

VER (ActiveX VER) Release Date			Priority Rank Level	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)				Contents		
WV-S2550L	WV-S2250L	WV-S1550L		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
1.02 (4.50.34) July, '18	1.02 (4.50.34) July, '18	1.02 (4.50.34) July, '18						First production.		
1.03 (4.50.34) Aug., '18	1.03 (4.50.34) Aug., '18	1.03 (4.50.34) 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		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.
						x		Recording may not stop at communication restoration.	In a case the communication state is unstable.	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.
1.10 (4.50.34) Sept., '18	1.10 (4.50.34) Sept., '18	1.10 (4.50.34) Sept., '18	C			x		"500 - Internal Server Error" may occur by setting Intruder/Loitering/Direction/Object of CGI commands for i-VMD.	In case of "Image capture mode" is set to "4:3 mode".	Fixed.
						x		Image capture size for smartphone may be incorrect.	In case of setting 400x300 to JPEG(2).	Fixed.
						x		-	-	Improved difference at contrast between super dynamic (SD) level 30 and 31.
1.11 (4.50.34) Nov., '18	1.11 (4.50.34) Nov., '18	1.11 (4.50.34) Nov., '18	C			x		Incorrect the response of the CGI command "getdata".	-	Fixed the response as follow; - Incorrect: IMAGESELECT,"5m" - Correct: IMAGESELECT,"16_9"
1.21 (4.50.34) Nov., '18	1.21 (4.50.34) Nov., '18	1.21 (4.50.34) Nov., '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		Camera may send corrupt AAC-LC data.	By receiving ONVIF command continuously.	Fixed.
						x		Setting of SNMP (Simple Network Management Protocol) may restore to the factory default settings.	When the transmission is delayed due to the network environment etc.	Fixed.
						x		Setting of SNMP (Simple Network Management Protocol) may restore to the factory default settings.	By downgrading the firmware from version 1.20 (or later) to earlier than version 1.20.	Fixed.

VER (ActiveX VER) Release Date			Priority Rank Level	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)				Contents		
WV-S2550L	WV-S2250L	WV-S1550L		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
1.21 (4.50.34) Nov.,'18	1.21 (4.50.34) Nov.,'18	1.21 (4.50.34) Nov.,'18	C			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	Ver4.00 (4.50.35) Feb.,'19	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.
Ver4.00 (4.50.35) Feb.,'19	Ver4.00 (4.50.35) Feb.,'19	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.
						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.				

VER (ActiveX VER) Release Date			Priority Rank Level	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)				Contents		
WV-S2550L	WV-S2250L	WV-S1550L		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver4.00 (4.50.35) Feb.,'19	Ver4.00 (4.50.35) Feb.,'19	Ver4.00 (4.50.35) Feb.,'19	C			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.
						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		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		Attaching an image with capture size 3072 x 2304 to an alarm email notification may cause the camera to restart depending on the subject.	-	Fixed.
Ver4.10 (4.50.35) June,'19	Ver4.10 (4.50.35) June,'19	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)".

WV-S2550L/S2250L/S1550L Firmware Release Note

VER (ActiveX VER) Release Date			Priority Rank Level	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)				Contents			
WV-S2550L	WV-S2250L	WV-S1550L		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence	
Ver4.10 (4.50.35) June,'19	Ver4.10 (4.50.35) June,'19	Ver4.10 (4.50.35) June,'19	C				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	For Chinese market models only			Changed factory default setting of the time zone to Chinese Standard Time(CST), UTC+8.
							x	-	-	Added parameters of get_capability, CGI command, for motorized variable focal lens; - Enable/disable and Magnification of EX-Zoom.	
							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.	
							x	-	-	Failed some functional tests on ONVIF.	
							x	-	-	Failed the test of ONVIF DTT v18.12 IPv6.	
							x	-	-	Unable to find ONVIF search.	
							x	-	-	The JPEG frame rate became 0.33 fps by changing the image capture mode from 25 fps to 30 fps using CGI (/cgi-bin/setdata?IMG_MODE=9m).	
							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	-	-	An issue at 4K std ONVIF Rotate DTT.	
							x	-	-	Displayed taking approx. 2 min. at alert of initializing.	
			x	-	-	Image capture size may not be switched by selecting 2560x1440 / 2560x1920 of H.265.					
			x	-	-	In English, the name of the "Image quality" tab of the "Video / Audio" on the setting screen changed to "Image / Privacy" when it entered the "Zoom / Focus adjustment" screen.					
			x	-	-	Session registration may remain and video may not appear by changing Transmission type from "Unicast (Auto)" to "Unicast (Manual)".					

VER (ActiveX VER) Release Date			Priority Rank Level	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)				Contents					
WV-S2550L	WV-S2250L	WV-S1550L		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence			
Ver4.10 (4.50.35) June,'19	Ver4.10 (4.50.35) June,'19	Ver4.10 (4.50.35) June,'19	C				x	Distortion compensation may be disabled by changing the image rotation setting from "0°" to "90°".	-	Fixed.			
Ver4.20 (4.50.35) Sept,'19	Ver4.20 (4.50.35) Sept,'19	Ver4.20 (4.50.35) Sept,'19	C				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/			
							x	-	-	Improved so that available to connect with HIKVision recorder by CGI command.			
											-	-	Fixed the response to get_capability as follow; * video_server.image.jpeg.max_size.2560x1440=1037,922,797,692,576,452,346,279,231,173 video_server.image.h264-3.bandwidth=64,128,256,384,512,768,1024,1536,2048,3072,4096,5120,6144,7168,8192,9126,10240,11264,12288,13312,14336,15360,16384,17408,18432,19456,20480,21504,22528,23552,24576 video_server.image.h264-4.bandwidth=64,128,256,384,512,768,1024,1536,2048,3072,4096,5120,6144,7168,8192,9126,10240,11264,12288,13312,14336,15360,16384,17408,18432,19456,20480,21504,22528,23552,24576
									x		-	-	
										x	The green border may not be changed even if pressing the "execute" button for "Zoom ratio designation".	-	Fixed.
										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.				

