1. Release version: Version 4.10

2. Release Note Reference Number: SFx311/SFx310-025

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WV-SFV311 WV-SFV310 WV-SFR311 WV-SFR310	VER (ActiveX Ver) Release Date WV-SPN311	WV-SPW631L WV-SPW631LT WV-SPW611L WV-SPW531LH	Pr	rior	ity F	Ran		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		Contents	PW531LH/SPW311LH FIRMWare Release Note
WV-SFN311(L) WV-SFN310		WV-SPW311LH	1	Α	В	С	U	Issue (Phenomenon)		Occurrence condition	Correspondence
Ver1.42 (4.26.00) May,'14			,				I	First production Corrected Ver1.42 ar on August 21, 2014.	nd 1.43		
							Х	_		_	Supported WV-SAE100.
							Х	-		-	Supported WV-SAE200.
Ver1.43 (4.26.01) July,'14			С			Х	6	Alarm would not be notified even if i-VMD setting were enabled. (Occurrence frequency: High)	In a case, image cap	the i-VMD was activated after changing oture mode to be [4:3].	Fixed.
						Х		Camera may reboot, unexpectedly. (Occurrence frequency : Rare)	When ove	er writing SD memory card.	Fixed.
	Adde	d on Dec.16,	201	4		1		Supported WV-SPN311 and WV-SPN310. Added of	n Jan.27,	2015 Supported WV-SPW631	IL, WV-SPW631LT, WV-SPW611L and WV-SPW531LH
	7.000						х	-		-	Except H models Added a function of SD memory card password lock. IMPORTANT INFORMATION Please remember the password with great care. The SD memory card with the configured password will become UNUSABLE IF IT WOULD BE FORGOTTEN.
							x	-		-	Added a setting to alteration detection. Note The bit rate for recording onto SD memory card, will be limited (approx. a half of usual) by activating the alteration detection.
Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	C				x	-		-	Added playing back audio recorded on SD memory card by browser. To playback audio, the setting of "Audio recording" must be "On" Note The bit rate for recording onto SD memory card, will be limited (approx. a half of usual) by activating this function.
Oct.,'14	Oct.,'14	Oct.,'14					x	-		-	Added "VBR" as a choice of Transmission priority in JPEG/H.264. Note The stream of VBR in H.264 at Transmission priority cannot be selected image compression for recording onto SD memory card.
							х	-		-	In Chinese and Japanese languages only, changed words in H.264 settings; Previous: 最大比特率(突发时) 最大ビットレート(バースト時) New: 最大比特率(高级可変比特率时) 最大ビットレート(アドバンスド可変ビットレート時)
							х	-		-	In Chinese and Japanese languages only, changed words in H.264 settings; Previous: 控制时间(可变比特率时) 制御期間(可変ビットレート時) New: 控制期间(高级可变比特率时) 制御期間(アドバンスド可変ビットレート時)
							х	-		-	Added "High Light Compensation (HLC)" function.
							x	-		-	Added displaying the "Log" in live and "Permission level of viewing logs" settings.
							х	-		-	Added FTP transmitting Pre alarm picture.

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WV-SFV310 WV-SFR311 WV-SFR310 WV-SFN311(L)	WV-SPN311 WV-SPN310	WV-SPW631LT WV-SPW611L WV-SPW531LH		L	eve	el		C: Maintenance timing U: Function /Performance improvement (Not Necessary t	o update)					
WV-SFN310		WV-SPW311LH		Α	В	С	U	Issue (Phenomenon)		Occurrence condition	Correspondence			
							х	-		-	Added hyper-link to the "Support Information on network camera (WV Series)" in the page of firmware upgrade.			
							х	-		-	Added Audio Output Duration setting so that various durations of audio transmission (such as 1/2/3/5/10/20/30/60min) can be set (instead of 5-min fixed).			
							х	-		-	Added "Alarm deactivation time" setting so that various deactivation time (such as 5s/10s/30s/1min/3min/5min/10min) can be set (instead of 5-sec fixed).			
							х	-		-	Updated the list of time zone setting.			
							х	-		-	Improved displaying live picture even if the setting of the Compatibility View on Internet Explorer11 were "Off".			
							х	-		-	Added hyper-link to the "Support Information on network camera (WV Series)" on the title-bar in the page of live picture.			
Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	C				x	-		-	Supported the cgi commands as follows; - /ImageViewer to add corresponding picture that display video clips only. - /Set,Get?Func=ImageTransfer to set alarm notifications and to receive setting values - /Get?Func=Pan,Tilt to receive available Pan/Tilt ranges - /Set?Func=Network to receive settings of network - /Set,Get?Func=Upnp to set Upnp and to receive setting values - /Set?Func=Network to add dns parameter			
Oct.,'14	Oct.,'14	Oct.,'14					х	-		-	Supported ONVIF Profile G.			
							х	-		-	Supported live streaming for H.264(3), H.264(4). *: Supported only H.264(1), H.264(2), previously.			
							х	-		-	Supported AAC audio on ONVIF.			
										x	-		-	While manual recording was set at the Save trigger of SD memory card, added an alert that showed record to be interrupt by changing the settings one of the tabs as follows; - SD memory card tab - JPEG/H.264 - Audio - Network - Additional info for detecting alteration (Except Chinese market models) - SD memory card password lock / Remove / Change
						x		Video streaming may not be transmitted. (Occurrence frequency : Rare)	In a case single ar	e switching screens among quad, 16 nd live, repeatedly.	Fixed.			
						х		Time on System log was incorrect. (Occurrence frequency : High)	In a case "GMT+0	e time zone setting was other than 9:00".	Fixed to show correct local time.			
						х		Returned 403 Forbidden when attempting to set Diffserv. (Occurrence frequency : High)	In a case	e the input field of DSCP to be blank.	Improved to show "Entered information is incorrect. Enter again.", instead			
						х		"500 Internal Server Error" may appear. (Occurrence frequency : Low)	By chan	ging Time adjustment at NTP.	Fixed.			

