

WJ-NX400 Firmware Release Note

VER (ActiveX Ver) Release Date	Priority Rank Level					Contents	
	A	B	C	U			
Ver1.02 (6.0.11.0) Apr., '17	-					First production.	
Ver1.10 (6.0.16.0) August, '17	C				x	-	Changed company name to the new company name.
					x	-	Eliminated the limit of maximum number of pre-recording channels. As a result, maximum number of pre-recording channels are changed; - Without camera extension unit (64 channel mode): from 32-ch to 64-ch - Without camera extension unit (128 channel mode): from 64-ch to 128-ch
					x	-	Added a screen to calculate how many seconds pre-recording can be done with the current settings.
					x	-	In the RAID 5/6 operation, the upper limit number of total number of cameras (A), recording (B), sub stream recording (C) was eliminated; Previous: (A) + (B) + (C) must be 176 or less. New: No limit
					x	-	Improved switching the frame rate at multi-screen display according to ON / OFF of sub-stream setting.
					x	-	Improved to display only I frame (including long term P) for live of more than 4 screens and for data encryption ON camera. Otherwise, display all received frames.
					x	-	Improved FTP download to be available even if the administrator name were 4 or less letters.
					x	-	Changed the parameters of upside-down to be sent to the following cameras of WV-SC387, WV-SW397, WV-X6511 and WV-X6531.
					x	-	Reset may occur in communication with WJ-PU104/WJ-PU108/WJ-PU116.
					x	-	Supported WV-S6111 and WV-S6131.
				x	-	Changed possible to run multiple NX Viewer.	
				x	-	Added on Feb.21,2018	
				x	It may restart, unexpectedly.	When WV-ASM 200 Timeline function is ON, the PC firewall is valid and the exceptional settings of Windows Firewall (described in the WV-ASM200 Operation Manual) are NOT configured.	
Ver2.00 (6.0.21.0) Jan., '18	C				x	-	Supported V-series H.265 cameras, WV-V1170, WV-V1330, WV-V2530 and WV-V6430. Cameras must be firmware version 2.62 (or later).
					x	-	Added "HDD stand-by control mode". Available to set a mode not to count the operation time of a hard disk drive (HDD stand-by control mode) by temporarily pausing HDDs other than those which are recording or waiting for recording.
					x	-	Supported hardware RAID1 of plural volumes; Up to 4-mirroring [4x(2xHDD)] per unit [Maximum: 1 (on WJ-NX400) + 5 (on External unit) = 6 x 4-pair = 24-pair]

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	A	B	C	U		Issue (Phenomenon)	Occurrence condition	Correspondence
Ver2.00 (6.0.21.0) Jan., '18	C				x	-	-	Supported Camera group recording function; It operates according to the camera group recording setting set in the slave recorder.
					x	-	-	Supported Failover function; When you register the license of the failover function, the stand-by recorder substitutes for the recorder in operation (master recorder) and continues recording if the master recorder has an error.
					x	-	-	Supported NAS backup function; The recording data (files of n3r/n3a and mp4) can be backed up in the NAS drive.
					x	-	-	Supported function as follow; Playing back files on MP4, AAC, network microphone (will be recorded as the audio of the fisheye camera), time-saving playback, Corridor Format in layout, Compatibility view in IE(Internet Explorer) and sub-stream recording setups.
Ver2.10 (6.0.25.0) Jan., '18	C				x	-	-	Supported WV-S4150, WV-S4550L and WV-S4550LM.
					x	-	-	Supported "Concurrent User License Kit". WJ-NXC05W must be installed to be controlled by WV-ASM300CLW.
					x	-	-	Supported HDD Viewer Software.
					x	-	Revised on Jan.17,2018	Supported EnergyEfficient Ethernet (IEEE802.3az) Switch. Improved not to correspond to IEEE 802.3az to prevent packet loss occur even if Energy Efficient Ethernet (IEEE802.3az) had not been disabled on the switch side.
Ver2.11 (6.0.25.0) Feb., '18	B		x			While using with WV-S4150, WV-S4550L and WV-S4550LM, recording time (recording hours) may shorter than expected.	In case configurations are as follow; Compression: H.265(1) Smart coding (GOP control): On(Advanced) Image capture size: 5M(2192x2192) Image quality/Frame rate: One of FQ/1ips, NQ/1ips, NQ/3ips or NQ/5ips	Fixed.
Ver2.12 (6.0.25.0) Mar., '18	B		x				Revised on Mar.29,2018	Improved process of data recovery in RAID. Improved tolerance against noise and recovery response in HDD control. *Note: Updating firmware from ver 2.11 (or older) to 2.12 (or newer) takes much longer than previous It takes Approx. 15min (Max 30 min : In case of connect WJ-HXE400(s). Regardless of the number of WJ-HXE400's connections)
Ver2.20 (6.0.25.0) Apr., '18	B				x	-	-	Supported new cameras; WV-X4171, WV-X4571L, WV-X4170, WV-X4171, WV-X4571L and WV-X4571LM
					x	-	-	Added user authentication method at accessing camera.

