1. Release version: Version 480

2. Release Note Reference Number: SFV481-020

December 7, 2021 Panasonic i-PRO Sensing Solutions Co., Ltd.

WV-SFV481/SFN480 Firmware Release Note

VER (ActiveX Ver) Release Date		ority Leve	el		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 upo	date)	Contents	*: ONVIF is a trademark of Onvif, Inc.
		А В	С	U	Issue (Phenomenon)		Occurrence condition	Correspondence
Ver1.02 (4.31.03) Dec.,'14	-				First production			
				Х	-		-	Supported Extension Software WV-SAE200, i-VMD function TYPE3.
				х	-		-	Added a button to install additional application software in the "Upgrade" tab of the "Maintenance" page.
	_		х		Browser (Internet Explorer) does not response. (Occurrence frequency : High)		4 recording or playing back page, by e-bar and drop without moving mouse at	Fixed.
			х		Buttons may not be seen on Camera Information display. (Occurrence frequency : High)	When tu	rning power off right after started up.	Fixed.
			х		Unable to change configure settings, downloading log and so on. (Occurrence frequency : High)	1	mage FTP transmission" were "On" and currence continuously.	Fixed.
			х		Recording may not be restored after interrupting power source. (Occurrence frequency : very rare)	While re	cording SD memory card.	Fixed.
			х		ASM200 could not receive information of resolution and preset memory on cameras.	1 -	1 3	Fixed.
Ver1.11			х		ASM200 could not receive preset memory information from cameras, correctly.	while in t	esponse of cgi command "cgi-bin/getuid" the other mode than Quad-PTZ mode or TZ mode.	
(4.33.06) Feb.,'15	С			х	-		-	Supported new display options on WV-ASM200; top-bottom inversion drag-to-zoom click-to-center preset memory
			х		Neither click-to-center nor drag-to-zoom on WV-ASM200 work properly while in Single-PTZ.	By missi	ng "ch" as a parameter.	Fixed.
			х		Picture may be trouble due to transmitting a multicast double.	When au	uto-starting a multicast.	Fixed.
			х		Unable to make preset memory after POSI2. (Unable to make preset memory on WV-ASM200)	By a cgi	command, "cgi-bin/camposiset".	Fixed.
			х		Unable to download from SD memory card.	Via FTP	(File-Transfer-Protocol).	Fixed. (WV-ASM200 must be version 3.20 or newer)
			х		Focus was not optimum.	1 -	ng Power ON at low illumination while low-shutter speed.	Fixed.
			х		Unable to transmit H.264 audio from PC to camera. (Occurrence frequency : High)	By startii times.	ng/stopping audio transmission many	Fixed.
			х		Camera would not disconnect session. (Occurrence frequency : High)	comman	eiving a JPEG Snapshot by cgi ad and so on.	Fixed the camera to disconnect session.
			x		Camera picture may be corrupted. (Occurrence frequency : High)	then by	ng H.264(2)/JPEG(2) to be "320x320", changing image capture mode to be 'mode by cgi command.	Fixed.
			х		JPEG picture quality may be worse. (Occurrence frequency : Mid)	By using	the camera long term, continuously.	Fixed. SFV481-020

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		АВ	С	U	Issue (Phenomenon)		Occurrence condition	Correspondence
			x		Uninstalled iVMD after restarting.	1	e, installed the extension software i-VMD e factory default settings, then restarted era.	Fixed.
			х		1/15 fps (usually it should be 1 fps).	By chang software	ging configuration of the extension i-VMD.	Fixed.
			x		By CGI command, image capture mode could be configured other than Fisheye mode and live would not be refreshed. (Occurrence frequency: High)	Image ca Fisheye	apture mode were in 9M Fisheye or 4M mode.	Fixed.
Ver1.12 (4.33.07) Apr.,'15	С		х		Selecting a line for People count (Cross line) may not be selected after defining the line. (Occurrence frequency : High)	1	e were defined by almost horizontally.	Fixed.
			x		Unable to HTTP access. (Occurrence frequency : Mid)		moved LAN cable at PC-end while ding CSV file.	Fixed.
			х		Unable to transmit H.264(2) overHTTP. (Occurrence frequency : High)	By using	PS-API.	Fixed.
			x		CH4 out of 4 stream may be solid black picture.	When comore.	onfigured 4 streams, VBR and 12Mbps or	Fixed.
				х	-		-	Improved an issue that video of H.264(1) may be distorted at restarting or change setting capture mode.
				х	-		-	Improved an error at SD memory card to be notified.
Ver1.13 (4.33.07)	С		х		4-screen/9-screen on WJ-NV300 may not display video.	and char	node (Outdoor/Indoor) while in multicast	Fixed.
June,'15				х	-		-	Added information of capability by CGI command; - available modes supporting VIQS available range for VMD area.
			x		Chang of time zone setting may not be effected even if it would be synchronized.	When ch Time adj	nanging time zone setting after changing justment by NTP from "Off" to "On".	Fixed.
				х	-	-		Improved reliability the camera not to restart unexpectedly.
Ver1.14 (4.33.07) Sept.,'15	С		х		Startup time may be longer than usual due to restart during starting up.	-		Fixed.
Ver1.15	_		х		Occur "503-Service Unavailable" and need restart.	When ac	ccessing a camera by browser.	Fixed.
(4.33.07) Nov.,'15	С			Х	-		-	Added the log indicating a hardware (Main Board) change.

