Panasonic

This document describes WV-SPN533H(LH)/SPN313H(LH)/SFV533LH/SFV313LH/SFN533H(LH)/SFN313H(LH)/SFN532H/SPW533LH/SPW313LH firmware upgrade Info.
1. Release version： Version 4.80
2. Release Note Reference Number：SPN533-023

WV-SPN533H(LH)/SPN313H(LH)/SFV533LH/SFV313LH/SFN533H(LH)/SFN313H(LH)/SFN532H/SPW533LH/SPW313LH Firmware Release Note

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VER (ActiveX Ver) Release Date	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver1.71 (4.33.06) July,'15	-				First production for WV-SPN533H and WV-SPN313H		
Ver1.85 (4.33.06) July,'15 (C)	-				Supported WV-SPN533LH/SPN313LH/SFV533LH/SFV313LH/SFN533H(LH)/SFN313H(LH)/WV-SFN532H/SPW533LH/SPW313LH		
				x	-	-	Improved downloading MP4 file that allows to select SD memory card 1 or 2. (WV-ASM200 must be version 3.40 or newer).
			x		Setting may be changed from "On(pan/tilt head)" to "Off" unexpectedly by switching turn power off and on.	After changing the "RS458 operation screen" from "Off" to "On(pan/tilt head)".	Fixed.
				x	-	-	Improved reliability, not to restart unexpectedly.
				x	Video may vary depends on the internal setting memory of intensity control.	While the settings are as follow; - IR LED light is in use - Super Dynamic is in active. - Intensity control is disabled in grey.	Fixed.
Added for correction on Oct. 14, 2015				x	For Chinese market models only		
					-	-	Added 25fps as a choice at the setting of image capture mode.
Ver1.87 (4.38.07) Aug.,'15	U			x	For Chinese market models only		
				x	-	-	Added mixing up 16:9 and 4:3 aspect ratio as a choice at the setting of image capture mode.
				x	-	-	Improved picture quality. 1. Resolution feeling. 2. Signal to Noise (S/N) Ratio.
Ver1.88 (4.38.07) Sept,'15	C			x	-	-	Added a button 简易录像功能 in the "Live" page.
				x	-	-	For Repair technicians, not for customers or users; Required this version If lens were replaced with a new type.
Ver1.89 (4.38.07) Oct,'15	C		x		Became the camera picture blackened.	By environmental changes of brightness repeated.	Fixed.
Ver1.90 (4.38.07) Nov,'15	C		x		For Chinese market models only		
					Chinese On Screen Display (OSD) may be disappeared.	-	Fixed.
Ver1.91 (4.38.07) Dec.,'15	U			x	-	-	Updated for Japanese market models only.
Ver2.00 (4.38.08) Jan.,'16	C			x	-	-	Supported the OnVIF command, StartFirmwareUpgrade, to upgrade the firmware.
				x	-	-	Added "Smart Coding mode" function.

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1. Release version： Version 4.80
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December 7, 2021
Panasonic i-PRO Sensing Solutions Co., Ltd,

WV-SPN533H(LH)/SPN313H(LH)/SFV533LH/SFV313LH/SFN533H(LH)/SFN313H(LH)/SFN532H/SPW533LH/SPW313LH Firmware Release Note

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			A	B	C	U			
Ver2.00 (4.38.08) Jan.,'16	C					x	-	-	Made encrypting the firmware. To upgrade the firmware from version 1.91 or older, required 2-step upgrading; - First step: upgrade to version 9.99. - Second step: upgrade to version 2.00. Click here to requestthe version 9.99.
						x	-	-	Supported Safari/Firefox/Google Chrome at configuration settings Note: Tested version; - Safari: Version 5.34.57 - Google Chrome: Version 44.0.2403 (Except displaying H.264 images) - Firefox: Version 39.0.0
						x	For WV-SFV531 only.		
							-	-	Added a function of Monitor output from Audio output terminal.
						x	For WV-SFN531 only.		
							-	-	Improved picture quality. 1. Resolution feeling. 2. Signal to Noise (S/N) Ratio.
						x	Wrote settings onto the Flash-ROM by clicking the "Set" button on menu setting page even if nothing changed. （Occurrence frequency : High）	-	Fixed.
						x	-	-	Changed the upper limit value of the set of iVMD function on External software. [Prev.] 100%, 150%, 200%, 250%, 300% [New] 100%, 150%, 200%, 250%, 300%, 350%, 400%, 450%, 500%, Unlimited
						x	-	-	Changed the word in Chinese at SD memory card information (SD记忆卡信息) in System log (系统日志); [Prev.] 错误内容 (Description) [New] 内容 (Description）
						x	-	-	Changed the action to the following cgi commands; - /cgi-bin/get_capability - /cgi-bin/get_capability2
						x	-	-	Corrected the vulnerability by upgrading OSS for NTP; [Prev.] ntp-4.2.6 p3 [New] ntp-4.2.8 p4
					x		Maintenance page layout may collapse. （Occurrence frequency : High）	In the page of User mng.	Fixed.
					x		Best shot of face may not be sent.	If the duration of tracking were too short.	Fixed.
Added on June 24, 2016 (4.38.08) Feb.,'16	C					x	-	-	Added a notice for each screen that alarm notification will not be appeared while displaying VMD and audio detection.

