Panasonic

March 26, 2021
Panasonic i-PRO Sensing Solutions Co., Ltd.

This document describes software package upgrade for WV-S4150/S4550L/S4550LM.

1. Release version： 4.70
2. Release Note Reference Number： S4150_014

WV-S4150/S4550L/S4550LM Release Note

VER (ActiveX VER) Release Date	Priority Rank Level				Contents		
					Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to update)		*: ONVIF is a trademark of Onvif, Inc.
	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
1.01 (4.50.31) Dec., '17					First production.		
1.10 (4.50.31) Feb., '18				x	For WV-S4150 only: Upgrade this version for using with Extension Software WV-SAE303(W) only.		
					-	-	Supported Extension Software WV-SAE303(W).
1.11 (4.50.31) Mar., '18			C	x	Administrator password may be deleted.	-	Fixed.
				x	-	-	Improved picture quality by reducing noises of moving objects while "Intelligent Auto" = "ON".
				x	Camera may restart unexpectedly upon receipt of CGI command "/cgi-bin/initial?cmd=restart".	-	Fixed.
				x	Unable to change Image capture mode by CGI command "/cgi-bin/set_imgmode".	-	Fixed.
				x	Camera may restart unexpectedly.	In case high load such as; - Multiple stream transmission - Select "AAC-LC" at Audio transmission mode - AUTO VIQS = "On"	Fixed.
1.20 (4.50.31) Jun., '18			C	x	-	-	Improved communication stability by notifying switch to turn ECO mode OFF if using with the switch in "ECO mode".
				x			Changed factory default setting for Authentication method; Previous: "Digest or Basic" New: "Digest"
							For more details: security_upgrade_June2018.pdf
				x	-	-	Changed password policy that it must include at least 3 types of characters among "upper case letters / lower case letters / numbers / symbols". For more details, click here. Note: Original passwords and authentication method of products on the system are kept unchanged even firmware and software have been updated.
							For more details: security_upgrade_June2018.pdf
				x	-	-	Added user authentication at host authentication.
				x	-	-	Became saving history of login failure into system log.
				x	-	-	Added "<< Latest 100", "Number of pages display" in "Systemlog".
				x	-	-	Expanded the parameter of the cgi command "get_io2".

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1.20 (4.50.31) Jun., '18	C				x	-	-	Added types of the Panasonic Alarm Notification as follow; SD Memory Card Write error SD Memory Card Read error SD Memory Card File Delete error SD Memory Card File system error SD Memory Card Other error
					x	-	-	Added SD memory card password lock" to "SD memory card security settings".
					x	-	-	Changed factory default setting for "Bandwidth control(bit rate)" Previous: Unlimited New: 51200kbps
					x	-	-	Changed factory default setting of "Shaping of stream from "On" to "Off".
					x	Unable to change the settings of cgi command "reg_mailaddr".	-	Fixed.
					x	If an RTSP header contains two or more User-Agent headers. no HTTP400(Bad Request) error returned and ignore the second and subsequent User-Agentheaders.	-	Fixed.
1.21 (4.50.31) Aug., '18	C				x	Solid black image may be displayed due to outputting video takes time.	During sequence operation with the network disk recorder.	Fixed.
					x	SD memory backup recording did not stop.	By turning power on / off while SD memory backup recording during connecting with the network disk recorder.	Fixed.
					x	Camera may restart by ~~both~~ network disk recorder ~~with "SD memory backup" enabled or~~ ~~and~~ image management software （WV-ASM series） are in sequence mode ~~simultaneously~~.	-	Fixed.
					x	Camera may restart by downloading the data that backed up onto SD memory card.	-	Fixed.
						Recording may not resume at restarting camera.	In a case the communication state is unstable.	Fixed.
					x	Recording may not stop at communication restoration.		Fixed.
		x				Frame rate and bit rate may drop.	By transmitting H.264/H.265/JPEG live images continuously over 1 year without being rebooted.	Fixed.
					x	May not be able to zoom in with multi-screen display by dragging with mouse.	-	Fixed.
					x	Camera may restart by disconnecting the camera's LAN cable while transmitting video in UDP.	In AC power operation.	Fixed.