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This document describes WV-SFV481/SFN480 firmware upgrade Information.

1. Release version: Version 480

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December 7, 2021 Panasonic i-PRO Sensing Solutions Co., Ltd.

WV-SFV481/SFN480 Firmware Release Note

***	70	1/01	14.	TU	Filliwate Release Note		
VER (ActiveX Ver) Release Date	Priority Rank Level			nk	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 upo	Contents date)	*: ONVIF is a trademark of Onvif, Inc.
		A E	3 C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
					Please see the note at the bottom of this p	page.	
				х	-	-	Made encrypting the firmware. To upgrade the firmware from version 1.15 or older, required 2-step upgrading; - First step: upgrade to version 9.99. - Second step: upgrade to version 2.01. Click here to request the version 9.99.
				x	-	-	Added "Smart Coding mode" function.
	_			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	-	-	Support upgrading firmware by CGI command (StartFirmwareUpgrade).
Ver2.01 (4.38.08)	С		x		Wrote settings onto the Flash-ROM by clicking the "Set" button on menu setting page even if nothing changed. (Occurrence frequency: High)	-	Fixed.
Feb.,'16	-			х	-	-	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)
				х	-	-	Changed response to the CGI commands; "/cgi-bin/get_capability" : Added about SD card recorder. "/cgi-bin/get_capability2" : Added capture size for 4K cameras.
				х	-	-	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.
	-			х	-	Revised on Feb. 5,2016	apported the Extension software, WV-SAE200; - Improved the functions of the People count and the Heat map.
Ver2.02					Please see the note at the bottom of this p	page.	
(4.38.08) Feb.,'16	U			х	-	-	Updated for Japanese market models only.

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<For WV-SAE200 TYPE3 version 1.15 (or older) users>

DO NOT UPGRADE to this version 2.01 or newer due to the WV-SAE200 version 1.15 or (older) does NOT support this version.

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WV-SFV481/SFN480 Firmware Release Note

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		АВ	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
				x	Except Chinese market models (WV-SFV481H/WV-SFN	480H). -	Added a choice to select a certification when using HTTPS. This is effective from products manufactured in April, 2016. Those serial numbers are as follow; "PDxxxxxx", PExxxxxx, PFxxxxxx and after. "Qxxxxxxxx", Rxxxxxxx and after.
					Except Chinese market models (WV-SFV481H/WV-SFN	480H).	
Ver2.40	(x	-	-	Added a choice to select a certification when using the "Alteration detection". This is effective from products manufactured in April, 2016. Those serial numbers are as follow; "PDxxxxxxx", PExxxxxxx, PFxxxxxxx and after. "Qxxxxxxxx", Rxxxxxxx and after.
(4.38.08) Apr.,'16	С			×	-	-	 Changed factory default setting value at User Authentication from "OFF" to "ON". Deleted pre-registered User name (admin), and Password (12345). 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.
Ver2.43 (4.38.08) June,'16	С		х		Unable to connect the cameras by the HTTPS protocol.	After turning power off and on if the connection protocol were configured in "HTTPS" and using with the Root Certification Authorities (CA).	Fixed.
				х	-	-	Corrected the vulnerability by upgrading OSS for NTP; [Prev.] ntp-4.2.6 p4 [New] ntp-4.2.8 p7
				х	-	-	Added choices of "Bandwidth control(bit rate)". 1024kbps/15360kbps/20480kbps/25600kbps/30720kbps/35840kbps/40960kbp s/51200kbps
Ver2.50				х	-	-	Added choices of "On(Mid)" and "On(High)" to "Smart Coding mode".
(4.39.00) July,'16	С			х	-	-	ONVIF®: Supported "WS Addressing".
July, 10				х	-	-	Added information about place of product destination and model number with suffix to the reply of CGI command "/cgi-bin/getinfo".
				х	<u>-</u>	-	Updated hyperlink to the web sites of support.
			х		Layout of image display may be collapsed.	By inputting "" at input-field.	Fixed.
			х		Stereo audio may be played back in monaural.	-	Fixed.