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Ver2.20 (6.0.25.0) Apr., '18	B				x	-	-	Added Static Route function.	
					x	-	-	Added function to display online user information.	
					x	-	-	Possible to correct (move) camera frame position by manual when registering a face of the face collation function.	
					x	-	-	Supported Intelligent auto function and back light compensation function on i-PRO EXTREME cameras.	
					x	-	-	Supported holding position of fisheye correction after resuming from camera communication error.	
			x				-	-	Fixed. Displaying 2 cameras' picture alternatively while connecting with WV-ASM300.
			x				-	-	Fixed. Unable to detect an alarm on WV-ASM300 when "On" is selected for the "Additional alarm data" setting of the camera.
		x			-	-	Fixed. Rebooted (Related to DEC) while switching screens and screen patterns in live picture.		
Ver2.21 (6.0.25.0) June, '18	C				x	-	-	Fixed. The recovery start log is not displayed in rare cases nor the hour meter of the replacement HDD may not display even though RAID recovery is started.	
					x	-	-	Fixed. Live video may be rarely mixed display or black screen by changing the browser 4 screen display changed when browsing on a high spec PC.	
					x	-	-	Fixed. The NX Viewer may terminate unexpectedly when viewing an N3R file with the Viewer.	
Ver2.30 (6.0.28.0) July, '18	U				x	-	-	Support new cameras as follow; - WV-S8530N and WV-X8570N - WV-S1550L, WV-S2250L and WV-S2550L	
					x	-	-	Added the camera partitioning function. Became ability to set displaying / operating camera for each user.	
					x	-	-	Added a function to format HDDs without stopping recording.	
					x	-	-	Added a function to remove HDDs without stopping recording.	
					x	-	-	Added a function to confirm password before removing HDDs.	
					x	-	-	Added a function to inhibit an alarm pop-up a message.	
					x	-	-	Added 24-screen in a choice of the setting items as new function.	
					x	-	-	Support Digest authentication on WJ-GXE500.	

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Ver2.30 (6.0.28.0) July,'18	U			x	-	-	Changed the status display at adding new HDDs and/or external units from "Formatting HDD" to "Checking HDD".	
				x	-	-	Improved to display a dialog message that losing registered settings by clicking the "New" button to detect camera if the cameras have already registered.	
				x	-	-	Improved NTP vulnerability.	
Ver2.40 (6.0.30.0) Nov.,'18	C			x	-	-	Support new cameras as follow; - WV-S3111L, WV-S3131L, WV-S3511L and WV-S3531L	
				x	-	-	Changed password policy that it must include at least 3 types of characters among "upper case letters / lower case letters / numbers / symbols".	
				x	-	-	Added a function to measure the size of data for network communication.	
				x	-	-	Added function of displaying the remaining space and notification of the storage medium.	
				x	-	-	Added a function of emergency recording.	
				x	-	-	Added updating Dynamic DNS function.	
				x	-	-	Added a settings to keep aspect ratio at wide view screen on main monitor.	
			x			-	Unable to act in associate with the command alarm numbers between 65 to 128.	Fixed.
				x		-	Improved displaying picture smoothly immediately after switching when sequencing one image with two high resolution cameras.	
		x		-	The buzzer kept on sounding even after the event recording.	When setting "Buzzer duration" is "Rec." at "Alarm action" in "Event setup" tab.	Fixed.	
		x		-	Storage of various logs may fail.	After power interruption occur.	Fixed.	
Ver2.50 (6.0.30.0) Feb.,'19	C			x	-	-	Improved to be able to download all the recorded data for the specific period by automatically divided by 2GB even if the file size exceeds 2GB when downloading the original (n3r) format recorded data in the browser.	
				x	-	-	Added test output function for the terminals on rear.	
				x	-	-	Supported to sensitivity adjustment of camera communication error detection when RTSP / Internet mode connection.	
				x	-	-	Copied data in MP4 from V-series cameras may not be able to play back.	Fixed.
				x	-	-	Screen display may collapse depending on the number of cameras to be displayed and settings on the "Change the display position of camera" of the main unit setting menu.	Fixed.

