

WV-SFV481/SFN480 Firmware Release Note

VER (ActiveX Ver) Release Date	Priority Rank Level				Issue (Phenomenon)	Occurrence condition	Correspondence
	A	B	C	U			
Ver1.02 (4.31.03) Dec., '14	-				First production		
Ver1.11 (4.33.06) Feb., '15	C			x	-	-	Supported Extension Software WV-SAE200, i-VMD function TYPE3.
				x	-	-	Added a button to install additional application software in the "Upgrade" tab of the "Maintenance" page.
				x	Browser (Internet Explorer) does not response. (Occurrence frequency : High)	On H.264 recording or playing back page, by drag slide-bar and drop without moving mouse at all.	Fixed.
				x	Buttons may not be seen on Camera Information display. (Occurrence frequency : High)	When turning power off right after started up.	Fixed.
				x	Unable to change configure settings, downloading log and so on. (Occurrence frequency : High)	"Alarm image FTP transmission" were "On" and alarm occurrence continuously.	Fixed.
				x	Recording may not be restored after interrupting power source. (Occurrence frequency : very rare)	While recording SD memory card.	Fixed.
				x	ASM200 could not receive information of resolution and preset memory on cameras.	By the response of the cgi command "cgi-bin/get_capability" due to missing 1600x1200 resolution.	Fixed.
				x	ASM200 could not receive preset memory information from cameras, correctly.	By the response of cgi command "cgi-bin/getuid" while in the other mode than Quad-PTZ mode or Single-PTZ mode.	Fixed.
				x	-	-	Supported new display options on WV-ASM200; top-bottom inversion drag-to-zoom click-to-center preset memory
				x	Neither click-to-center nor drag-to-zoom on WV-ASM200 work properly while in Single-PTZ.	By missing "ch" as a parameter.	Fixed.
				x	Picture may be trouble due to transmitting a multicast double.	When auto-starting a multicast.	Fixed.
				x	Unable to make preset memory after POSI2. (Unable to make preset memory on WV-ASM200)	By a cgi command, "cgi-bin/camposiset".	Fixed.
				x	Unable to download from SD memory card.	Via FTP (File-Transfer-Protocol).	Fixed. (WV-ASM200 must be version 3.20 or newer)
				x	Focus was not optimum.	By turning Power ON at low illumination while setting slow-shutter speed.	Fixed.
				x	Unable to transmit H.264 audio from PC to camera. (Occurrence frequency : High)	By starting/stopping audio transmission many times.	Fixed.
		x	Camera would not disconnect session. (Occurrence frequency : High)	After receiving a JPEG Snapshot by cgi command and so on.	Fixed the camera to disconnect session.		
		x	Camera picture may be corrupted. (Occurrence frequency : High)	By setting H.264(2)/JPEG(2) to be "320x320", then by changing image capture mode to be "Double" mode by cgi command.	Fixed.		
		x	JPEG picture quality may be worse. (Occurrence frequency : Mid)	By using the camera long term, continuously.	Fixed.		

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Ver1.12 (4.33.07) Apr.,'15	C			x	Uninstalled iVMD after restarting.	In a case, installed the extension software i-VMD under the factory default settings, then restarted the camera.	Fixed.
				x	Refresh interval of MOR (moving Object Remover) was 1/15 fps (usually it should be 1 fps).	By changing configuration of the extension software 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 capture mode were in 9M Fisheye or 4M Fisheye mode.	Fixed.
				x	Selecting a line for People count (Cross line) may not be selected after defining the line. (Occurrence frequency : High)	If the line were defined by almost horizontally.	Fixed.
				x	Unable to HTTP access. (Occurrence frequency : Mid)	Once removed LAN cable at PC-end while downloading CSV file.	Fixed.
				x	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 configured 4 streams, VBR and 12Mbps or more.	Fixed.
Ver1.13 (4.33.07) June,'15	C			x	-	-	Improved an issue that video of H.264(1) may be distorted at restarting or change setting capture mode.
				x	-	-	Improved an error at SD memory card to be notified.
				x	4-screen/9-screen on WJ-NV300 may not display video.	By registering WV-SFV481 and/or WV-SFN480 and change settings from WJ-NV300 that Light control mode (Outdoor/Indoor) while in multicast on camera.	Fixed.
				x	-	-	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 changing time zone setting after changing Time adjustment by NTP from "Off" to "On".	Fixed.
		x	-	-	Improved reliability the camera not to restart unexpectedly.		
Ver1.14 (4.33.07) Sept.,'15	C			x	Startup time may be longer than usual due to restart during starting up.	-	Fixed.
Ver1.15 (4.33.07) Nov.,'15	C			x	Occur "503-Service Unavailable" and need restart.	When accessing a camera by browser.	Fixed.
				x	-	-	Added the log indicating a hardware (Main Board) change.

