Hi-PRO

This document describes WV-SFV781L/SPV781L firmware upgrade Information. 1. Release version: Version 4.80 2. Release Note Reference Number:SFV781-019R

VER (ActiveX Ver) Release Date	Pr	iori Le	ty F eve		k	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 upd	ate)	Contents	
		Α	в	С	U	Issue (Phenomenon)		Occurrence condition	
Ver1.05 (4.37.03) June,'15	-					First production			_
				x		White line may be seen.	When the	e black-and-white image state.	Fixed.
				x		Unable to adjust zooming ratio 4.3x by slide-bar of Zoom ratio designation at Zoom/focus adjustment		-	Fixed.
					х	-		-	Improved by reducing the 8-Mega transmission until the start.
				x		In CGI command, capability information responded incorrect parameter about "drag_zoom" and "default_zoom". (Occurrence frequency : High)		-	Fixed.
					x	-		-	Added information of capability by - available modes supporting VIQ - available range for VMD area.
Ver1.06					x	-		-	Improved on CGI command, it wo cropping [16:9] (30fps) mode, eve was responded an error).
(4.37.04) Aug.,'15	С			x		Chang of time zone setting may not be effected even if it would be synchronized.		nanging time zone setting after changing justment by NTP from "Off" to "On".	Fixed.
				x		May not display camera image in 4-screen or 9-screen on WJ- NV300.	- Registe - Set carr - Change	e conditions as follow; ring WV-SFV481/WV-SFN480. nera to be multicast. d the setting of "Upside-down" from "On " to "Wall" by WJ-NV300.	Fixed.
				x		Camera would be rarely restarted while streaming due to an encode error. (Occurrence frequency : Low)	When the	e load of the camera is high.	Fixed.
				x		Transmitting 1.5fps even if the frame rate of H.264 were set 1fps.	- 8-Mega - 12-Mega - 5-Mega - 4-Mega H.264(4)	, setting one of the following; pixel [16:9](15fps mode) : H.264(2) apixel [4:3](15fps mode) : H.264(1) pixel [4:3](30fps mode) : H.264(1), H.264(2) pixel [16:9](30fps mode) : H.264(1), H.264(2) g [16:9](30fps mode): H.264(1), H.264(2)	Fixed.
Ver1.07 (4.37.04) Sept.,'15	С			x		It may restarts while starting up (as a result, it takes longer).		-	Fixed.
Ver2.01 (4.38.08) Feb.,'16	С				x	-		_	Made encrypting the firmware. To upgrade the firmware from ve - First step: upgrade to version 9. - Second step: upgrade to version
-,					х	-		-	Added "Smart Coding mode" fund

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/legapixel[16:9](30	Ofps mode) of H.264(1) time of
ty by CGI comma VIQS. ea.	nd;
-	nd respond to keep_alive, while n unnecessary ch information. (It
n 0 00	older, required 2-step upgrading;
	where to request the version 9.99.
function.	

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		AB	C C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
				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 On version 2.00, restrictions using Safari/Firefox/Google Chrome are as follow; - Google Chrome: Unable to playback H.264. - Unable to set Privacy zone. - Unable to set Privacy zone. - Unable to set iVMD detection area. - Unable to set audio detection. - Unable to set Cropping area for cropping. - Unable to display the frame of face detection when using face detection.
Added Ver2.01	on N	ov. 6, 2	2019	\land	-		- Unable to set iVMD area nor depth (when using WV-SAE200) Appears a pop-up message " <i>The browser is not compatible with Viewer</i> <i>software. Use Internet Explorer for further settings.</i> " when attempting to do the above.
(4.38.08) Feb.,'16	С			x	- Wrote settings onto the Flash-ROM by clicking the "Set"	-	Support upgrading firmware by CGI command (StartFirmwareUpgrade).
			X		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□□卡信息) in System log (系□日志); [Prev.]□□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.
Ver2.02 (4.38.08) Mar.,'16	U			x	-	-	Added a notice for each screen that alarm notification will not be appeared while displaying VMD and audio detection.
Ver2.04 (4.38.08) Mar.,'16	с		x			While the image capture mode is set either "4 mega pixel [16:9](30fps mode)" or "Cropping [16:9](30fps)".	Fixed.
Ver2.40 (4.38.08) Apr.,'16	С			x	Except Chinese market models (WV-SFV781LH/WV-SP	/781LH). 	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", Rxxxxxx and after.