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Ver2.50 (6.0.30.0) Feb., '19	C			x	-	-	Improved NTP vulnerability.
				x	ActiveX may not be able to be installed depends on InternetExplorer settings.	-	Fixed.
				x	Unable to output HDMI by a certain HDMI-SDI converter.	-	Fixed.
				x	-	-	Added settings of Smart coding in Easy Start.
				x	The output of the seamless sequence of the sub monitor while in the fisheye correction display on the main monitor, may be delayed by a bit of time.	-	Fixed.
				x	Network link errors frequently occur on the PC port.	-	Fixed.
				x	Switching from multi-screen to the fisheye correction screen, may take time until the screen changes.	When "Display 1 - screen live image on stream 2" setting is enabled.	Fixed.
				x	The fisheye correction position may be changed by special playback such as high-speed playback after turning the power Off/On.	-	Fixed.
Ver3.00 (6.0.31.0) Jul., '19	C			x	-	-	Supported new cameras; - WV-S1570L, WV-S2270L, WV-S2570L, WV-S6532LN, WV-X6533LN - WV-S1570LH, WV-S2270LH, WV-X6533LNH
				x	-	-	Added a function to set the VMD area of the camera in the setting menu.
				x	-	-	Added a function to set the schedule of the camera in the setting menu.
					-	-	Improved resistance not to affect the operation of the other units even if a HDD became abnormal in behavior.
				x	WJ-NX400 in 2 DOWN condition under RAID 6 operation may have behaved as follows; - The unit in 2 DOWN was removed and not able to record/playback data to/from it. [Condition] > Devices & Recorder: 4HDDs on the main unit, or 4HDDs on any extension unit. > Combination of 2 down: HDD1 and HDD2 - The recorder may have failed to playback some period in case two adjacent HDDs were down. [Condition] > Devices & Recorder: 4HDDs on the main unit, or 4HDDs on any extension unit. > Combinations of 2 down: HDD1 and HDD2, HDD2 and HDD3, HDD3 and HDD4, HDD4 and HDD1	-	Fixed.

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Ver3.00 (6.0.31.0) Jul.,'19	C				x	-	-	Added a function to select whether to use Camera Stream 2 so that optimal operation is possible depending on the system configuration.
					x	-	-	Added a function so that the recording status for each camera can be seen in the schedule recording on the operation panel of the main monitor in full screen display.
					x	-	-	Added parameters of "31 days", "62 days", "92 days", "123 days" and "153 days" to the recording period of group recording.
					x	-	-	Added a function to record the setting days on the referenced recording days display when automatic deletion of data is set to other than Off.
					x	-	-	Added the function to set the camera's self-return in the setting menu.
				x		Displayed the date and time on screen even if they were set not to display.	On WV-X8570N and WV-S8530N.	Fixed.
				x		NX Viewer showed "Error occurred in process of reading file." and unable to playback n3r file.	In a case that the n3r file contained 100 or more records (number of events).	Fixed.
				x		Data error may occur in mobile playback on Panasonic Security Viewer. (Occurrence frequency : Rare)	-	Fixed.
				x		The setting of "Image capture mode" on WV-X4571L/X4171L/S4550L/S4150 to be changed to "Ceiling" by any configuration changes on the recorders.	-	Fixed.
				x		Panasonic Security Viewer for iOS becomes fast playback at the recorded data is less than 15 ips when mobile playback="2048 kbps" / Transmission priority = "Frame rate".	-	Fixed.
			x	-	-	Changed the factory default setting value of "Fix the HDMI output to the following video mode" from "4K" to "1080p".		
			x	WJ-NX400 may have rebooted after the device, which was the target of the Panasonic alarm notification but not ready to receive it, started up. (Occurrence frequency : Rare)	-	Fixed.		

