the registered name of other site in the contact list in unit information screen during communication • Add setting that resets the call duration when the call duration time exceeds 99 hours 59 minutes. • 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. • 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. • RCA input revel is maintained after version up. • Improvement of 60fps rendering performance. • Improvement of behavior in the case of incoming call when the main stream is switched during dual stream transmission. • Improvement of behavior that PinP video	Yes	Yes

becomes the other site' 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.

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- 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.
- Improvemented 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

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		receives invalid H.263 stream without a marker bit. • Improvement of behavior that the camera control cannot be done by SONY XG series when HDVC connects to it in H.323 encryption. • 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. • 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. • 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. • 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. • 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.		

Releae 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 of the remote control	• The receiving sensitivity is improved by changing receiving treatment of the remote control.	Yes	Yes
	HDMI Equipment connectivity improvement	• The connectability 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 imageis fixed.	Yes	Yes
	Connectibility improvement with VC300/600	• Connectability 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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3.2. Licenses

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