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Ver2.40 (4.38.08) Apr.,'16			C	x	-	-	1. Changed factory default setting value at User Authentication from "OFF" to "ON".
							2. Deleted pre-registered User name (admin), and Password (12345).
							3. All users must register User name(s) and Password(s) at initial access.
							  - User name: 1 to 32 characters
							  - Password; 8 to 32 characters, two or more types of characters among alphabets, numbers and symbols.
							 Note:
							Currently registered User name(s) and Password(s) will NOT be deleted by upgrading firmware, however, you have to register them under the new policy (above "3") after initializing (default reset) by the INITIAL SET button or by the setup menu.

				x	-	-	Changed Chinese words in "传送模式"; - From "帧率优先" to "恒定速". - From "恒定速率" to "细（画质优先权）".
Ver2.41 (4.38.08) Apr.,'16			C	x	For WV-SPN533H and WV-SPN313H only. It may take too long to startup. （Occurrence frequency : Low）	-	Fixed.
				x	For WV-SPN533LH, WV-SPN313LH, WV-SFN533LH, WV-SFN313LH, WV-SFN533H, WV-SFN532H, WV-SFN313H, WV-SPW533LH, WV-SPW313LH only. It may not be able to startup. （Occurrence frequency : Rare）	-	Fixed.
Ver2.50 (4.39.00) July,'16			C	x	-	-	Added choices of "Bandwidth control(bit rate)". 1024kbps/15360kbps/20480kbps/25600kbps/30720kbps/35840kbps/40960kbps/51200kbps
				x	-	-	Added choices of "On(Mid)" and "On(High)" to "Smart Coding mode".
				x	-	-	ONVIF®: Supported "WS Addressing".
				x	-	-	Added information about place of product destination and model number with suffix to the reply of CGI command "/cgi-bin/getinfo".
				x	-	-	Updated hyperlink to the web sites of support.
			x		Layout of image display may be collapsed.	By inputting "</script>" at input-field.	Fixed.

				x	-	-	Corrected the vulnerability by upgrading OSS for NTP;
							  [Prev.] ntp-4.2.6 p4
							  [New] ntp-4.2.8 p7

				x	Unable to change settings of "Transmission priority" and "Refresh interval" simultaneously by CGI command, "/cgi-bin/set_h264".	On firmware version between 2.01 and 2.43.	Fixed.

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WV-SPN533H(LH)/SPN313H(LH)/SFV533LH/SFV313LH/SFN533H(LH)/SFN313H(LH)/SFN532H/SPW533LH/SPW313LH Firmware Release Note

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	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
				x	Confirmation window would not appear even if "Bandwidth control(bit rate)" to be set less than "Max bit rate (per client)".	When attempting to set "Bandwidth control(bit rate)" to be set less than "Max bit rate (per client)" on "H.264(2)" through "H.264(4)".	Fixed.
Ver2.50 (4.39.00) July,'16	C			x	–	-	Changed responses to CGI command "/cgi-bin/get_capability"; - Added 25/50fps at "viqs.support_mode" (a parameter that image capture mode can use VIQS) - Changed text string from "min_framerate.2m_2fps" to "min_framerate.2m_25fps".
				x	Setting of "Refresh interval" left "8s" internally (should become "1s") even if settings both "Smart coding = On" and "H.264 streaming = SD" although "Smart coding" become "Off". As a result, recording in H.264 on SD memory card may be abnormal.	-	Fixed.
				x	The camera may restart, unexpectedly.	In a case, connect/disconnect H.264 streaming , repeatedly.	Fixed.
Ver2.51 (4.39.00) Oct.,'16	U			x	–	-	Added the Chinese to on-screen menu.
Ver2.52 (4.39.00) Feb.,'17	U			x	–	-	Due to factory reason (Nothing effects to users).
Ver2.54 (4.39.00) Mar.,'17	C			x	Unable to work time adjustment function synchronizing with NTP server.	When the difference between the clock and the NTP server is within 5 seconds.	Fixed.
				x	Refresh interval may be switched to ″8s″, unexpectedly.	By changing "Transmission priority" of H.264 for the options other than "VBR", initiated by PSSCT or WJ-NV300 only if it is the first time from the installation of the camera.	Fixed.
Ver2.56 (4.39.23) Sept.,'17	C			x	-	-	Changed company name to the new company name in the plug-in (ActiveX) software.
				x	-	-	Updated the URL of support website displayed on screen.
Ver2.58				x	-	-	Improved security.
				x	-	-	In CGI command of "get_io2", added new parameter "3" for "format" so that possible to obtain Command alarm / i-VMD information.