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Ver3.10 (6.0.33.0) Dec.,'19	C				X	-	-	Multi-browser support for Google Chrome, Firefox and Microsoft Edge. Please refer to the restrictions on the browsers other than Internet Explorer from here.	
					X	-	-	Supports SNMPv3.	
					X	-	-	Added communication error detection to the stream to HDMI monitor in addition to the one for recording.	
					X	-	-	Improved to display the number of HDDs which have been down in RAID mode in the error log, and also have the number included in the email body.	
					X	-	-	The following improvements were made for thumbnail search. - Added 1 min and 10 min to the display interval options. - The date and time of the assigned thumbnail is automatically replicated in the start date and time (start point) column.	
					X	-	-	Improved the operation from connecting to a camera to starting recording.	
					X	Except Chinese market model	-	-	Increased the number of operational cameras from 4 to 32 with the HTTPS in the Internet mode.
					X	Except Chinese market model	-	-	
				X		In the case that communication error occurs with many cameras, even the camera that can communicate may be regarded as an error with the HTTPS in RTP.	-	-	Fixed.
				X		-	-	-	Improved the reliability of RAID function. (Improved the data transfer control process with HDD)
					X	-	-	-	Added the oldest and the latest date and time information to SNMP.
					X	-	-	-	Added the email notification and the Panasonic alarm protocol at HDD skip.
			X	-	-	-	Improved the behavior that the images for the specific camera is not displayed correctly in the browser at ONVIF(JPEG) connection.		

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Ver3.11 (6.0.33.0) Feb.,'20	C			x		- Recording error may occur continuously. - The LCD may display unusual temperature such as 0 °C. - The recorder may not recognize the replaced HDD for RAID recovery. - The recorder may not play back the image nor display the timeline.	The RAID unit is in 1 down status and the defective HDD is in unusual fault condition (being unable to start up etc.) under the HDD operation mode of Mirroring/ RAID5/ RAID6	Fixed.
				x		The recorder may not bring an HDD down even if the HDD can affect the recording operation due to its slow response.	In the HDD operation mode of Mirroring/ RAID5/ RAID6	Fixed.
				x		HDD Skip may occur as the RAID unit does not work properly on rare occasions.	-	Fixed.
				x		All the installed HDDs may be removed after turning on the recorder if the recorder has the HDD in unusual fault condition (being unable to start up etc.).	-	Fixed.
Ver3.20 (6.0.33.0) April,'20	B			x		-	-	Supports new cameras: WV-U1130, WV-U1132, WV-U1142, WV-U1532L, WV-U1542L, WV-U2130L, WV-U2132L, WV-U2140L, WV-U2142L, WV-U2530L, WV-U2532L, WV-U2540L, WV-U2542L
				x		-	-	Supports the JPEG resolution of 16:9(9:16) aspect ratio. (Applicable Models: WV-U1130, WV-U1132, WV-U1142, WV-U1532L, WV-U1542L, WV-U2130L, WV-U2132L, WV-U2140L, WV-U2142L, WV-U2530L, WV-U2532L, WV-U2540L, WV-U2542L)
				x		-	-	Improved to display "NAS backup Interrupted" on the status display panel as an error to give notice of "Not backed up yet (Interrupted)" status of the backup function that backs up the recording data in the NAS drive (NAS backup function).
				x		The angle of view may change when PTZ operation is performed on Camera control panel while displaying a fisheye image from a 360-degree Network Camera on the main monitor. (Occurrence frequency: High)	Under the both of below conditions: - Operating in "Fisheye + Quad PTZ" (FE+4PTZ)" mode - Displaying an image on 1-screen on the main monitor	Fixed.
		x		Playback operation to the HDD unit in stand-by status from WV-ASM300 may: - Stop the recording for a few minutes - Reboot the recorder after stopping the recording for a few minutes (Note: This issue does NOT occur by the playback operation from a browser or the recorder's main monitor) (Occurrence frequency: High)	Under all the setting conditions below: - HDD stand-by control mode = On - HDD operation mode = RAID5 or RAID6 - Number of HDDS = 6 or more per unit - Playback from WV-ASM300	Fixed.		