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	VER (ActiveX Ver) Release Date		_		_		Priority Rank Level		Contents	
WV-SFV311 WV-SFV310 WV-SFR311 WV-SFR310 WV-SFN311(L)	WV-SPN311 WV-SPN310	WV-SPW631L WV-SPW631LT WV-SPW611L WV-SPW531LH		iorit Le	y R vel		A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to	o update)		
WV-SFN310		WV-SPW311LH		ΑΙ	В	CL	Issue (Phenomenon)		Occurrence condition	Correspondence
					,	x	Showed an incomplete balloon help by mouse over the combo box at Host check. (Occurrence frequency: High)	In a case	e the host name was long.	Fixed.
					,	x	Time stamp was shifting 1 second between the one in log list and display on playback screen. (Occurrence frequency : Mid)	Recorde	d in H.264 onto SD memory card.	Fixed.
						х	Bandwidth of transmission may be unstable. (Occurrence frequency : Low)	In a case effort".	e Transmission priority were in "Best	Fixed.
						x	The time stamp of SD memory card recoding was shifting 2 hours between on-screen display and log. (Occurrence frequency: High)	In a case were ON	e daylight-saving time (summer time)	Fixed.
					,	x	Bottom half of the adjustment monitor may not display, properly. (Occurrence frequency: High)	1	ng the video signal from the ent monitor output terminal.	Fixed.
					,	x	Log for SD memory card recording may contain that an event showed tow or more. (Occurrence frequency : Low)		-	Fixed.
Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	C			x	Remaining capacity (Total) for SD memory card may not correct . (Occurrence frequency : High)	card 1 arremainin	e, the total capacities of SD memory and 2 were different and the ag capacities of SD memory card 1 ere different.	Fixed to display properly.
Oct.,'14	Oct.,'14	Oct.,'14	С			x	Layout would corrupt by adjusting volume while in mute.	It dependent	ds on Operating System (OS) and/or Explorer (IE)	Fixed.
					,	х	"500 Internal Server Error" may appear by sending a command of keep-a-live at multicast streaming with audio.		node" is set in "Mic input" and send mand without stream parameters.	Fixed.
						x 📗	Layout at Host authentication screen corrupted.	In a case	e, the host name was long.	Fixed.
					7	х	Error may be displayed if the Set button at i-VMD configuration were clicked repeatedly.		-	Fixed.
					<u> </u> ;	x	Hunting may appear at high illumination like spot-lighting. (Occurrence frequency : Low)	In black	and white mode.	Fixed.
					,	х	Slow shutter may not work properly. (Occurrence frequency : Low)	By chan	ging ELC(Maximum exposure time).	Fixed.
						×	-		-	Changed Windows focus policy that the pointer will not move to the Zoom button on the Extra optical zoom window. (This is to avoid error by clicking and holding the Enter.)
						x	In schedule for i-VMD or Scene file, the schedule 2 did not work if the end time of the schedule 1 and start time of schedule 2 were same. Example Schedule 1: 12:00 - 12:05 Scene file1 Schedule 2: 12:05 - 12:10 Scene file1 (Occurrence frequency: High)		-	Fixed.

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WV-SFN310		WV-SPW311LH		ΑΙ	в	υ	Issue (Phenomenon)	Occurrence condition	Correspondence
						x	BWLEVEL (image adjustment) and ORGUSE (On/Off at Panasonic alarm protocol notification) did not show properly. (Occurrence frequency: High) Displayed incorrect time display format "0:xx PM" in	At a cgi command; /cgi-bin/setdata, /cgi-bin/getdata	Fixed.
					:	x	camera picture window that is shown from noon to 12:59 pm. (Occurrence frequency : High)	-	Fixed.
					,	×	In Extra optical zoom operation, zoom moved to "x1.0" once then zooming again as a result of clicking Zoom (+) button repeatedly and click "x1" button. (Occurrence frequency: Mid)	-	Fixed.
					;	x	Setting of FTP periodic image transmission may not be effective even if the Set button were clicked. (Occurrence frequency: Low)	-	Fixed.
						×	Operability was not good at moving slide-bar by mouse on playback in H.264 recording.	It depends on the combination of Internet Explorer and the compatible view setting.	Fixed.
						x	Unable to select other than "H.264 stream" for monitoring live. (Occurrence frequency : High)	In a case setting, transmission for "H.264 stream 1" to be "Off".	Fixed.
Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	С			x	Playing back H.264 may be stopped and return to live. (Occurrence frequency: Low)	In a case operations like 5s forward, 5s backward, switching log, etc.	Fixed.
Oct.,'14	Oct.,'14	Oct.,'14			,	x	Indicating the area of Face detection at cropping stream. (Occurrence frequency : High)	In a case, Face detection is "On" and alarm action at cropping is "On".	Fixed not to indicate the area.
						×	Appeared script error.	Transmission type is Multicast (IPv4) and Internet mode is "On" and accessing the camera by IPv6, then clicking Confirm butto for H.264 (1) stream in VIQS window.	n Fixed.
						x	The camera may reboot unexpectedly by changing Internet mode from "Off" to "On". (Occurrence frequency: Rare)	By changing H.264 stream settings while displaying live and/or playback.	Fixed.
					:	×	Existing privacy zone was misaligned, slightly. (Occurrence frequency : High)	In a case, the stream was 1080p, 60fps and EX zoom.	Fixed.
						x	Time stamp may be different between log and actual recording. (Occurrence frequency : Rare)	Restarted the camera after turning power O and On while recording onto SD memory card in H.264.	ff Fixed.
						×	Pop-up a dialog window for alert of changing "Recording mode", showed blank.	In all languages except Japanese.	Fixed.
						x	The pages for smartphone were shown by accessing "http://(IP address)/cam".	Compatible view setting were "Off" on Internet Explorer 11.	Fixed to show the live picture.
						x	Live image may be displayed solid black picture. (Occurrence frequency : Rare)	-	Fixed.

