

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
1.03 Nov.'10						-	-	1st Mass production Version * Bug fixed, UI changed from Engineering sample mode / Pre-production model. * "DoS attack failure (Live Monitor, 16Ch Full => Screen layout is different from Camera No.)" Fixed.
1.04 Jan.'11	B				x	-	-	Following "Camera Setting Function" added. 1. Super Dynamic ON/OFF 2. Outdoor / Flicker Less /Flicker less (60Hz) 3. 360 degree Pan Flip ON/OFF 4. Mount type : Desk Top / Ceiling Mount 5.Bit rate per client : 64 128 256 384 512, 768 1024 1536 2048 3072 4096kps 6.Light : OFF / ON / ON(Access)
					x	-	-	Supported RTP over HTTP * Internet mode Automatically ON in case of the Video/Audio request comes from different sub-net.
					x	-	-	Camera Model No. description was changed. - Model No. is listed after NP502/NW502S i-Pro models. - AXIS1_Std => AXIS - BB1 => BB1 (HCM1**) - BB2 => BB2 (HCM5**) - BB3_Std, BB3_HD => BB3 (HCM7**) - i-Pro1 => i-Pro (Old) - i-Pro2_Enc1 => GXE500-1 - i-Pro2_Enc2 => GXE500-2 - i-Pro2_Enc3 => GXE500-3 - i-Pro2_Enc4 => GXE500-4 * Deleted i-Pro2_HD, i-Pro2_Std, i-Pro2aHD, i-Pro2a_Std
					x	-	-	Added "No use Stream-2"setting on 2nd stream applicable models.
					x	-	-	Factory default values of i-Pro camera(admin/12345) are automatically filled in for fields of [User name] and [Password] in the [Camera registration] tab. (If the both fields are blank & change blank to some model No. in [Model] field)
					x	The latest face matching result is popped up even if other alarm happened. (Occurrence frequency : High)	Other kind of alarm occurred before the face matching alarm was deactivated,	Fixed.
					x	Cannot boot-up in PLAY ONLY MODE. (Occurrence frequency : High)	Power OFF/ON without pull-out HDDs after HDD removal process was done.	Fixed.
					x	Cannot boot-up in PLAY ONLY MODE.. And some data might be deleted. (Occurrence frequency : Low)	-	Improved a click action to change icon design when GUI button is clicked.
					x	It is impossible to set VMD alarm setting on GXD500. (Occurrence frequency : High)	When GXD500 is registered in NV200.	Fixed.
					x	It may happen not to able to search a certain time period. (Occurrence frequency : Mid)	Once set time in backward, then set at present.	Fixed.
			x	Present time on monitor TV is shifted from camera time that is recorded.	When long days pass turning power on.	Fixed not to shift the present time by adding periodical time correction.		
1.10 Feb.11	U				x	-	-	Supported WJ-NVF20
					x	-	-	Enable to set follows from browser screen. - Time/Date, Camera, REC/EVENT(Except face recognition setting), Camera title. * See Operating manual in detail.
					x	-	-	Enable to display following menu on browser screen. - Maintenance [System information/HDD information/System management]
					x	-	-	Only [Search/Playback] + [Copy] right holder can download recorded data from NV200.
					x	-	-	Supported WV-SC384, SW355, SW352