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Ver4.00 (6.0.34.0) June,'20	C				x	-	-	Supports new cameras: WV-X1551LN, WV-X2251L and WV-X2551LN			
						x	-	-	Supports the cameras with "WV-XAE200W(AI-VMD)".		
						x	-	-	Supports the cameras with "WV-XAE201W(AI Privacy Guard)".		
						x	-	-	Applied the same password policy as the recorder's administrator password to the SNMPv3 password setting.		
							x		<p>Corrected on Dec.,22, 2020</p> <p>The recorder may reboot after the "Recording error(RCA)" warning. (Occurrence frequency: Low)</p> <p>With both of the following conditions; Group2 have been set in [Recording group setup] all the cameras registered in Group2 have "Connection error" for more than 1 hour - Two recording groups have been set in [Recording group setup] - Cameras in one group are working correctly but the all cameras in the other group have "Connection error" for more than 1 hour</p>		
Ver4.10 (6.0.34.0) Sep.,'20	C							Supports new cameras: WV-X1571LN, WV-X2271L, WV-X2571LN WV-S1552L, WV-S1572L, WV-S2252L, WV-S2272L, WV-S2552L, WV-S2572L, WV-X6533LNS, WV-S6532LNS			
								Improved the [Security] tab in [Extra function] so as to set whether or not to enable TLS 1.1 while in HTTPS communication between recorder and PC. Note: TLS 1.0 cannot be used.			
									Added the following JPEG image resolutions for ONVIF cameras - HVGAW(640×360) - HD(1280×720) - FHD(1920×1080)		
									Changed the authentication window when accessing the "Camera/PC port" and "PC port" from web browser, to the browser's basic authentication window. (Change of authentication window for logging in)		
								x	Sub monitor may not display images until the recorder is powered off and on. (Occurrence frequency: Low)	After powering off the sub monitor	Fixed.
								x	Timeline for the images recorded before upgrading to Version 4.00 are shown in incorrect color on HDMI monitor. (Occurrence frequency: High)	After upgrading the recorder with recording data in V3.20 or older to V4.00	Improved the timeline to display the correct color.
							x	Unable to download the recording data in mp4 format via web browser and results in recorder reboot with an error log "System reboot (Related to CPU)". (Occurrence frequency: Rare)	When an error occurs during internal processing in PC	Fixed.	

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Ver4.20 (6.0.35.0) Dec.,'20	C				x	-	-	Added the "Download root certificate" function in [Extra function]-> [Security] in the setup menu of web browser.	
					x	-	-	Added the "Change the recording order" function in [HDD management]-> [General], to enable the order change of HDDs (RAID units in RAID5/RAID6 mode).	
					x	-	-	Improved the failover function to use HTTP/HTTPS as a communication method.	
					x	-	-	Changed the authentication window when accessing the "Maintenance port" from web browser, to the browser's basic authentication window. (Change of authentication window for logging in)	
						x	The recorder may return to the live image when performing frame playback. (Occurrence frequency: Low)	Under both of below conditions: - [Image capture size] of the image is 4KUHD(3840×2160) or larger - Refresh interval of the image is "3 s" or longer	Fixed.
						x	-	-	Improved [Default screen] for main monitor in the below windows by adding "6Screen(Wide view)" and "24Screen(Wide view)" to the drop-down menu. - [User management]-> [User registration] - [User management]-> [Administrator setup]
Ver4.30 (6.0.35.0) Mar.,'21	C				x	-	-	Added the "Prohibit access from the outside of subnet" checkbox to the SNMPv1/v2 setup menu in [Network]-> [NTP/SNMP].	
					x	-	-	Supports new 360-degree fisheye cameras: WV-S4151, WV-S4551L, WV-X4172, WV-X4173, and WV-X4573L	
					x	-	-	Supports new multi-sensor cameras: WV-S8531N and WV-X8571N	
					x	-	-	Supports the improvement in version 1.10* of the following cameras: WV-U1130, WV-U1132, WV-U1142, WV-U1532L, WV-U1542L, WV-U2130L, WV-U2132L, WV-U2140L, WV-U2142L, WV-U2530L, WV-U2532L, WV-U2540L, and WV-U2542L **Concurrent transmission of both Stream(1) and Stream(2) at 30 fps"	
					x	-	-	Changed the digital certificate in recorders from Digicert certificate to GlobalSign certificate. Supports both Digicert certificate and GlobalSign certificate in cameras.	
					x	-	-	Added the [Extend an event recording during "MotionAlarm" of ONVIF event] checkbox to [Other setup] in [REC & event]-> [Advanced setup]. - When checked, the recorder continues the event recording that starts with "MotionAlarm" until it receives an end of event recording notification from a camera. The recorder repeatedly extends the recording time for the duration set in [Event recording duration].	
				x	-	-	Improved the process of RAID recovery from 2down of RAID6 mode under both of the following conditions: - After replacing two HDDs in order from higher number to lower number - The power turns off and on during the recovery of the first HDD		