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WV-SFN310		WV-SPW311LH		Α	в	C	U	Issue (Phenomenon)		Occurrence condition	Correspondence
						x		Script error might occur. (Occurrence frequency : Rare)	By down memory	lloading H.264 recordings from SD card.	Fixed.
						х		The camera may restart, unexpectedly. (Occurrence frequency : Rare)	By input	ting alarm with high frequency.	Fixed.
						x		Unable to download latest 50,000 events instead of oldest 50,000 events. (Occurrence frequency : High)	In a case events.	e, the log contains more than 50,000	Fixed.
						x		Shooting outdoor at night may be a cause of hunting.	It depen	ds on the "Image quality setting".	Fixed.
						х		Took a time to start displaying second (and followings) H.264 stream.		-	Fixed by inserting I-Frame at start transmitting the second (and followings) H.264 stream.
						х		Unable to change settings. (Occurrence frequency : High)	DHCP (f	e, attempting Network settings to be from factory default) and UPnP (Autovarding) to be "On".	Fixed.
						x		Using with WJ-ND400, JPEG images at 1fps were not backed up into SD memory card even if it configured so. (Occurrence frequency: Low)		-	Fixed.
Ver1.55 (4.27.01) Oct.,'14	Ver1.55 (4.27.01) Oct.,'14	Ver1.55 (4.27.01) Oct.,'14	С				х	-		-	For Chinese market models only Changed not to show Model number on screens of live picture and configuration such as follows; - On Live picture and configuration Changed the factory default of camera title to be blank Changed the title of Camera 1 in multi-screen to be blank Removed Model no. in Upgrade windows.
						х		Value of Category was incorrect. (Occurrence frequency : High)	Obtained	d by SNMP	Fixed.
						х		Did not work Light control and VMD, properly. (Occurrence frequency: High)	1	e, adjusting horizontal and vertical s by Extra optical zoom function.	Fixed.
						х		Displaying zoom ratio of EX Zoom may be incorrect. (Occurrence frequency : Low)		starting camera.	Fixed.
						x		Appeared horizontal noises in camera picture.	degrees	up at outside temp. between -45 C to 50-degrees C, then put it up vering below -45 degrees C.	Fixed.
							х	-		-	Improved displaying camera pictures quicker when connecting with ASM200, ASM970 and so on.
						x		Unable to establish new "over RTSP" connection.	H.264 se	picture on "over RTSP" connection.	Fixed.
						х		Recording a data in 2 separated files, unexpectedly.	Connect in H.264	ing with ND400 and SD memory rec. is activated.	Fixed.
						х		Decreased picture quality, unexpectedly.	1	I-picture due to opening new to display H.264, repeatedly.	Fixed.

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WV-SFN310		WV-SPW311LH	Ш	A E	3 C	U			Occurrence condition	Correspondence
					×	(Unable to send the best face shot (JPEG) for PC Software Package (Face detecting server).	In a case "Low".	e, sensitivity for face detection is	Fixed.
						x	-		-	Changed indication order of OnVIF Profile when obtaining them; Previous: Ascending order of resolution in JPEG New: Descending order of resolution in H.264
						х	-		-	Changed responses from camera so that available to use external tools for customizing OSD (On-Screen Display).
Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	Ver1.55 (4.27.01)	c			х	-		-	Improved switching level from color to black/white under backlight environment while Super Dynamic(SD) is ON.
Oct.,'14	Oct.,'14	Oct.,'14				х	-		-	Improved face can be seen brighter under backlight environment while Super Dynamic(SD) is ON.
						х	-		-	Improved the impression of resolution at low brightness part under bright environment.
						х	-		-	Improved the other impression of resolution than above.
						х	-		-	Enabled face detection at applying the license of face-best-shot.
						х	-		-	Changed the drive letter of SD memory card drive.
	Corrected o Jan.27, 2015					х	Streaming may be stopped or unable to re-start streaming. (Occurrence frequency : Mid)		/ disconnect streaming repeatedly nsmitting stream over RTSP.	Fixed.
	75	_				x	Reduced number of connectable users temporally. (Occurrence frequency : High)	error (su	TSP SETUP method returned an ch as incorrect URL, authentication ceeding number of access and so	Fixed.
Ver1.57 (4.27.01)	Ver1.58 (4.27.01)	Ver1.58	c			х	Unable to establish RTSP connection. (Occurrence frequency : Mid)		g 2 or more TCP SYN packets eously at RTSP port.	Fixed.
Dec.,'14	Dec.,'14	(4.27.01) Dec.,'14	-			х	Unable to transmit video stream. (Occurrence frequency : Low)	as record	repeatedly.	Fixed.
						x	Camera may restart, unexpectedly. (Occurrence frequency : High)	more clie	5 minutes after disconnecting 3 or ents (having network cable removed, le transmitting video stream over	Fixed.
Ver1.58 (4.27.01) Dec.,'14	Ver1.58 (4.27.01) Dec.,'14		-				Due to factory reason.			
Ver1.59 (4.27.01) Jan.,'15	Ver1.59 (4.27.01) Jan.,'15	Ver1.59 (4.27.01) Jan.,'15	U			х	-		-	Improved connectivity with WV-ASM200.

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WV-SFN310		WV-SPW311LH	Α	\ E	3 C	U	<u>ا</u>	Issue (Phenomenon)	Occurrence condition	Correspondence
						x	(-	-	Except WV-SFV310 and WV-SFR310 Added "AGC(Audio)" settings.
						x	<	-	-	Expanded "OSD" display settings; - Added positions of "Upper center" and "Lower center" Position of the time and date and character strings, separately Added choices of character size among "100%", "150%" and "200%".
						x		-	-	For H models only Added displaying bit rate on H.264 live screen
						x	C	-	-	For H models only Changed factory default settings; - Settings relating H.264; Internet mode (over HTTP): from "Off" to "On". Transmission priority: from "Frame rate" to "VBR". Max bit rate (per client) *: from "4096kbps" to "14336kbps". *: in H.264(1) only - Settings relating image adjust; Super Dynamic (SD): from "On(Normal" to "Off".
Ver1.71	Ver1.71	Ver1.71				x	(-	-	Added "Contrast enhancement(RGB: 0 to 256)" function for H.264 live picture.
(4.33.06) Feb.,'15	(4.33.06) Feb.,'15	(4.33.06) Feb.,'15	С				x	(-	-
					x			-	-	Improved the plug-in software; - Not to accumulate delays at drawing. It might delay up to 30 seconds depends on load of CPU, previously. Changed the strategy that discarding frames before delay were bigger Not to corrupt images at scrolling Note: Increased size of the plug-in software; From approx. 2MB to approx. 3.8MB
						x	<	-	-	For H models only Removed waiting 2 seconds to start drawing H.264 live picture while "Internet mode (over HTTP)"="On" and "Smooth live video display"="On".
						x	(-	-	Changed iVMD information to be overwritten onto JPEG Expansion Area when capturing 1shot of JPEG.
						x	(-	-	Changed iVMD information to be overwritten onto JPEG Expansion Area while recording onto SD memory card; - NDR backup (ND200, ND300, ND400K) - Failure at FTP periodic transmission