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This document describes WV-SFV481/SFN480 firmware upgrade Information.

1. Release version: Version 480

2. Release Note Reference Number: SFV481-020

December 7, 2021 Panasonic i-PRO Sensing Solutions Co., Ltd.

WV-SFV481/SFN480 Firmware Release Note

VER (ActiveX Ver) Release Date		iority Leve	el		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 upo	nend to apply (Major or serious update) sue happened ance timing n /Performance improvement (Not Necessary to update)		*: ONVIF is a trademark of Onvif, Inc.
		АВ	С	U	Issue (Phenomenon)		Occurrence condition	Correspondence
					Missing ZOOM button on the live picture screen of Fisheye in JPEG.	1. Type o	tings are both as follows; of image capture mode were "Fisheye + a" or "Fisheye + Double Panorama" page (Initial display)" are in JPEG.	Fixed.
			x		Unable to transmit MotionJPEG with configured picture size at JPEG(2) by CGI command, "/cgi-bin/nphMotionJpeg".	While im	age capture mode were in "4M Fisheye".	Fixed.
Ver2.50 (4.39.00)	С		x		Unable to change settings of "Transmission priority" and "Refresh interval" simultaneously by CGI command, "/cgi-bin/set_h264".	1	are version between 2.01 and 2.43.	Fixed.
July,'16			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.
			х		The camera may restart, unexpectedly.	In a case repeated	e, connect/disconnect H.264 streaming , ly.	Fixed.
Ver2.52			x		JPEG image may be transmitted by incorrect capture size.	In a case for nphM	e, configured a same image capture size otionJpeg and SnapShotJpeg.	Fixed.
(4.39.00) Dec.,'16	С		х		The Real-time Pull-Point Notification Interface did not conform to ONVIF®.		-	Fixed.
				х	-		-	Improved security.
Vor2 52			х		Did not work data encryption during over RTSP streaming.		-	Fixed.
Ver2.53 (4.39.00) Feb.,'17	С		х		RTSP distribution may be stopped during continuous operation.	Streamin Recorder	g to WJ-NX400 (Network Disk ·).	Fixed.
			х		Changing frame rate dynamically by CGI command at the time of an alarm may not be effected on camera.	While op Recorder	erating with WJ-NX400 (Network Disk	Fixed.
Ver2.54			x		Unable to work time adjustment function synchronizing with NTP server.	1	e difference between the clock and the ver is within 5 seconds.	Fixed.
(4.39.00) May,'17 Added on N	C Jay 3	31 201	X	>	Refresh interval may be switched to "8s", unexpectedly.	the option	ging "Transmission priority" of H.264 for ns other than "VBR", initiated by PSSCT /300 only if it is the first time from the	Fixed.
			+			แารเสแสแน	on of the camera.	

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1. Release version: Version 480

2. Release Note Reference Number: SFV481-020

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WV-SFV481/SFN480 Firmware Release Note

VER (ActiveX Ver) Release Date	Pri	ority Leve	Rar el	nk	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)	date)	Contents	*: ONVIF is a trademark of Onvif, Inc.
		АВ	С	U	Issue (Phenomenon)		Occurrence condition	Correspondence
Ver2.56 (4.39.23)	U			х	-		-	Changed company name to the new company name in the plug-in (ActiveX) software.
Sept.,'17	С		X		-		-	Updated the URL of support website displayed on screen.
				х	-		-	Improved security.
				х	-		-	In CGI command of "get_io2", added new parameter "3" for "format" so that possible to obtain Command alarm / i-VMD information.
Ver2.58 (4.39.23)	С			х	-		-	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
Mar.,'18				х	-		-	Discarded a restriction that only "Unicast port (AUTO)" in RTSP transmission would be available when "Transmission type" is "On".
			x		Leaked POST connection.	1	e of disconnect network in "over HTTP" d half minutes or more.	Fixed.
			х		Image capture size may become incorrect.	By settir Viewer.	ng Image capture size from Image	Fixed.
				х	Administrator password may be deleted.		-	Fixed.
				х	-		-	Changed factory default setting for Authentication method; Previous: "Digest or Basic" New: "Digest"
								For more details: security upgrade June2018.pdf
				х	-		-	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
Ver2.60								kept unchanged even firmware and software have been updated.
(4.39.23)	С							For more details: security upgrade June2018.pdf
Jun.,'18				х	-		-	Added user authentication at host authentication.
				х	-		-	Became saving history of login failure into system log.
					Except Chinese market models (WV-SFV481H/WV-SFN	I480H).		
				х	-		-	Changed saving setting data with encryption. Note: unable to restore the setting data if you would downgrade the firmware.
				х	-		-	Made some other security measures enhanced.
				х	-		-	Added "Drawing method", "Decoding options" and "Frame Skip Options (When PC is Heavy Processing Load)" onto plug-in software.