Corrected on Nov. 8, 2019

WV-S2550L/S2250L/S1550L Firmware Release Note

VER (ActiveX VER) Release Date			Priority Rank Level	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)				Contents				
WV-S2550L	WV-S2250L	WV-S1550L		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence		
Ver4.23 (4.50.38) Jan.,'20	Ver4.23 (4.50.38) Jan.,'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.		
							x	-	-	Improved the phenomenon that CPU load may increase after upgrading to version 4.20.		
Ver4.30 (4.50.38) April,'20	Ver4.30 (4.50.38) April,'20	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 camera may show black images when selecting Stream(3) or (4) using "Image display (ImageViewer)" CGI command.	-	Fixed.
									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	Except Chinese market models, WV-S2550LH and WV-S1550LH Installing "CA certificate" opens two installation screens, a small window and a tab.	-	Fixed.				

VER (ActiveX VER) Release Date			Priority Rank Level	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)				Contents				
WV-S2550L	WV-S2250L	WV-S1550L		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence		
Ver4.30 (4.50.38) April,'20	Ver4.30 (4.50.38) April,'20	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 acquire 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	Except Chinese market models, WV-S2550LH and WV-S1550LH			-	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 (nwc4Ssetup.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 the receiving 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.					

WV-S2550L/S2250L/S1550L Firmware Release Note

VER (ActiveX VER) Release Date			Priority Rank Level	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)				Contents			
WV-S2550L	WV-S2250L	WV-S1550L		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence	
Ver4.70 (4.50.38) March,'21	Ver4.70 (4.50.38) March,'21	Ver4.70 (4.50.38) March,'21	C				x	Except Chinese market models, WV-S2550LH and WV-S1550LH	-	-	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.
								-	-	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 *except WV-S2550LH and WV-S1550LH - Entering "https://" in [Address] enables HTTPS communication.	
								Except Chinese market models, WV-S2550LH and WV-S1550LH	-	-	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.
								The RTP timestamp is delayed about 10 seconds per day on a certain video management system.	-	-	Fixed.
Ver4.80 (4.50.38) June,'21	Ver4.80 (4.50.38) June,'21	Ver4.80 (4.50.38) June,'21	C				x	-	-	-	Added the following actions for SD memory card error: - Displays the following alert when a bit rate higher than "8192kbp" is selected in [Max bit rate (per client)*]: "Since the value of "Max bit rate (per client)" of H.265/H.264 recording stream set for "Recording format" is larger than "8192kbps", there is a possibility an abnormality will occur in continuity of recorded video. It is recommended to set it to "8192kbps" or less." - Records SD memory card logs on the [Status] tab in the [Maintenance] page, in the case of loss of recording or abnormal response from an SD memory card - Sends Panasonic alarm protocol "Diag." to the destination servers designated in the [Notification] tab of the [Alarm] page, in the case of abnormal response from an SD memory card
								-	-	Enhanced security.	

WV-S2550L/S2250L/S1550L Firmware Release Note

VER (ActiveX VER) Release Date			Priority Rank Level	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)				Contents		
WV-S2550L	WV-S2250L	WV-S1550L		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver4.80 (4.50.38) June,'21	Ver4.80 (4.50.38) June,'21	Ver4.80 (4.50.38) June,'21	C			x				Corrected the camera response to the CGI command "cgi-bin/setdata".
						x		The camera may show a black image. (Occurrence frequency: Rare)	When the setting in [Image capture size] or [Image capture mode] is changed repeatedly.	Fixed.
This version is for Chinese market models only (WV-S2550LH and WV-S1550LH)										
WV-S2550LH only: Ver5.00 (4.60.30) April,'22	WV-S1550LH only: Ver5.00 (4.60.30) April,'22		U				x	-	-	Changed company name from "Panasonic i-PRO Sensing Solutions Co., Ltd." to "i-PRO Co., Ltd."
							x	-	-	Updated SNMP extended MIB: Changed the extended Object ID(OID) from Panasonic(258) to i-PRO(57501). Note: - This change applies only to the products manufactured in April, 2022* or later, and is not applied by firmware upgrade. *Serial number: VDxxxxxx - MIB file and manual are available at the following link: https://i-pro.com/global/en/surveillance/database/i-pro-device-integration/snmp-mib
							x	-	-	Changed the alarm name from "Panasonic alarm protocol notification" to "TCP alarm notification".
							x	-	-	Added the "Download" function to "Viewer software (nwc4Ssetup.exe)" in the [Basic] tab of the "Basic" page.
Ver5.02 (4.60.30) Mar 24	Ver5.02 (4.60.30) Mar 24	Ver5.02 (4.60.30) Mar 24	C			x		The image might become greenish.	Continuous operation without powering off and on for more than 4.5 years.	Fixed.