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WV-SFN310		WV-SPW311LH	1	A E	3 0	ו	J	Issue (Phenomenon)	Occurrence condition	Correspondence	
			╽┟)	х	-	-	Added alarm status onto Additional Information into H.264/JPEG.	
)	x	-	-	Added "Display type" function (mosaic display) for "Privacy zone".	
)	x	-	-	Supported additional information as follows; - Status of SD memory card recording Audio	
						,	x	-	-	Improved accuracy of detecting iVMD.	
)	x	-	-	Improved H.264 image quality while VBR were set at Transmission priority.	
)	х	-	-	Reviewed and updated the Time Zone values.	
						,	x	-	-	Changed the Levels of H.264 from "4.0" to; - 2048x1536: 5.0 - 1920x1080 (60fps): 4.2 - 1280x720(60fps): 4.1	
)	х	-	-	Added a function to accept collecting iVMD detection area, "/cgi-bin/getdata".
Ver1.71	Ver1.71	Ver1.71				+	+		,	х	-
(4.33.06) Feb.,'15	(4.33.06) Feb.,'15	(4.33.06) Feb.,'15	С		>	(Inable to display camera streams in OnVIF. (Occurrence frequency : Mid)	In a case, restarting the camera.	Fixed.	
					>	(Jnable to display H.264 images. (Occurrence frequency: High)	In a case, Encoded H.264 by CAVLC and QuickTime player were version 7.7.4.	Fixed.	
							E	except WV-SFV310, WV-SFR310, WV-SFN310 and WV-S			
					>	(е	Playing audio from the PC on the unit speaker may be an	While load of the camera were high and firmware version depends on the model as follows; - 3 series models: Version 1.55 and newer - 5 series models: Version 1.60 and newer - 6 series models: Version 1.53 and newer	Fixed.	
					>	(Camera did not respond. (Occurrence frequency : High)	When changing configuration in JPEG and H.264 to be a certain combination.	Fixed.	
					>	(Hang-up Internet Explorer. (Occurrence frequency : High)	On H.264 viewer, by dragging the slide-bar and dropping without moving the slide-bar at all.	Fixed.	
					>	(N a	Unable to stream H.264 with RTSP command. Note: resume streaming H.264 by changing port number again or restarting camera. (Occurrence frequency: High)	After changing port number of RTSP while streaming H.264 with RTSP command.	Fixed.	

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WV-SFN310		WV-SPW311LH	P	\ E	вС	<u>ا (</u>	U	Issue (Phenomenon)	Occurrence condition	Correspondence
						2	x	-	-	Added usage information and error information display for SD memory card. Notes: The information will be updated once per hour. Model number stored on the SD memory card will be displayed.
						,	x	-	-	Added warning outputs about SD memory card to Alarm output terminal.
						,	x	-	-	Added "Auto time adjustment" by activating "Alarm input terminal 1". Examples; - Triggered at between 00:00:01 and 00:28:59: Adjust to 00:00:00 Triggered at between 00:29:00 and 00:30:59: No adjustment Triggered at between 00:31:00 and 00:59:59: Adjust to 01:00:00.
Ver1.80	Ver1.80	Ver1.80)	х	-	-	Added "AAC-LC(HIGH QUALITY)" (sampling freq.=48kHz) setting at Audio encoding format.
(4.33.06) Mar.,'15	(4.33.06) Mar.,'15	(4.33.06) Mar.,'15	С			,	х	-	-	Became saving FTP trans. error log onto RAM, and added a cgi command to obtain the log in CSV file format.
						,	х	-	-	Reserved "%almsrc2%" for HTTP alarm notification to distinguish why HTTP alarm notification occurred by i-VMD.
						,	х	-	-	Additional information to be embedded onto the extended area of JPEG for alarm and manual recordings on SD memory card.
						,	x	-	-	Additional information to be embedded onto the extended area of MP4 files recorded on SD memory card.
							x	-	-	Expanded cgi commands about searching SD memory card as follows; /cgi-bin/get_mp4_list (Added) /cgi-bin/get_mp4_file (Added) /cgi-bin/get_recording_summary (Expanded to Stream2) /cgi-bin/get_media_attributes (Expanded to Stream2) /cgi-bin/find_recording_seqs (Expanded to Stream2) /cgi-bin/get_recording_seqs (Expanded to Stream2)

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WV-SFV311 WV-SFV310	VER (ActiveX Ver) Release Date WV-SPN311 WV-SPN310	WV-SPW631L WV-SPW631LT WV-SPW611L WV-SPW531LH	Pri	orit Le	y R evel	an	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		Contents	W VVSSTEINOT VVSTTEITTIIIIWAIC IXCICASC IVOIC
WV-SFN310		WV-SPW311LH		ΑI	В		U	Issue (Phenomenon)		Occurrence condition	Correspondence
							x	Added on Dec. 21, 2015 Unable to display H.264 images of does not support QuickTime Player policy about NPAPI plugins. For more details, please refer to the https://support.google.com/chrost-	er since S ne followi	ng page;	Supported Safari, Firefox and Google Chrome to display H.264 and JPEG; Notes: 1. Tested each browser as follows; Safari:v5.1.7 Google Chrome:v38.0.2125 Firefox:v32.0.3 2. Required installing plug-in software for QuickTime Player to display H.264. 3. Limitations are as follows; <about h.264=""> - Unicast only Delay approx. 3 seconds due to buffering by Quick Time Player. <audio> - Supporting audio in H.264 only (not in JPEG) Encoding format: G.711/AAC-LC/AAC-LC(HIGH QUALITY) - One way audio output (Camera to PC) only. <full display="" screen=""> New window to be opened. But it does not display the image if it exceeds the number of access allowed.</full></audio></about>
., , , , ,							х	-		-	Improved display on Internet Explorer while Compatible view = "OFF".
Ver1.80 (4.33.06) Mar.,'15	Ver1.80 (4.33.06) Mar.,'15	Ver1.80 (4.33.06) Mar.,'15	С				х	-		-	Added a hyper-link to extension software screen on Upgrade the firmware of Operating Instructions Maintenance of the camera.
man, ro							х	-		-	Improved picture quality from the beginning of streaming transmission while in advanced variable bitrate.
							х	-		-	Improved process of a best shot face image selection on WV-ASF900.
							x	-		-	Improved the cgi command "/cgi-bin/get_capability" as follow; Added minimum frame rate (fps) by each resolution in device information.
							х	-		-	Added a cgi command "/cgi-bin/get_capability2", extended the device information received against "/cgi-bin/get_capability".
)	×		The icon of live alarm looked i-VMD. Occurrence frequency: High)	Has Insta	alled iVMD (WV-SAE200) and when alarm detection type were "VMD".	Fixed.
					,	x	";	No error even if specifying ProfileG and being sent by Set/AddScopes" command. Occurrence frequency: High)		-	Fixed.
)	x	re a	Overwrite" to be "OFF" unexpectedly at settings of ecording by sending "Overwrite = ON" for JPEG with activating OnVIF command (CreateRecordingJob). Occurrence frequency: High)		-	Fixed.