Added on July 3, 2013

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1.10 Feb.11	U				x	-	-	Changed playback CH setting. On REC-Event search, playback camera number is defined based on [Terminal alarm] setting or [Camera Site Alarm] setting. * Before this version, playback camera CH was fixed. Terminal Alarm 1 was Camera-1, T2=C2, ...
					x	-	-	Improve an accuracy of "Referenced recording days" result on "Recording setup" tab. In case of HDDx2 installation case..
1.11 July.'11	U				x	-	-	Manufacturing Factory was changed from Suzou (Ser.No.**V****) to Dalian (Ser.No.**D****).
1.20 Oct.'11	C				x	-	-	Camera-1 setting became disable to change in Face Recognition function : ON. (Frame rate, Quality, Resolution, etc)
					x	-	-	Add "Autohide" mode for "Status display panel" & "Operation panel". Enabled to select display resolution, 3xVGA(50ips) and VGA(50ips), in 1x1 multi-screen screen mode
					x	-	-	Enabled to detect & register cameras easily which had already been set IP address.
					x	-	-	Supported "Drag Zoom" function on NV200 monitor screen.
					x	-	-	Added "2H" into "8H", "24H" Time line. Enabled to set & display in fines.
					x	-	-	Enabled to set various setting from [Easy Start] menu in NV200 in case of camera setting has been done.
					x	-	-	Supported DDNS function (Dynamic DNS)
					x	-	-	Enabled to use "Viewnetcam.com".
					x	-	-	Supported "FQDN (Full Qualified Domain Name)" in addition to "IP address".
					x	-	-	Added a display function on HDMI-1 monitor. It displays a camera which is linked to alarm number when an alarm occurred. (Only on HDMI-1 . Video-1 is not supported)
					x	-	-	Increased "Registered Face thumbnail" number to 16 from 1.
					x	-	-	Added "Camera switch function" . It enables to show a camera on LIVE monitor which is linked to "Alarm/control connector" pins. Pin-1 to -9 => Camera -1 to -9.
					x	-	-	Supported "Audio playback" function on NV200 from a saved data in SD card. * DVD copied data cannot play back audio.
					x	-	-	Supported all setting function from browser screen except "Face registration" & "Register the license (Registration Key)".
					x	-	-	Supported Axis encoder M7001. Receive, Rec, Live display are available on JPEG mode. * Impossible to detect M7001 automatically. Register it by manual. Only support "JPEG".
					x	-	-	Enabled to do "Firmware version up" from browser. It will take approx.20 min.
					x	-	-	Enabled to set "Mask area" of a camera from NV200 GUI screen.
					x	-	-	Enabled to select 9,12 & 16 multi-screen, which are all displayed in "Equal layout" Full Screen. Also enabled to display 1x camera in Full Screen.
					x	-	-	Improved a registration method of BB series "VMD alarm setting". * Without connecting BB cameras, set Panasonic Alarm and tried to registered in NV200, then failed.
					x	-	-	Supported WV-SF132,-135,-SW152,-SW155.
			x	Cannot update to latest thumbnail even received face matching alarm. (Occurrence frequency : High)	Face matching alarm comes on alarm log / error log / statistical result screens.	Fixed.		
			x	-	-	Enabled to select "5sec" in Live Sequence duration time.		
			x	NV200 freezes with dialog screen when SD card format is done. (Occurrence frequency : High)	"Copy" right holder but does not have "Setup" try to format SD card.	Fixed.		
			x	-	-	Added "XF(Extra Fine)" mode. It has better record quality than "SF(Super Fine)".		
			x	Quick movement remains it's image lag. (Only on Live monitor. Recorded data playback is OK)	Under the combination of WV-SC385	Fixed.		
			x	-	-	Improved the accuracy of age & gender judgment.		