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		АВ	ВС		J Issue (Phenomenon)	Occurrence	condition	Correspondence
Ver2.60 (4.39.23)	С			х	-	-		Changed factory default setting for transmission rate: Previous: Unlimited New: 51200kbps
Jun.,'18	J		х		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	С		х			By transmitting JPEG live over 1 year without being		Fixed.
			x		Network disk recorder may not be able to detect an alarm even if it detects an alarm with VMD setting of the stream 2 of the camera when connected to a network disk recorder.	-		Fixed.
					The streams 2 to 4 may not be detected when VMD detection area to be set from the recorder in the capture mode of "4 streams".	-		Fixed.
					Unable to set VMD that can identify cameras 2, 3 and 4 when operation detection is set from recorder in 4 stream mode.	-		Fixed.
			х		May not be able to change the save destination at the time of FTP periodical transmission error.	-		Fixed.
			х		ONVIF RTSP Multicast transmission may not work.	-		Fixed.
Ver4.00 (4.39.23)	С			х	-	-		Improved to link HTTP alarm function with "HTTP max segment size" setting in "Network setting"
Feb.,'19				х	-	-		ONVIF: Supported DTT v18.06.
					Except Chinese market models, WV-SFV481H and WV-	FN480N.		
				X	-	-		Enhanced security.
				х	-	-		Changed the URLs of hype-link destination according to change of support page URL (from "http" to "https").
						For Chinese market mode	els, WV-SFV481H and \	WV-SFN480N only.
				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"
			х		The recorded data of the log one before the relevant time might be downloaded when downloading the recorded data from the log list.	-		Fixed.

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		АВ	С	U	Issue (Phenomenon)	Occurrence condition	Correspondence		
			х		Camera may restart unexpectedly while receiving ONVIF command continuously.	-	Fixed.		
			х		Camera may restart when a file which cannot be deleted were created during JPEG overwrite recording on the SD memory card.	-	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.		
Ver4.00			x		Communication error may occur while connecting with WJ-NX series recorders. (Occurrence frequency: Rare)	-	Fixed.		
(4.39.23) Feb.,'19	С		x		Solid black screen may appear during sequencing with the network disk recorder due to it takes time to output the video.	-	Fixed.		
			x			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.		
			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.		
				х	-	-	Security has been enhanced.		
			x		Audio may not output by attempting to connect two sessions simultaneously and failure to authenticate one of them.	-	Fixed.		
				Х	-	-	Added an ONVIF command, "DeviceIO:GetVideoSources".		
Ver4.10				х	-	-	Added a note in the window of DDNS setting page when using "Dynamic DNS Update", "Dynamic DNS Update(DHCP)".		
(4.39.23)	С			х	-	-	Display the license of open source software (OSS) on upgrade screen.		
June,'19			х	1	ONVIF communication may become a cause of destroying resources.		Fixed.		
			х		-	-	Fixed Session Description Protocol/SDP (IPv6) on ONVIF.		
			х		Unable to find ONVIF search.	-	Fixed.		
				х	-	-	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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- 1. Release version: Version 480
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WV-SFV481/SFN480 Firmware Release Note

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VER (ActiveX Ver) Release Date	Pri	iority Lev		ık	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	*: ONVIF is a trademark of Onvif, Inc.
		A	з С	U	Issue (Phenomenon)	Occurrence condition	Correspondence
					Except Chinese market models, WV-SFV481H and WV-SFN	N480H.	
				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.</http>
					Except Chinese market models, WV-SFV481H and WV-SFN	N480H.	
Ver4.70				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.
(4.39.23)	U				Except Chinese market models, WV-SFV481H and WV-SFN	N480H	
Mar.,'21				x	-	Modified on Oct. 14, 2021	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. Previous versions: The camera automatically sets [Max bit rate (per client)*] to 4096kbps when the selected one is larger than 4096kbps. This version or later: The camera does not change the value in [Max bit rate (per client)*]. The following note has been added to the "Connection" field in [Setup]-> [Network] page-> [Advanced] tab-> "HTTPS" window.
Ver4.80				х	-	_	When "HTTPS" is selected for "Connection", the maximum bandwidth(bit rate) is limited to 16Mbps. Enhanced security.
(4.39.24) Dec.,'21	С		x		·	hen the setting in [Image capture size] or mage capture mode] is changed repeatedly.	Fixed.

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