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WV-SFV311 WV-SFV310	VER (ActiveX Ver) Release Date WV-SPN311 WV-SPN310	WV-SPW631L WV-SPW631LT WV-SPW611L WV-SPW531LH	Pr	iorit Le	y R vel	ank	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		Contents	T VV331LII/OI VV311LIII IIII Wale Release Note
WV-SFN310		WV-SPW311LH		ΑΙ	в	C U	Issue (Phenomenon)		Occurrence condition	Correspondence
						х	Distorted date and time display on live image. (Occurrence frequency : Low)		-	Fixed.
					;	x	Displayed false error, The specified unicast port2(Audio) is already in use. Please change the port number. (Occurrence frequency: High)		he setting of "Audio detection" after AAC-LC" as audio encoding format.	Fixed.
							For 720p models [WV-SFV311, WV-SF310, WV-SFR311,	WV-SFR31	10, WV-SFN311(L), WV-SFN310, WV-S	PN311, WV-SPN310, WV-SPW611, WV-SPW611L and WV-SPW311LH] only.
						x	The image capture size drop-down list for JPEG(3) may be blanked. (Occurrence frequency: High)	JPEG(* JPEG(* JPEG(* [Operation Select	capture size: 1.3Mpixel [4:3], 30fps 1): 160x120 pixels 2): QVGA 3): VGA	Fixed.
Ver1.80	Ver1.80	Ver1.80				x	Concerning with the cgi command /cgi-bin/set_h264?nr_h264_resolution=xxxx VIQS area would not be resized even if sending it. As a result of this issue, streaming may be defocused (like low resolution). (Occurrence frequency: High)		-	Fixed.
(4.33.06) Mar.,'15	(4.33.06) Mar.,'15	(4.33.06) Mar.,'15	C			x	Result of self-diagnostic may be a false error. (Occurrence frequency : High)		-	Fixed.
						х	Unable to open "System log"-tab in "Maintenance" page for several minutes. (Occurrence frequency : High)	been forr	serting a SD memory card that has matted by another model numbered and its write protect switch is set to	Fixed.
			-		;	x	Unable to transmit H.264 in RTSP. (Occurrence frequency : High)	control, a disconne	and transmitting H.264 with RTSP after repeatedly connecting / ecting session total 77 times.	Fixed.
						x	For SFV311/SFV310、SFN311/SFN310、SFR311/SFR310		and an MEV (annual of	T
						^	Sending an internal log as UDP packet. (Occurrence frequency : High)	Or, manu	mber: NFVxxxxxx ufactured in June, 2013.	Fixed.
						x	Time may restore January 1, 1970, unexpectedly and back to correct date/time after 2 hours. (Occurrence frequency: Very low)	1	9	Fixed.
						x	iVMD setting to be enabled unexpectedly. (Occurrence frequency : High)	1 '	ling the extension software, , and activated.	Fixed.
						х	Paused recording onto SD memory card and restart automatically. (Occurrence frequency: High)	1 -	ng OnVIF streaming request to the f recording onto SD memory card.	Fixed.

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	VER (ActiveX Ver) Release Date				_			Priority Rank Level		Contents	
WV-SFV311 WV-SFV310 WV-SFR311 WV-SFR310 WV-SFN311(L)	WV-SPN311 WV-SPN310	WV-SPW631L WV-SPW631LT WV-SPW611L WV-SPW531LH	_	Le	vel	I		A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to	o update)		
WV-SFN310		WV-SPW311LH		A I	в	С	U	Issue (Phenomenon)		Occurrence condition	Correspondence
Ver1.82 (4.33.06) Apr.,'15	Ver1.82 (4.33.06) Apr.,'15	Ver1.82 (4.33.06) Apr.,'15	С			x		Camera continued to reboot after restoring settings data. (Occurrence frequency: High) For WV-SFV311/SFR311/SFN311/SFV310/SFR310/	camera f	it to the camera version 1.80.	Fixed.
	-					х		Enabled preset buttons of PTZ control on BB-HNP17 when registering onto BB-HNP17.	,	-	Fixed.
	-						х	-		-	Added a cgi command to retrieve setting values from SD memory card.
							х	-			Added a function to download H.264 recording files, configured maximum 20MB, onto SD memory card. (WV-ASM200 must be upgraded version 3.30 or newer.)
Ver1.83 (4.33.06)	Ver1.83 (4.33.06)	Ver1.83 (4.33.06)	С				x	-		-	Added a function to recover stopping video transmission by restarting camera.
Apr.,'15	Apr.,'15	Apr.,'15				x		HTTP access may not be accepted.	1 1	disconnect LAN cable at PC side wnloading CSV file.	Fixed.
							х	-			Improved the accuracy of VMD (Video Motion Detection). Note: This might affect the number of detections if you had adjusted its sensitivity.
Ver1.84 (4.33.06) May,'15	Ver1.84 (4.33.06) May,'15	Ver1.84				х		It may not return from the problem with the SD memory card.	When "A	rgosView" is used to backup JPEG.	Fixed to response an error at the time of SD memory card abnormal.
		(4.33.06) May,'15						For WV-SPW631L/SPW631LT/SPW611(L) only			
-	-	may, 10				х		Downloading MP4 files from WV-ASM200 may fail.	In the ca SD mem	se, data of the file exists across the ory card 1 and 2.	Fixed.
							х	-			Improved downloading MP4 file that allows to select SD memory card 1 or 2. (WV-ASM200 must be version 3.40 or newer).
Ver1.85 (4.33.06)	Ver1.85 (4.33.06)	Ver1.85 (4.33.06)	c_			x		"Off" unexpectedly by switching turn power off and	After cha from "Of	anging the "RS458 operation screen" f" to "On(pan/tilt head)".	Fixed.
July,'15	July,'15	July,'15	$\lceil \ \rceil$				х	-		-	Improved reliability, not to restart unexpectedly.
						х		Vide may vary depends on the internal setting memory of intensity control.	- IR LED - Super [e settings are as follow; light is in use Dynamic is in active. y control is disabled in grey.	Fixed.
					T			For Chinese market models (WV-SFN311H/WV-SFN	1310H/WV	/-SFN311LH/WV-SPN311H/WV-SPN	W531LH/WV-SPW311LH) only
Ver1.86 (4.38.07)	Ver1.86 (4.38.07)	Ver1.86 (4.38.07)	c	_	+		X	For Chinese market models (WV-SFN311H/WV-SFN	 310H/W\		Added a button 简易录像功能 in the "Live" page. W531LH/WV-SPW311LH) only
July,'15	July,'15	July,'15				х		The setting of time zone may not reflected correctly by synchronizing with NTP server.	changing	e, changed Time zone setting after g "Time adjustment" from "manual" hronization with NTP server".	Fixed.