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1.21 Mar., '12	C			x	Audio delays than video. (Occurrence frequency : High)	While displaying live video without any operation. (Delay may be accumulate and approx. 30 sec. in a week.)	Improved delaying audio to add a routine for clearing buffer memory.
					-	-	Supported sending On/Off command to turn the image upside-down on SF13x and SW15x.
1.30 Mar., '12	C			x	-	-	Added 5 resolutions additions with conventional 3 resolutions (SXGA, VGA and QVGA); [16:9] (1) FHD(1920x1080), (2) HD(1280x720), (3) HVGAW(640x360), (4) QVGA(320x180) [4:3] (5) SVGA(800x600) Notes: - FHD is supported by SP50x and SW55x only (NP502 does not support). - FHD works as single streaming (unable to dual streaming). - In FHD/SF/30ips, simultaneous 9-camera recording is available as maximum.
				x	-	-	Added settings for displaying picture of 16:9 aspect ratio; (1) Added choice to display live "Equal layout" images in full screen (both 4:3 and 16:9). (2) Added choice to display either letter-box or fitting screen size with expanding in vertical. (3) Added choice to display 16:9 on web browser.
				x	-	-	Supported H.264 on AXIS and SONY's ONVIF® cameras .
				x	-	-	Supported WV-SW396, SW316, SW314, SC386, SP509, SP508, SW559, SW558, SW172, SW175, ST162, ST165 and VP101.
				x	-	-	Increased simultaneous connecting cameras to be 4 from 2. Note; ability of streaming is NOT changed.
				x	-	-	Changed some on ND_Viewer as follows; (1) Design: Renew colors (2) Added function to retrieve data automatically Recorded data will be searched and playing back from older automatically after starting the viewer software. (3) Supported multi-aspect ratio picture Added choice to display aspect ratio in screen. (4) Added mode for playing back smoothly Improved fast-forward-playback in "Step 2" and "Step 3" out of 3 steps to display all frames. (5) Autorun Run viewer software and playing back automatically by mounting DVD media onto drive of PC. (6) Full screen display Improved to display in full screen of PC.
				x	-	-	Added function to upload/download data for the face matching function.
				x	-	-	Changed on face matching and statistical processing as follows; (1) Refresh rate: from 5 Sec. to 1 Sec. (2) Shutter speed: from 1/100 to 1/25.
				x	-	-	Icon for audio will be displayed if audio data is exist for playing back on SD memory card or DVD media.
				x	-	-	Added choice whether embedding code or not to detect tampering for downloading data by FTP on ASM200 etc.
				x	-	-	Make function working with alarm available even if picture were displayed in full screen on main monitor.
				x	-	-	Make possible to playback even if picture were displayed in full screen on main monitor.
				x	-	-	Added choice to record all available cameras in a case selecting all cameras are defined as recording by terminal alarm.
		x	-	-	Added choice "Anytime" for schedule recording to record continuously applying regardless of schedule setting.		
		x	-	-	Make possible to detect cameras that output no video. As a result, abnormality on recording can be detected.		
		x	-	-	Added message "When the statistical processing function and face matching are being activated, live sequence will not be performed." in setting screen of the monitor for exclusive live picture.		

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1.30 Mar.,'12	C				x	-	-	Improve function that graph will be created based on current date/time automatically when the statistical processing button is clicked.
					x	Live video delays on some cameras. (Occurrence frequency : Low)	While displaying live video at 30ips on WV-SC385/SW395.	Fixed not to delay.
					x	Message "HDD management menu is displayed by another user." on dialog is appeared/disappeared, repeatedly. (Occurrence frequency : High)	On firmware version is either 1.20 or 1.21 and while formatting HDD automatically	Fixed not to display the dialog showing conflict at log-in.
					x	Panasonic alarm protocol notification is sent even if it were disabled. (Occurrence frequency : High)	When receiving camera site alarm while alarm event is disabled.	Fixed not to send the Panasonic alarm protocol notification.
					x	Referenced recoding days between recorder and browser is different. (Occurrence frequency : High)	BB-HCM5xx is included in the system.	Fixed to show correct value for both. Note: FTP connection (session) will be disconnected after 1 hour automatically even if this version were applied.
					x	-	-	Updated the table of Daylight Saving Time (Summer time).
					x	Downloaded is quitted unexpectedly while ASM series etc. are downloading images by FTP. (Occurrence frequency : High)	In the cases ASM series etc. were downloading images by FTP and FTP communication by "i-Pro configuration tool" simultaneously and completed FTP communication by "i-Pro configuration tool".	Fixed not to quit downloading unexpectedly.
					x	ActiveX may not be able to install. (Occurrence frequency : Very rare)	In the case following environment only; - IE8 or IE9 - Windows 7 - Firmware of WJ-NV200 is version 1.20 or 1.21.	Fixed to be able to install properly.
<div style="border: 1px solid black; padding: 2px; display: inline-block;"> Added on Sept. 7, 2012 </div> 1.40 June,'12	U				x	-	-	Added Click Center function on Internet Explorer (IE). On, ND_Viewer, supported displaying Dot by dot and saving JPEG.
					x	-	-	Note: Dot by dot A dot on playing back device will be shown as a dot on displaying device. This means that it will not be enlarged or reduced to fit displaying device.
					x	-	-	Added a function for PS-API and stream ID management.
					x	-	-	Improved maintenance function as follows; 1. Log for configuration Latest 5 setting histories will be stored to find incorrect configuration. 2. Added a cgi command to obtain period of recoding. Recording period on each HDD will be obtained. 3. Added a function to store model number of HDD in the internal log. 4. Added an operation to initialize the html contents. To make initializing the html contents.
1.41 August,'12	C				x	In the result of Face matching result on Face matching function, the registered face image and the name of the facial image (name of detected person) may not be matched. (Occurrence frequency : High)	Displaying the latest (past) face matching result after editing the list of the Registered face images.	Fixed to display both the registered face images and the name of the facial images (name of detected persons), properly.
					x	-	-	Improved a noise around lower part of screen depends on objects if Full-HD/15ips were set and monitored through Spot monitor terminal.
1.50 Oct,'12	C				x	-	-	Added a choice to switch alarmed channel to be displayed single full screen picture.
					x	-	-	Supported H.264 (Audio G.711) on AXIS camera.
					x	-	-	Supported WV-SF538/SF539/SF548/SF549.
					x	-	-	Added choices for zoom & focus adjustment on camera setup panel so that EX Zoom adjustment can be done without PC.
					x	-	-	Added the followings on camera setup panel to configure without PC; - Adaptive black stretch: OFF/ON - Back light compensation(BLC): OFF/ON - Auto slow shutter: OFF(1/30), upto2/30s, upto4/30s, upto6/30s, upto10/30s, upto16/30s - Day & Night(electrical): OFF/AUTO