Revised on Sept. 7, 2018

Revised on Nov. 7, 2018

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1.21 (4.50.31) Aug., '18			C		Recorders may not detect alarm notification even if cameras detect VMD at Stream 2.	-	Fixed.
				x	VMD on stream 2 through 4 may not detect by defining VMD area from recorders under 4-stream mode.	-	Fixed.
				x	In the connection with WV-ASM300, REC lamp on WV-ASM300 may not be lit even when manual recording on the SD memory card is started.		Fixed.
1.22 (4.50.31) Nov., '18			C	x	Multicast related settings ("Transmission type" setting and some others) may restore to the factory default settings by upgrading firmware from version 1.11 (or earlier) to version 1.20 (or later).	-	Fixed.
				x	Setting values for SNMP may be restored to factory default by downgrading the firmware from version 1.20 (or later) to earlier than version 1.20.	-	Fixed.
Ver1.23 (4.50.31) Dec.,'18			C	x	-	-	Settings of "HTTP max segment size(MSS)" to be relating to the camera action; - JPEG transmission for Face Best Shot - "HTTP alarm notification"
				x	Camera may restart, unexpectedly. (Occurrence frequency: Rare)	In case of high load such as multi-stream transmission at 60fps etc.	Fixed.
				x		By receiving ONVIF command continuously.	Fixed.
				x	Camera may send corrupt AAC-LC data.	When the transmission is delayed due to the network environment etc.	Fixed.
				x	Video distribution may not be possible.	When the configuration of UI setting for Baseline Profile were as follow; - 30fps, H.264, FHD, Other than VBR	Fixed.
				x	Communication error may occur. (Occurrence frequency: Rare)	While connecting with Network Disk Recorder, WJ-NX series.	Fixed.
Ver4.00 (4.50.35) Feb.,'19			C	x	The refresh interval value may not be reflected in the CGI command as follow; /cgi-bin/set_h264?f_priority=4&nr_framerate=1&h264_bandwidth=64&h264_quality=9&h264_Ivop=0.2	-	Fixed.
				x	Black screen may be displayed back while recording H.264/H.265 to SD memory card and turning power Off and On.	-	Fixed.
				x	-	-	Improved resolution feeling in JPEG still image update at multi screen in full screen display.
				x	May not be able to change the save destination at the time of FTP periodical transmission error.	-	Fixed.

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Ver4.00 (4.50.35) Feb.,'19	C				x	ONVIF RTSP Multicast transmission may not work.	-	Fixed.
					x	-	-	Added dedicated URL for H.265 at RTSP; rtsp://<IP address>/Src/MediaInput/h265/stream_1
				x		The settings of SMTP server may return before the setting by restarting the camera.	-	Fixed.
					x	-	-	Enhanced security.
					x	-	-	Changed the URLs of hype-link destination according to change of support page URL (from "http" to "https").
				x		Displayed full screen on the main monitor when placing IE on the sub monitor and clicking the full screen display button.	When using the two monitor screens of main and sub.	Fixed.
					x	-	-	Improved the visibility of characters in the date/time screen.
					x	-	-	Improved the resolution feeling.
					x	-	-	Added a message as follow in the "Schedule" page; "VMD permission" is required when assigning the period to be detected. Setting is not necessary when detection at any time.
					x	-	-	Changed a message by clicking the Delete button in the log list window to; Delete the log and image as the result of retrieval including the page where log is not displayed. （All of data selected by "Event" and "Recording time" are deleted.)
				x		The recorded data of the log one before the relevant time might be downloaded when downloading the recorded data from the log list.	-	Fixed.
				x		Camera may restart unexpectedly while receiving ONVIF command continuously.	-	Fixed.
				x		XML may be a syntax error by ONVIF Event command due to the XML namespace prefix was not defined at WS-Addressing.	-	Fixed.
				x		Multicast parameters did not appear in the Milestone stream setting when ONVIF camera was registered in Media 2.	-	Fixed.
				x		-	-	Improved the action of "/cgi-bin/get_io2?format=3&". [Note] Corrected not to notify by the above CGI response each time command alarm was continuously detected.
				x		When one network is disconnected from the network, the same alert screen is displayed for other cameras.	While using multi-screen display.	Fixed.