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WV-SFV311 WV-SFV310	VER (ActiveX Ver) Release Date WV-SPN311 WV-SPN310	ActiveX Ver) elease Date WV-SPW631LT WV-SPW631LT WV-SPW611L WV-SPW531LH				Rai		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	Contents	T WOOTEN OF WOTTEN THINWARD RETEASE NOTE
WV-SFN310		WV-SPW311LH	Ш	A	В	С	U	Issue (Phenomenon)	Occurrence condition	Correspondence
							х	-	-	Supported Additional Business Intelligence Kit, Model WJ-NVF30.
						х		On backup function related with WJ-ND400, 1 second JPEG picture(s) on SD memory card may be missing.	At the timing when the recording was switched.	Fixed.
Ver1.87	Ver1.87	Ver1.87					x	-	-	Improved picture quality. 1. Resolution feeling. 2. Signal to Noise (S/N) Ratio. 3. H.264 image quality by changing transmission priority control from "frame rate" to "image quality".
(4.38.07) Aug.,'15	(4.38.07) Aug.,'15	(4.38.07) Aug.,'15	С			х		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.
								For WV-SFV311/SFR311/SFN311/SFN311L/SPN311		
						Х		Unable to restore backed-up settings data.	Made backup data after auto-focusing under black/white.	Fixed.
						х		Ignored OnVIF (ProfileG) command "Rate-Control:no".	While playing back in RTSP from SD memory card.	Fixed.
						х		picture may occur hunting. (Occurrence frequency : Rear)	-	Fixed.
Ver1.88	Ver1.88	Ver1.88						For WV-SFN311H/SFN311LH/SFN310H/SPN311H/S	PW531LH/SPW311LH only	
(4.38.07) Nov.,'15	(4.38.07) Nov.,'15	(4.38.07) Nov.,'15	С			Х	II I	Chinese On Screen Display (OSD) may be disappeared.	-	Fixed.
							х	-	-	Supported the OnVIF command, StartFirmwareUpgrade, to upgrade the firmware.
							х	-	-	Added "Smart Coding mode" function.
							х	-		Made encrypting the firmware. To upgrade the firmware from version 1.88 or older, required 2-step upgrading; - First step: upgrade to version 9.99 Second step: upgrade to version 2.00. Click here to request the version 9.99.
Ver2.00 (4.38.08) Jan.,'16	Ver2.00 (4.38.08) Jan.,'16	Ver2.00 (4.38.08) Jan.,'16	С				х	-		- Second step: upgrade to version 2.00. 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
					7			For Chinese market models (WV-SFN311H/WV-SFN	311LH/WV-SFN310H/WV-SPN311H/WV-SPV	V531LH/WV-SPW311LH) only.
							Х	-		Added 25fps as a choice at the setting of image capture mode.
								For Chinese market models (WV-SFN311H/WV-SFN	311LH/WV-SFN310H/WV-SPN311H/WV-SPV	V531LH/WV-SPW311LH) only.
							х	-	_	Added mixing up 16:9 and 4:3 aspect ratio as a choice at the setting of image capture mode.

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WV-SFV311 WV-SFV310 WV-SFR311 WV-SFR310	WV-SPW631L WV-SPW631LT WV-SPW631LT WV-SPW611L		Pri		Rar		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		Contents	
WV-SFN311(L) WV-SFN310		WV-SPW531LH WV-SPW311LH	Г	ΔΙΒ	С	u	Issue (Phenomenon)		Occurrence condition	Correspondence
W V - OI 14310							For WV-SFV311 only.			Соптобронавно
	-	-				x	- -		-	Added a function of Monitor output from Audio output terminal.
					x		Wrote settings onto the Flash-ROM by clicking the "Set" button on menu setting page even if nothing changed. (Occurrence frequency: High)		-	Fixed.
Ver2.00						х			-	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
(4.38.08) Jan.,'16	Ver2.00 (4.38.08) Jan.,'16	Ver2.00 (4.38.08) Jan.,'16	С			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 the action to the following cgi commands; - /cgi-bin/get_capability - /cgi-bin/get_capability2
						х	-		-	Corrected the vulnerability by upgrading OSS for NTP; [Prev.] ntp-4.2.6 p3 [New] ntp-4.2.8 p4
					х		Maintenance page layout may collapse. (Occurrence frequency : High)	In the pa	age of User mng.	Fixed.
Ver2.02 (4.38.08) Mar.,'16	Ver2.02 (4.38.08) Mar.,'16	Ver2.02 (4.38.08) Mar.,'16	U			x	1		-	Added a notice for each screen that alarm notification will not be appeared while displaying VMD and audio detection.
Ver2.03							For WV-SFN311H and WV-SFN311L only.			
(4.38.08) Mar.,'16	-	-	С		x		SD MOUNT indicator (SD MOUNT) does not light even if a SD memory card were mounted. (Occurrence frequency: High)	On firmw	vare version 2.00 and version 2.02.	Fixed.
							Except Chinese market models (WV-SFN311H/WV-S	FN311LH	H/WV-SFN310H/WV-SPN311H/WV-S	SPW531LH/WV-SPW311LH).
Ver2.40	Ver2.40	Ver2.40				х	-		-	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; "PDxxxxxxx", PExxxxxxx, PFxxxxxxx and after. "Qxxxxxxxx", Rxxxxxxxx and after.
(4.38.08)	(4.38.08)	` ,	С			<u> </u>	Except Chinese market models (WV-SFN311H/WV-S	FN311LH	H/WV-SFN310H/WV-SPN311H/WV-S	SPW531LH/WV-SPW311LH).
Apr.,'16	Apr.,'16	Apr.,'16				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.