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1.50 Oct,'12	C				x	-	-	Improve switching speed faster from Live multi-picture to Live single-picture.
					x	-	-	Improve accuracy of face detection at age and gender by increasing detecting points while using with WJ-NV200.
					x	-	-	Supporting RTSP over HTTP between cameras and recorders, makes possible to connect with i-pro cameras in Internet. Note: This is for a certain customer only.
					x	-	-	Supported to display resolution of n3r on ND_Viewer. Note: This is for a certain customer only.
				x		Does not refresh the information at upper right of panel on monitor after replacing cameras from browser. (Occurrence frequency : High)	Ex: In a case swap two cameras those are on diagonal (Camera 1 and Camera 4).	Fixed the display to be refreshed properly.
					x	-	-	Made disable to adjust zoom & focus at the camera setup panel for WV-SW316.
					x	-	-	Improved picture can be displayed even if 16:9 were selected on ONVIF® cameras.
				x		Unable to change IP address for registered cameras and show connection error. (Occurrence frequency : Low)	In a case re-detecting registered camera by "Easy start" and register it again after changing IP address.	Fixed to change IP address.
				x		Authorization on a certain camera is not changed from "Viewer" to "Operator" even if re-login as "Operator". (Occurrence frequency : High)	In a case, authorization for each camera is different between "Viewer" and "Operator".	Fixed to change correctly.
					x	-	-	Added acceptable user name "root".
2.00 Apr,'13	C				x	-	-	Supported new devices as follows; WV-SF435, WV-SW458, WV-SW458M and WJ-GXE100
					x	-	-	Made supporting up to 24 units by adding license.
					x	-	-	Made possible to register 2 NTP servers.
					x	-	-	Improved not to count an object twice if the object remains in the target area.
					x	-	-	Made available to configure camera settings as follows; 1. Added a function for setting initial position on 360-deg view camera by GUI on WJ-NV200 (without PC). 2. Added a menu for setting sensitivity of VMD alarm.
					x	-	-	Improved rendering quality on ND viewer for H.264 video to be displayed smoother.
				x		Unable to play back at desired position after selecting among alarm history and playing back in high-speed. (Occurrence frequency : High)	In a case playing back among alarm history.	Changed operation specifications by pressing PLAY button; - While in high-speed playback: Playback in normal (1x) speed. - While in normal (1x) playback: Playback from the beginning of the selected alarm event
				x		Playback may be skipped or stopped. (Occurrence frequency : Low)	In a case playing back (1x playback only) in high-bit-rate (approx. 6Mbps or more).	Fixed to playback properly.
			x	-	-	Fixed available for any users to switch check-on/off at "Enable camera control with mouse" on the camera control panel and to move displaying position while in digital zoom.		