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Ver4.00 (4.50.35) Feb.,'19	C				x	Camera may restart when a file which cannot be deleted were created during JPEG overwrite recording on the SD memory card.	-	Fixed.
					x	RTC communication may not be able to be normal in rare cases when turning power from OFF to ON. (Occurrence frequency: Rare)	-	Fixed.
					x	When deleting SD card data on the log list screen, data that can not be deleted may be left while displaying the play window.	-	Fixed.
					x	H.264 streaming of ch 4 may not be able to be delivered normally depending on the distribution order.	When multicast is delivered in 4 stream mode	Fixed.
					x	-	-	Added switching function (automatic switching) of differential mode in order to increase the person counting accuracy at the time of local congestion
					x	Transmission type (H.264/H.265) and image capture size of stream may not be changed (transmission type and image capture size hold before change).	If those were changed within 2 minutes after the network had been disconnected with over RTSP connection.	Fixed.
					x	-	-	Improved visibility of "SDREC" button on the window for tablet PC.
					x	-	-	Changed encryption method of setting data along with strengthening security. [Important Information] It is not possible to restore the setting data backed up with firmware version 4.00 (or later) to the camera that operates in version earlier than Ver 4.00.
Ver4.10 (4.50.35) June,'19	C				x	-	-	Security has been enhanced.
					x	Audio may not output by attempting to connect two sessions simultaneously and failure to authenticate one of them.	-	Fixed.
					x	-	-	Added a note in the window of DDNS setting page when using "Dynamic DNS Update", "Dynamic DNS Update(DHCP)".
					x	-	-	Supported multi-browsers other than the Internet Explorer. Some restrictions apply: click here for details.
					x	-	-	Improved smooth text display by changing the texts on the screen from 2 gradations to grayscale.
					x	-	-	Added a CGI command to make an alarm; /Set?Func=SoftTrigger or /cgi-bin/Set?Func=SoftTrigger or /cgi-bin/comalarm.cgi
					x	-	-	Added interference detection information to additional information when using the i-VMD function of Extension software.
					x	-	-	Display the license of open source software (OSS) on upgrade screen.

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Ver4.10 (4.50.35) June,'19	C			x		ONVIF communication may become a cause of destroying resources.		Fixed.
				x		-	-	Fixed Session Description Protocol/SDP (IPv6) on ONVIF.
				x		Video may be black by changing the image capture mode to 25 fps with CGI (/ cgi-bin / setdata? IMG_MODE = 9m_25) because the frame rate settings for streams (1) and (2) are not 25 fps compliant.	-	Fixed.
				x		Unable to find ONVIF search.	-	Fixed.
				x		JPEG frame rate setting display becomes 0.33 fps by changing image capture mode rom 25 fps to 30 fps with CGI (/ cgi-bin / setdata? IMG_MODE) although actual transmission rate is 5 fps.	-	Fixed.
				x	The file may not be found by opening the log list during overwrite recording of the SD memory card and attempt to browse.	-	-
				x	The camera may restart by encrypting the stream 1 only, selecting audio transmission mode AAC-LC and recording video and audio simultaneously.		
				x	Session registration may remain and video may not appear by changing Transmission type from "Unicast (Auto)" to "Unicast (Manual)".	-	-
				x		Camera may stop operating by setting change repeatedly when using the people count function of the Extension software.	-	Fixed.
Ver4.20 (4.50.35) Sept.,'19	C			x	In FTP / SNMP authentication, "Authentication error" is logged in the system log by failing authentication more than a certain condition.	-	-
				x	Supported EasyIpSetup software（Ver4.31R00) and became to display serial numbers of devices.	-	-
				x	Updated (Enhanced) SNMP MIB information. The document of i-PRO camera management information (MIB) is available at the following URL; https://security.panasonic.com/training_support/panasonic_device_integration/snmp-mib/	Corrected on Nov. 8, 2019	-
			x		The slide-bar for VMD may not be able to be slid.	In Compatibility View mode on Internet Explorer.	Fixed.
			x		The camera may restart due to memory access error. (Occurrence frequency: Rare)	-	Fixed.