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WV-SFN310		WV-SPW311LH		Α	В	С	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver2.40 (4.38.08) Apr.,'16	Ver2.40 (4.38.08) Apr.,'16	Ver2.40 (4.38.08) Apr.,'16	С				x	-	<u>-</u>	 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.
							F	For Chinese market models (WV-SFN311H/WV-SFN	311LH/WV-SFN310H/WV-SPN311H/WV-SP	W531LH/WV-SPW311LH). only.
							х	-	-	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)".
		_				x	E	Best shot of face may not be sent.	If the duration of tracking were too short.	Fixed.
Ver2.41 (4.38.08) Apr.,'16	Ver2.41 (4.38.08) Apr.,'16	Ver2.41 (4.38.08) Apr.,'16	Add C	ed c		x	П	2016 It may take too long to startup. (Occurrence frequency : Low)	-	Fixed.
							E	Except WV-SPW531LH and WV-SPW311LH.		
-	-	Ver2.43 (4.38.08) May,'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.
Ver2.43 (4.38.08) May,'16	Ver2.43 (4.38.08) May,'16	Way, 10				х	ι	Unable to restore the backup file of configuration.	Saved on firmware version on 1.71 or older to firmware version 2.00 or newer.	Fixed.
							х	-	-	Added choices of "Bandwidth control(bit rate)". 1024kbps/15360kbps/20480kbps/25600kbps/30720kbps/35840kbps/40 960kbps/51200kbps
							х	-	-	Added choices of "On(Mid)" and "On(High)" to "Smart Coding mode".
	.,	,, , ,			\top	\dashv	E	Except SPW631L, SPW631LT and SPW531LH.		
Ver2.50 (4.39.00) July,'16	Ver2.50 (4.39.00) July,'16	Ver2.50 (4.39.00) July,'16	С				x	- -	-	Added choice of "2M pixel[16:9(30fps mode)] at "Image Capture mode". Note: while choosing this, unable to choose "1280 x 720"
							х	-	-	OnVIF: Supported "WS Addressing".
							х	-	-	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.
	<u> </u>		ш							The state of the s

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	FR310 WV-SPN311 WV-SPW631LT WV-SPW631LT WV-SPW611LT WV-SPW611L			ority Lev		anl	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 update)			
WV-SFN311(L) WV-SFN310		WV-SPW311LH		A B C U			U	Issue (Phenomenon)		Occurrence condition	Correspondence
					х		L	Layout of image display may be collapsed.	By input	ting "" at input-field.	Fixed.
							х	-		-	Corrected the vulnerability by upgrading OSS for NTP; [Prev.] ntp-4.2.6 p4 [New] ntp-4.2.8 p7
					х	(a	Unable to change settings of "Transmission priority" and "Refresh interval" simultaneously by CGI command, "/cgi-bin/set_h264".		vare version between 2.01 and 2.43.	Fixed.
					x	("B	Confirmation window would not appear even if 'Bandwidth control(bit rate)" to be set less than "Max bit rate (per client)".	"H.264(4)".		Fixed.
Ver2.50	Ver2.50	Ver2.50					F	For Chinese market models (WV-SFV631LH/WV-SF	V611LH/\	WV-SFN631LH/WV-SFN611LH/WV-	SPN631H/WV-SPN611H) only.
(4.39.00) July,'16	(4.39.00) July,'16	(4.39.00) July,'16	С				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	١	-	The camera may restart, unexpectedly.	1	e, connect/disconnect H.264 g, repeatedly.	Fixed.
Ver2.52	Ver2.52	Ver2.52			x		(Replied to the "SetVideoSourceMode" command (ONVIF).		-	Fixed.
(4.39.00) Dec.,'16	(4.39.00) Dec.,'16	(4.39.00) Dec.,'16	С		x		- 1	The Real-time Pull-Point Notification Interface did not conform to ONVIF.		-	Fixed.
							х	<u> </u>		<u> </u>	Improved security.
	Added	On May 15,20 Ver2 54			x		5	Unable to work time adjustment function synchronizing with NTP server.		e difference between the clock and server is within 5 seconds.	Fixed.
Ver2.54 (4.39.00)	(4.39.00)	(4.39.00)	C		х	(Streaming in RTSP for the network disk recorder, Model WJ-NX400, may stop.		of operating continuously.	Fixed.
Mar.,'17	, , , , , , , , , , , , , , , , , , , ,			\neq	x	(Refresh interval may be switched to "8s", unexpectedly.	for the o	ging "Transmission priority" of H.264 ptions other than "VBR", initiated by or WJ-NV300 only if it is the first in the installation of the camera.	Fixed.

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WV-SFV311 WV-SFV310 WV-SFR311 WV-SFR310 WV-SFN311(L)	V-SFV310 V-SFR311 V-SFR310 V-SFN311(L) WV-SPN310 WV-SPW631LT WV-SPW631LT WV-SPW631LT WV-SPW631LT WV-SPW631LT				ty R	Ran I	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		Contents	
WV-SFN310		WV-SPW311LH		Α	в	C	U	Issue (Phenomenon)		Occurrence condition	Correspondence
Ver2.56 (4.39.23)	Ver2.56 (4.39.23)	Ver2.56 (4.39.23)	U				х	-		-	Changed company name to the new company name in the plug-in (ActiveX) software.
Sept.,'17	Sept.,'17	Sept.,'17					х	-		-	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.
								Except WV-SFN310(H) and WV-SPN310.			
Ver2.58 (4.39.23) Mar.,'18	Ver2.58 (4.39.23) Mar.,'18	Ver2.58 (4.39.23) Mar.,'18	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
	, main, ro	ŕ					х	-		-	Discarded a restriction that only "Unicast port (AUTO)" in RTSP transmission would be available when "Transmission type" is "On".
						x	I	Leaked POST connection.	1	e of disconnect network in "over or 2 and half minutes or more.	Fixed.
						х		Image capture size may become incorrect.	By settin Viewer.	g Image capture size from Image	Fixed.
							x	Administrator password may be deleted.		-	Fixed.
							х	-		-	Changed factory default setting for Authentication method; Previous: "Digest or Basic" New: "Digest"
Ver2.60 (4.39.23) Jun.,'18	Ver2.60 (4.39.23) Jun.,'18	Ver2.60 (4.39.23) Jun.,'18	С				x	-		-	For more details: security upgrade June2018.pdf Changed password policy that it must include at leaset 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 undated For more details: security upgrade June2018.pdf
							х	-		-	Added user authentication at host authentication.
				\top		\parallel		Except Chinese market models (WV-SFN311H/WV-S	SFN311LH	H/WV-SFN310H/WV-SPN311H/WV-	SPN531H/WV-SPW311LH).
							×	-		-	Became saving history of login failure into system log.
							х	-		-	Changed saving setting data with encryption. Note: unable to restore the setting data if you would downgrade the firmware.