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2.10 Aug., '13	C				x	-	-	Changed to an optional function of "Face matching function "effective from newly production units in July, 2013. This is effective from newly production units only and nothing influences existing units (which the function is already usable) even if new firmware would be installed.
					x	-	-	Added "Dual mode" that can record the same images and audio on two HDDs in the HDD operational mode.
					x	-	-	Supported new cameras as follow; Full HD PTZ: WV-SC588, WV-SW598 Fixed dome: WV-SF138, WV-SW158
					x	-	-	Added the alarm history relating to the i-VMD of the camera. Intruder detection: Camera alarm (Intruder detection) Loitering detection: Camera alarm (Loitering detection) Direction detection: Camera alarm (Direction detection) Scene change detection: Camera alarm (Scene change detection)
					x	-	-	Supported NDViewer that has compensates and converts fish-eye images captured by Panasonic's 360-degree network camera (hereinafter referred to as 360-degree camera) to "1-screen PTZ" or "4-screen PTZ". The compensation function is available only when the library file for compensation is downloaded from the URL below and installed on the PC in which the viewer software is installed. http://security.panasonic.com/pss/security/support/info.html Then, place the "ImageCorrection.dll" that is zipped in the library file, into either the followings; The "bin" folder that is under the folder of "ND_Viewer.exe" is placed. Or, "System32" folder.
					x	-	-	The following camera setting items can be configured on the recorder. Transmission priority (Frame rate/Advanced VBR)
					x	-	-	The release key number of the camera's extension software can be registered in the camera from this product now.
					x	-	-	Added 3s (3 seconds) as new parameter to the setting of "Duration" of "Live sequence" under "Live monitor".
					x	-	-	Send a warning if the number of data files exceeds the limit during copying to SD memory/DVD media. Limits: SD memory: 10,000 and DVD media: 24,950
					x	-	-	Improved the setup menu (1) Added explanatory notes to Camera setup screen. (2) Changed the factory default setting at Auto IP addressing in "Detect camera" is set "Off".
					x	Displaying no camera pictures and/or freezing the browser (Internet Explorer).	In case, switching live picture approx. 20 times on IE9/IE10.	Fixed the issue will not occur.
					x	Camera control buttons can be used for only one direction. (Occurrence frequency : High)	Operate PT buttons on Camera control panel under Internet Explore 10.	Fixed it works, properly.
					x	No matching at VMD Search. (Occurrence frequency : High)	Only recording events with 200 sec or longer intervals.	Fixed it works, properly.
					x	Increased inaccurate report at face matching function. (Occurrence frequency : High)	Have used the face matching function before Ver 1.40 and upgraded to 1.50 or newer.	Fixed it works, properly.
2.12 Nov., '13	C			x	1. Response in operation feels slow. 2. Unable to use cursor buttons on front panel. 3. Browser (IE) freezes. 4. It restarts after "1" though "3", above. (Occurrence frequency : High)	Attempting to view unauthorized camera.	Fixed.	
				x	It may restart in some months, unexpectedly, if connecting by browser or ASM series continuously. (Occurrence frequency : High)	Use with browser or ASM series and continuously connect for some months without disconnection.	Fixed not to restart unexpectedly.	