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Ver4.30 (6.0.35.0) Mar.,'21	C			x		The recorder may reboot. (Occurrence frequency: Medium)	When a number of cameras in ONVIF connection are connected to the recorder.	Fixed.
				x		Unable to register the Registration key in "Registration of license" under [System management]. (Occurrence frequency: High)	When the recorder address is added to "Compatibility View Settings" in Internet Explorer.	Fixed.
				x		-	-	Chinese model only: Corrected the Chinese translation on the error dialog displayed during playback on Google Chrome, Microsoft Edge, and Mozilla Firefox, in the additional camera (96ch/128ch) mode: from: 面部检测摄像机授权软件 to: 摄像机扩展元件
Ver4.40 (6.0.38.0) July,'21	B				x	-	-	Supports new cameras: WV-S1136, WV-S2136, WV-S2136L, WV-S2236L, WV-S1536L, WV-S1536LN, WV-S2536L, and WV-S2536LN
					x	-	-	Supports to relay the frame display information of AI Occupancy Detection (WV-XAE207W) to WV-ASM300.
					x	-	-	Added the error log and the warning mail of "SD memory card recording failure" from a camera.
				x		-	-	Corrected the error notification to WV-ASM300 in case of 1 down in mirroring mode.
		x				The recorder may reboot in the early period of operation in version 4.30. (Occurrence frequency: Rare)	-	Fixed.
Ver4.50 (7.0.0.0) Aug.,'21	C				x	-	-	Supports new cameras: WV-U1130A, WV-U1132A, WV-U1142A, WV-U1532LA, WV-U1542LA, WV-U2130LA, WV-U2132LA, WV-U2140LA, WV-U2142LA, WV-U2530LA, WV-U2532LA, WV-U2540LA, WV-U2542LA
					x	-	-	Enabled Message ID setting for Extension software alarm No.1 to No.4 in [REC & event]-> [Advanced setup]-> [Extension software alarm] setup page. Selectable number: from 000 to 255
					x	-	-	Added traditional Chinese "繁體中文" to the "Language" drop-down menu in [Basic setup]-> [Date/Language]-> [Language].
					x	The recorder may reboot and downloading recording data fails. (Occurrence frequency: Very rare)	When downloading the recording data from the web browser with the following conditions. Downloading format : MP4 Recording stream : H.264 or H.265 Recording frame rate : 1 ips	Fixed.

WJ-NX400 Firmware Release Note

VER (ActiveX Ver) Release Date	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		
	A	B	C	U		Issue (Phenomenon)	Occurrence condition	Correspondence
Ver4.50 (7.0.0.0) Aug.,'21	C			x		<p>The recorder may stop recording and the live image may not be updated, for approx. 15 seconds, for the following cameras:</p> <p>Version 1.10 or later of WV-U1130, WV-U1132, WV-U1142, WV-U1532L, WV-U1542L, WV-U2130L, WV-U2132L, WV-U2140L, WV-U2142L, WV-U2530L, WV-U2532L, WV-U2540L, WV-U2542L (Occurrence frequency: Rare)</p>	<p>Perform the following operation with the recording frame rate set to other than 30(25) ips using HDMI monitors.</p> <ul style="list-style-type: none"> - With main monitor only: When the multiscreen layout of the main monitor is changed from "64-screen" or "32-screen" to other or from other to "64-screen" or "32-screen". - With both main monitor and sub-monitor: When the multiscreen layout of one monitor is changed. 	Fixed.

Important Information;

When you upgrade the firmware, once power off and on of WJ-NX400 before upgrading. If it were failed, please try it again after turning off and on of WJ-NX400.