Added on June 5,2017

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(4.39.23) Mar.,'18	C			x	-	-	Added new Panasonic alarm notifications as follow; SD-MEMORY WRITE ERROR SD-MEMORY READ ERROR SD-MEMORY DELETE ERROR SD-MEMORY FILESYSTEM ERROR SD-MEMORY OTHER ERROR
Ver2.58 (4.39.23) Mar.,'18	C			x	-	-	Changed factory default setting values as follow; 传送模式: 恒定速率 带宽(每个客户端: 3072kbps 音频模式: 音频输出 输入音量: 线路 中 AGC（音频）: Middle
				x	-	-	Discarded a restriction that only "Unicast port (AUTO)" in RTSP transmission would be available when "Transmission type" is "On".
			x		Leaked POST connection.	in a case of disconnect network in "over HTTP" for 2 and half minutes or more.	Fixed.
			x		Image capture size may become incorrect.	By setting Image capture size from Image Viewer.	Fixed.
		x			Administrator password may be deleted.	-	Fixed.
Ver2.60 (4.39.23) Jun.,'18	C			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	-	-	Changed saving setting data with encryption. Note: unable to restore the setting data if you would downgrade the firmware.
				x	-	-	Made some other security measures enhanced.
				x	-	-	Added "Drawing method", "Decoding options" and "Frame Skip Options (When PC is Heavy Processing Load)" onto plug-in software.

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				x	-	-	Changed factory default setting for transmission rate: Previous: Unlimited New: 51200kbps
Ver2.60 (4.39.23) Jun.,'18	C			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.
Ver2.70 (4.39.23) Sept.,'18	C			x	Revised on Nov. 7, 2018 Frame rate and bit rate may drop.	By transmitting JPEG live images continuously over 1 year without being rebooted.	Fixed.
Ver2.71 (4.39.23) Dec.,'18	C			x	-	-	Added a function of Overlay image
				x	Unable to connect browser.	While connecting with Hikvision's recorders by ONVIF although it replies to Ping.	Fixed.
Ver4.00 (4.39.23) Feb.,'19	C			x	May not be able to change the save destination at the time of FTP periodical transmission error.	-	Fixed.
				x	ONVIF RTSP Multicast transmission may not work.	-	Fixed.
				x	-		Improved to link HTTP alarm function with "HTTP max segment size" setting in "Network setting"
				x	-		ONVIF: Supported DTT v18.06.
				x	-	-	Changed the URLs of hype-link destination according to change of support page URL (from "http" to "https").
				x	-	-	Changed factory default settings as follow; - Internet mode (over HTTP) from "On" to "Off" - Image capture mode from 30fps to 25fps, SD from "Off" to "On" - Date/time display format　from "DD/MM/YYYY"　to　"YYYY/MM/DD" - Time zone　　　from "GMT+00:00"　to　"GMT+08:00"
				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	-	-	Changed the responce of "/cgi-bin/get_io2?format=3&"; It became not to notify CGI response each time even if detecting command alarm continuously.
				x	Camera may restart when a file which cannot be deleted were created during JPEG overwrite recording on the SD memory card.	-	Fixed.

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					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	Communication error may occur while connecting with WJ-NX series recorders. (Occurrence frequency: Rare)		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.
Ver4.00 (4.39.23) Feb.,'19	C				x	Solid black screen may appear during sequencing with the network disk recorder due to it takes time to output the video.	-	Fixed.
					x	Camera may reboot, unexpectedly.	When sequencing the network disk recorder or the video management software (WV-ASM series)	Fixed.
					x		By downloading the SD memory backed up data with the network disk recorder	Fixed.
Ver4.01 (4.39.23) Mar.,'19	U				x	-	-	Became available to display OSS (Open Source Software) license at "Upgrade" firmware-tab in "Maintenance".
Ver4.10 (4.39.23) 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		-	-	Changed factory default setting of the time zone to Chinese Standard Time(CST）, UTC+8.
				x		-	-	Display the license of open source software (OSS) on upgrade screen.
					x	ONVIF communication may become a cause of destroying resources.		Fixed.
				x		-	-	Fixed Session Description Protocol/SDP (IPv6) on ONVIF.
				x		Unable to find ONVIF search.	-	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.

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Ver4.30 (4.39.24) May,'20	C				x	The camera may show a black image on the "Live" page.	-	Fixed.
					x	-	-	Changed the company name in the plug-in software Active X to the new one.
Ver4.80 (4.39.24) Dec.,'21	C				x	-	-	Enhanced security.
					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.

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