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		AB	B C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver2.40 (4.38.08) Apr.,'16	С			x	-	-	 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		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.
				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
				х	-	-	Added choices of "On(Mid)" and "On(High)" to "Smart Coding mode".
				х	-	-	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".
				х	-	-	Updated hyperlink to the web sites of support.
			x		Layout of image display may be collapsed.	By inputting "" at input-field.	Fixed.
Ver2.50 (4.39.00)	С		x		Stereo audio may be played back in monaural.	-	Fixed.
July,'16	0		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.

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		AI	зС	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver2.52 (4.39.00)	С		x		The Real-time Pull-Point Notification Interface did not conform to ONVIF®.	-	Fixed.
Dec.,'16				х	-	-	Improved security.
			x		Did not work data encryption during over RTSP streaming.	-	Fixed.
Ver2.53 (4.39.00) Feb.,'17	С		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		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.			
(4.39.00) May,'17	С		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	
Added on N	∕lay 3	1,20	17	\geq		installation of the camera.	
Ver2.56 (4.39.23)	С			x	-	-	Changed company name to the new company name in the plug-in (ActiveX) software.
Sept.,'17			х		-	-	Updated the URL of support website displayed on screen.
				х	-	-	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.
Ver2.58 (4.39.23)	С			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
Mar.,'18				x	-	-	Discarded a restriction that only "Unicast port (AUTO)" in RTSP transmission would be available when "Transmission type" is "On".
			x		I eaked 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	r. Fixed.
				х	Administrator password may be deleted.	-	Fixed.

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		Α	В	С	U	Issue (Phenomenon)		Occurrence condition		
					x	-		-	Changed factory default setting Previous: "Digest or Basic" New: "Digest"	
									For more details:	
					x	-		-	Changed password policy that i among "upper case letters / low details, click here. Note: Original passwords and authent kept unchanged even firmware	
									For more details:	
Vor2 60					x	-		-	Added user authentication at ho	
Ver2.60 (4.39.23)	С				x	-		-	Became saving history of login	
Jun.,'18						Except Chinese market models (WV-SFV781LH/WV-SP\	/781LH).			
					х	-		-	Changed saving setting data wi Note: unable to restore the setti	
					х	-		-	Made some other security meas	
					x	-		-	Added "Drawing method", "Dec PC is Heavy Processing Load)"	
					x	-		-	Changed factory default setting 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-Agentheaders.		-	Fixed.	
Ver2.70 (4.39.23) Sept.,'18	С			x		Revised on Nov. 7, 2018 Frame rate and bit rate may drop.	-	mitting JPEG live images continuously ear without being rebooted.	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.	
Ver4.00 (4.39.23) Feb.,'19	С				x	-			Improved to link HTTP alarm fu "Network setting"	
, ••					x	-			ONVIF: Supported DTT v18.06.	
						Except Chinese market models, WV-SFV781LH and WV-	-SPV781l	.H.	_!	
					х	-		-	Enhanced security.	

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ng for Authentication method;

security_upgrade_June2018.pdf

t it must include at least 3 types of characters ower case letters / numbers / symbols". For more

entication method of products on the system are re and software have been updated.

security_upgrade_June2018.pdf

host authentication.

in failure into system log.

with encryption.

tting data if you would downgrade the firmware.

easures enhanced.

ecoding options" and "Frame Skip Options (When d)" onto plug-in software.

ng for "Bandwidth control(bit rate)"

function with "HTTP max segment size" setting in

)6.