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2.15 Apr., '14					x	-	-	Added new function that is for disabling 'monlist' report. This provides the countermeasure for NTP DDoS attack only. It disables the 'monlist' report function of NTP daemon (service) on the WJ-NV200.
2.16 May, '14					x	Freeze image on HDMI output and it will be; 1. restored automatically in some moment. 2. restored by turning POWER OFF and ON. 3. restored by unexpected restart. (Occurrence frequency : High)	1. Two camera images are displayed in 4-screen. 2. Setting of resolution on each camera is one of the followings; QVGA(320x180), HVGA(640x360), HD(1280x720), QVGA(320x240), VGA(640x480) or SVGA(800x600) 3. Then by switching one of the screen pattern as follows; (1) Restore 4-screen after opening wide view operation panel on 16-screen and changing a screen pattern. (2) Switch screen pattern from 16-screen to 4-screen.	Fixed.
2.20 (5.2.5.0) May, '14	C				x	-	-	Supported WV-SFV631L, WV-SFV611L, WV-SFN631L and WV-SFN611L.
					x	-	-	Supported WV-SW115.
					x	-	-	Added a process to warn or to release HDD if the HDD had been detected responding too slow.
					x	-	-	Speed up switching screen while displaying 4-screen picture.
					*	Playback may not be done in a certain period (Recording hour seems shorter). (Occurrence frequency : Low)	In a case the recording is just switching over between HDDs while SD memory backup is in progress (as SD memory backup is "ON"), HDD SKIP ERROR appears (but it will not be logged) and unable to playing back in a certain period.	Fixed to keep recording and playing back, properly.
				x	-	-	Improved 30 second cycle jumpy picture.	
2.21 (5.2.5.0) June, '14	C				x	Unable to detect some cameras (WV-SP104W and WV-SF438) (Occurrence frequency : High)	When restarting the camera after cameras registered through browser with setting after detecting WV-SP104W and WV-SF438 and assigned IP addresses automatically.	Fixed to detect properly by extended time-out for restarting camera from 70 to 80 sec. that is matching with the time-out of GUI.
							x	Recording event list showed 0 (zero) event when showed recording event list of SD memory card and click the button of "Next page". (Occurrence frequency : High)
2.30 (5.3.5.0) October, '14	C				x	-	-	Supported new cameras as follows; SFN310/SFN311/SFN311L/SFR310/SFR311/SFV310/SFV311 SPN310/SPN311/SPN531/SPN611/SPN631/SPW531L SPW631L/SPW631LT/SPW598F
					x	-	-	Improved vignetting at zoom on fish-eye lenses.
					x	-	-	Improved not to auto-logout while copying.
						On 360-degree network cameras, camera status display would not be changing from "Changing IP address" to "Displaying image". (Occurrence frequency : High)	In a case, configure 17 or more cameras by "Easy Start" menu and 360-degree cameras would be 17th or later.	Fixed camera status display to be changed from "Changing IP address" to "Displaying image", properly.
							x	-
				x	On modes of SFV631L, SFV611L, SFN631L, SFN611L, SPN631, SPN611, SFV631LT, estimated recording days are shown different between browser and WJ-NV200. (Occurrence frequency : High)	In a case, display it on both browser and WJ-NV200.	Fixed.	

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Deleted for correction on June 24, '14

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2.40 (5.3.17.0) Sept.,'14	C				x	-	-	Supported new cameras; WV-SPW611, WV-SPW611L, WV-SC387, WV-SW397, WV-SW397A, WV-SFN531, WV-SFR531, WV-SFV531 Following cameras are for Chinese market only; WV-SFN313H, WV-SFN313LH, WV-SFN531LH, WV-SFN532H, WV-SFN533H, WV-SFV313LH, WV-SFV533LH, WV-SPN313H, WV-SPN313LH, WV-SPN533H, WV-SPN533LH, WV-SPW311LH, WV-SPW313LH, WV-SPW533LH	
					x	Shown incorrect referenced recording days. (Occurrence frequency : High)	All timetables were calculated as "0:00 to 24:00" when there was a camera that was in the setting "Anytime"	Fixed to show correct referenced recording days.	
						x	-	-	Added "i-PRO(Unknown)" as the model number of camera for detecting a new camera which has not supported yet.
						x	-	-	Changed to send only when needed periodic command transmission to WV-SF438, WV-SF448, WV-SW458.
2.60 (5.3.17.0) Apr.,'16	C				x	-	-	1. Deleted pre-registered User name (ADMIN), and Password (12345). 2. 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 "2") after initializing (default reset) by the INITIAL-SET button or by the setup menu.	
					x	-	-	Supported new cameras: WV-SFN110, WV-SFN130, WV-SFV110 and WV-SFV130.	
2.62 (5.3.18.0) Sept.,'17	U				x	-	-	Changed company name from "Panasonic System Co., Ltd." to "Panasonic Corporation".	

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Corrected
on May 8, 2017