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	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.			
Ver2.01 (4.38.08) Feb., '16	C				Please see the note at the bottom of this page.			
					x	-	-	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.
					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).
				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 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 response to the CGI commands; "/cgi-bin/get_capability" : Added about SD card recorder. "/cgi-bin/get_capability2" : Added capture size for 4K cameras.
					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	-	Revised on Feb. 5, 2016	Supported the Extension software, WV-SAE200; - Improved the functions of the People count and the Heat map.		
Ver2.02 (4.38.08) Feb., '16	U	Please see the note at the bottom of this page.						
					x	-	-	Updated for Japanese market models only.

<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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					Issue (Phenomenon) Occurrence condition Correspondence	
Ver2.40 (4.38.08) Apr.,'16	C			x	Except Chinese market models (WV-SFV481H/WV-SFN480H). - - 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. "Qxxxxxxx", Rxxxxxxx and after.	
				x	Except Chinese market models (WV-SFV481H/WV-SFN480H). - - 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; "PDxxxxxx", PExxxxxx, PFxxxxxx and after. "Qxxxxxxx", Rxxxxxxx and after.	
				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.	
Ver2.43 (4.38.08) June,'16	C		x	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.	
Ver2.50 (4.39.00) July,'16	C			x	-	Corrected the vulnerability by upgrading OSS for NTP; [Prev.] ntp-4.2.6 p4 [New] ntp-4.2.8 p7
				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.
		x		Stereo audio may be played back in monaural.	-	Fixed.

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Ver2.50 (4.39.00) July,'16	C			x	Missing ZOOM button on the live picture screen of Fisheye in JPEG.	If the settings are both as follows; 1. Type of image capture mode were "Fisheye + Panorama" or "Fisheye + Double Panorama" 2. "Live" 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 image capture mode were in "4M Fisheye".	Fixed.
				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.
				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.
Ver2.52 (4.39.00) Dec.,'16	C			x	JPEG image may be transmitted by incorrect capture size.	In a case, configured a same image capture size for nphMotionJpeg and SnapShotJpeg.	Fixed.
				x	The Real-time Pull-Point Notification Interface did not conform to ONVIF®.	-	Fixed.
				x	-	-	Improved security.
Ver2.53 (4.39.00) Feb.,'17	C			x	Did not work data encryption during over RTSP streaming.	-	Fixed.
				x	RTSP distribution may be stopped during continuous operation.	Streaming to WJ-NX400 (Network Disk Recorder).	Fixed.
				x	Changing frame rate dynamically by CGI command at the time of an alarm may not be effected on camera.	While operating with WJ-NX400 (Network Disk Recorder).	Fixed.
Ver2.54 (4.39.00) May,'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.
Added on May 31,2017							
Ver2.56 (4.39.23) Sept.,'17	U			x	-	-	Changed company name to the new company name in the plug-in (ActiveX) software.
	C			x	-	-	Updated the URL of support website displayed on screen.

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Ver2.58 (4.39.23) Mar., '18	C				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.	
					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	
					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	-	Became saving history of login failure into system log.	
					x	Except Chinese market models (WV-SFV481H/WV-SFN480H).		
					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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Ver2.60 (4.39.23) Jun., '18	C			x	-	-	Changed factory default setting for transmission rate: Previous: Unlimited New: 51200kbps	
				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-Agent headers.	-	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.	
Ver4.00 (4.39.23) Feb., '19	C			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.	
				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	Except Chinese market models, WV-SFV481H and WV-SFN480N.	-	Enhanced security.
					x	-	-	Changed the URLs of hype-link destination according to change of support page URL (from "http" to "https").
					x	-	For Chinese market models, WV-SFV481H and WV-SFN480N only.	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.		

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Ver4.00 (4.39.23) Feb., '19	C			x		Camera may restart unexpectedly while receiving ONVIF command continuously.	-	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		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		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.
				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.

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