1. Release version: Version 4.10

2. Release Note Reference Number: SFx311/SFx310-025

June 7, 2019 Panasonic Corporation

WV-SFV311 WV-SFV310	VER (ActiveX Ver) Release Date	WV-SPW631L		riori	ty F eve		nk	Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened		Contents	
WV-SFR311 WV-SFR310 WV-SFN311(L)	WV-SPN311 WV-SPN310	WV-SPW631LT WV-SPW611L WV-SPW531LH		L	eve	; 1		C: Maintenance timing U: Function /Performance improvement (Not Necessary to			
WV-SFN310		WV-SPW311LH	_	Α	В	С	U	Issue (Phenomenon)		Occurrence condition	Correspondence
							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.
Ver2.60 (4.39.23) Jun.,'18	Ver2.60 (4.39.23) Jun.,'18	Ver2.60 (4.39.23) Jun.,'18	С				х	- II A		-	Changed factory default setting for transmission rate: Previous: Unlimited New: 51200kbps
						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	Ver2.70	Ver2.70						Revised on Nov. 7, 2018	1 -	mitting JPEG live images	
(4.39.23) Sept.,'18	(4.39.23) Sept.,'18	(4.39.23) Sept.,'18	C			Х		Frame rate and bit rate may drop.	rebooted	usly over 1 year without being I.	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.
							х	-			Improved to link HTTP alarm function with "HTTP max segment size" setting in "Network setting"
							х	-			ONVIF: Supported DTT v18.06.
								Except Chinese market models.			•
							X	-		-	Enhanced security.
							х	-		-	Changed the URLs of hype-link destination according to change of support page URL (from "http" to "https").
Ver4.00	Ver4.00	Ver4.00						For Chinese market models only.			
(4.39.23) Feb.,'19	(4.39.23) Feb.,'19	(4.39.23) Feb.,'19				х		-		-	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"
								Except WV-SFN310 and WV-SFN310H.			
						х	1	The recorded data of the log one before the relevant time might be downloaded when downloading the recorded data from the log list.		-	Fixed.
						х		Camera may restart unexpectedly while receiving ONVIF command continuously.		-	Fixed.
							х	-			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.

1. Release version: Version 4.10

2. Release Note Reference Number: SFx311/SFx310-025

June 7, 2019 Panasonic Corporation

WV-SFV311 WV-SFV310 WV-SFR311 WV-SFR310 WV-SFN311(L)	VER (ActiveX Ver) Release Date WV-SPN311 WV-SPN310	WV-SPW631L WV-SPW631LT WV-SPW611L WV-SPW531LH	Pı	riorit Le	y R vel	anl	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		Contents	TV001 W011EITTIIIWare Release Note
WV-SFN310		WV-SPW311LH	1	Α	В	CIL		Issue (Phenomenon)		Occurrence condition	Correspondence
					,	×	c c	Except WV-SFN310 and WV-SFN310H. Camera may restart when a file which cannot be deleted were created during JPEG overwrite recording on the SD memory card. Except WV-SFN310 and WV-SFN310H.		-	Fixed.
						x	V c	When deleting SD card data on the log list screen, data that can not be deleted may be left while displaying the play window. Communication error may occur while connecting with WJ-NX series recorders.		-	Fixed.
Ver4.00	Ver4.00	Ver4.00			+	_	((Occurrence frequency: Rare)	16.4		
(4.39.23) Feb.,'19	(4.39.23) Feb.,'19	(4.39.23) Feb.,'19	С		,	x	s	, , , , , , , , , , , , , , , , , , , ,	the netwo	were changed within 2 minutes after ork had been disconnected with SP connection.	Fixed.
					,	x	v	Solid black screen may appear during sequencing with the network disk recorder due to it takes time to butput the video.		-	Fixed.
					,	x	C	Camera may reboot, unexpectedly.		equencing the network disk recorder deo management software (WV-ies)	Fixed.
							Е	Except WV-SFN310 and WV-SFN310H.			
					,	x	C			loading the SD memory backed up the network disk recorder	Fixed.
)	x	-		-	Security has been enhanced.
					,	x	s	Audio may not output by attempting to connect two sessions simultaneously and failure to authenticate one of them.		-	Fixed.
						>	x	-		-	Added an ONVIF command, "DeviceIO:GetVideoSources".
Van4.40	Van4 40	Va.:4.40)	х	-		-	Added a note in the window of DDNS setting page when using "Dynamic DNS Update", "Dynamic DNS Update(DHCP)".
Ver4.10 (4.39.23)	Ver4.10 (4.39.23)	Ver4.10 (4.39.23)	C				F	For Chinese market models only			
June,'19	June,'19	June,'19)	х	-		-	Changed factory default setting of the time zone to Chinese Standard Time(CST), UTC+8.
)	х	-		-	Display the license of open source software (OSS) on upgrade screen.
					,	x	- 1	ONVIF communication may become a cause of destroying resources.			Fixed.
					,	х		-		-	Fixed Session Description Protocol/SDP (IPv6) on ONVIF.
					,	x	ι	Unable to find ONVIF search.		-	Fixed.

Panasonic

This document describes WV-SFx311(L)/SFx310/SPN31x/SPW631L(T)/SPW631LH firmware upgrade Information.

1. Release version: Version 4.10

2. Release Note Reference Number: SFx311/SFx310-025

June 7, 2019 Panasonic Corporation

	WV-SPN311 WV-SPN310	WV-SPW631LT		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 re)		
WV-SFN310		WV-SPW311LF		ΑΙ	в С	U	Issue (Phenomenon)		Occurrence condition	Correspondence	
Ver4.10 (4.39.23) June,'19	Ver4.10 (4.39.23) June, '19	Ver4.10 (4.39.23) June,'19	С			x	-		_	The file may not be found by opening the log list during overwrite recording of the SD memory card and attempt to browse.	