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Ver4.22 (4.50.35) Nov.,'19	C			x		"Transmission type" and "Multicast address" configured by system configuration tool, may not be saved.	-	Fixed.
					x	-	-	Improved a phenomenon that CPU load might increase after updating for V4.20.
Ver4.23 (4.50.38) Jan.,'20	U				x	-	-	Supports multi-browsers Google Chrome, Firefox and Microsoft Edge in addition to Internet Explorer for; - the setup screen of the extension function "i-VMD" - i-VMD frame display on the live image - the face detection frame on the live image
					x	-	-	Changed the company name in the plug-in software Active X to the new one.
Ver4.30 (4.50.38) April,'20	B				x	-	-	Added "SNMP trap setting" in [Network] > [Advanced] > [SNMP]. (Click here for detail)
					x	-	-	Enhanced security.
				x		The camera may show a black image on the "Live" page.	-	Fixed.
			x			All sessions get disconnected by executing the ONVIF® commands for changing the framerate and the resolution.	-	Fixed.
				x		-	-	Changed the date character string format for response which responds via SNMP to "DateAndTime" format as it was not transmitted correctly.
					x	-	-	Supports multi-browsers Google Chrome, Firefox and Microsoft Edge in addition to Internet Explorer for; - Playing back the images on SD memory card (Click here for detail)
					x	-	-	Changed the URL, QR code and Data_Matrix linked to the support page on the "Support" menu.
				x		"The specified multicast port is already in use. Please change the port number." may show up when displaying live images in multicasting.	-	Fixed.
			x			Manual recording may not work outside of "Access permission" hours on "Schedule".	-	Fixed.
				x		Installing "CA certificate" opens two installation screens, a small window and a tab.	-	Fixed.

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Ver4.30 (4.50.38) April,'20	B				x	The resolution may not change to the designated JPEG resolution by sending the CGI command "Mode=Motion&Resolution=640x360".	-	Fixed.
					x	Unable to aquire the resolution of 2560x1440 (16:9) by sending the CGI command "/Get?Func=ImageResolution&Kind=1&Mode=1 " with "Return:-17" error.	-	Fixed.
					x	On the "/cam" window for mobile terminal, reloading the image will show the normal live images when the camera is switched to the "Access permission" period from inaccessible period.	-	Fixed.
				x		-	-	Improved the response when reconnecting in HTTPS connection on Windows 10.
				x		-	-	Corrected the coordinate of the transmitted contents in ONVIF Metadata.
				x		-	-	Enhanced the access restriction function of SNMP v1/v2. (Click here for detail)
				x		-	-	Changed the below default setting. - [Internet mode]: from "OFF" to "ON" - [Viewer software (nwcv4Ssetup.exe)] - [Smoother live video display on the browser (buffering)] : from "ON" to "OFF". (Click here for detail)
				x		The process load on the camera may become high unexpectedly when: - The LAN cable of the network disk recorder on thereceiving side is disconnected. - The network disk recorder is powered off. (Occurrence frequency: Rare)	When streaming H.265 video using RTP over RTSP protocol	Fixed.
				x		The camera may not record the images in an SD memory card.	-	Fixed.
					x	-	-	Changed the company name in the plug-in software Active X to the new one.

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Ver4.70 (4.50.38) March,'21	C				x	-	-	Enabled both digital certificates "Digicert" and "GlobalSign". Note: Firmware upgrade does not change the certificate in a camera. Click here for further information in case of SSL communication.
					x	-	-	Improved the [HTTP alarm notification] function as follows: 1. Supports Digest authentication - The camera performs either "Digest" or "Basic" authentication according to the response from the HTTP server when initially accessed without ID and password. 2. Adds an error log for the failure in HTTP server user authentication - Displays "<HTTP alarm notification> authentication error" in the system log when the authentication fails. 3. Supports HTTPS Communication - Entering "https://" in [Address] enables HTTPS communication.
					x	-	-	Changed the behavior related to bit rate when the communication protocol is changed from "HTTP" to "HTTPS" as below. Previous versions: the camera automatically sets the bit rate to 4 Mbps when the selected one is larger than 4 Mbps. This version or later: the camera does not change the bit rate.
				x		The RTP timestamp is delayed about 10 seconds per day on a certain video management system.	-	Fixed.

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