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		Α	в	С	U	Issue (Phenomenon)		Occurrence condition	
					x	-			Improved to link HTTP alarm fu "Network setting"
				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	-		-	Changed the URLs of hype-link URL (from "http" to "https").
						For Chinese market models, WV-SFV781LH and WV-SPN	781LH o	only.	
Ver4.00 (4.39.23) Feb.,'19	с			x		-		_	Changed factory default settings - Internet mode (over HTTP) fro - Image capture mode from 30f - Date/time display format fro - Time zone from "GMT+0
				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		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.

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unction with "HTTP max segment size" setting in
< destination according to change of support page
gs as follow;
om "On" to "Off" fps to 25fps, SD from "Off" to "On"
om "DD/MM/YYYY" to "YYYY/MM/DD"
00:00" to "GMT+08:00"

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		Α	в	С	U	Issue (Phenomenon)		Occurrence condition	
				x		Camera may reboot, unexpectedly.		equencing the network disk recorder or or management software (WV-ASM	Fixed.
Ver4.00 (4.39.23) Feb.,'19	с			x				loading the SD memory backed up data network disk recorder	Fixed.
160., 19				x		-		-	Changed encryption method of [Important Information] It is not possible to restore the s (or later) to the camera that ope
					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, "D
					x	-		-	Added a note in the window of I Update", "Dynamic DNS Update
Ver4.10					х	-		-	Display the license of open sour
(4.39.23) June,'19	С			x		ONVIF communication may become a cause of destroying resources.			Fixed.
				x		-		-	Fixed Session Description Proto
				х		Unable to find ONVIF search.		-	Fixed.
					x	-		-	The file may not be found by op SD memory card and attempt to
					х	-		-	Improved responses to ONVIF
				x		PTZ may not stop even if it received stop command in ONVIF.		-	Fixed.
				x		The camera may show a black image on the "Live" page.		-	Fixed.
Ver4.30						Except Chinese market models, WV-SFV781LH and WV-	-SPV781L	.H.	1
(4.39.24) May,'20	С				х			-	Improved the response when re 10.
					х	-		-	Changed the company name in

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of setting data along with strengthening security.

e setting data backed up with firmware version 4.00 perates in version earlier than Ver 4.00.

"DeviceIO:GetVideoSources".

f DDNS setting page when using "Dynamic DNS ate(DHCP)".

ource software (OSS) on upgrade screen.

otocol/SDP (IPv6) on ONVIF.

opening the log list during overwrite recording of the to browse.

F commands for PTZ cameras.

reconnecting in HTTPS connection on Windows

in the plug-in software Active X to the new one.

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		Α	в	0	U	Issue (Phenomenon)	Occurrence condition	Correspondence		
						Except Chinese market models, WV-SFV781LH and WV-SPV7	781LH.	Improved the [HTTP alarm notification] function as follows:		
					x	_	_	 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.</http> 3. Supports HTTPS Communication Entering "https://" in [Address] enables HTTPS communication. 		
					x	Except Chinese market models, WV-SFV781LH and WV-SPV7	781LH.			
	U					_	-	Enabled both digital certificates "Digicert" and "GlobalSign". Note: Firmware upgrade does not change the certificate in a camera.		
Ver4.70								Click here for further information in case of SSL communication.		
(4.39.24) Mar.,'21	U					Except Chinese market models, WV-SFV781LH and WV-SPV7	781LH.			
							Modified on Oct. 14, 2021	Changed the behavior related to bit rate when the communication protocol is changed from "HTTP" to "HTTPS" as below.		
							Modified Off Oct. 14, 2021	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	-	-	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. When "HTTPS" is selected for "Connection", the maximum bandwidth(bit rate) is limited to 16Mbps. 		
Ver4.80					x	-	-	Enhanced security.		
(4.39.24) June,'21	С		2	x			en the setting in [Image capture size] or age capture mode] is changed repeatedly.	Fixed.		