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	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence	
1.10 June, '21					1st mass-production.			
1.11 June, '21	C			x	The operation of extension software stops after its trial period has expired. (Occurrence frequency: High)	When the followings steps are performed during the trial period: 1. Register the Registration key while the extension software is running 2. Keep the camera working without restarting it	Fixed.	
				x	Monitor output image becomes black. (Occurrence frequency: High)	When the camera is rebooted after changing the [Date/time display] setting from the initial setting at shipment (On) to "Off"	Fixed.	
				x	-	-	Supports the [Audio] setting function in the camera individual setting screen of i-PRO Configuration Tool version 2.0*. *To be released in the end of June	
				x	Applicable model: WV-S1136 only The image becomes blurred after the camera switches between color mode and black & white mode . (Occurrence frequency: High)	Under the environment with strong IR LED lights	Fixed.	
1.20 Sept., '21	C			x	-	-	Added SDK version to the [Software mng.] tab in the [Ext. software] page as below: - Displays SDK version of the camera in "SDK version" under "Unique information" - Displays SDK version of the extension software in "Software version" of each extension software information	
				x	-	-	Added the following actions for SD memory card error: - Displays the following alert when a bit rate higher than "8192kbp" is selected in [Max bit rate (per client)*]: "Since the value of "Max bit rate (per client)" of H.265/H.264 recording stream set for "Recording format" is larger than "8192kbps", there is a possibility an abnormality will occur in continuity of recorded video. It is recommended to set it to "8192kbps" or less." - Records SD memory card logs on the [Status] tab in the [Maintenance] page, in the case of loss of recording or abnormal response from an SD memory card - Sends Panasonic alarm protocol "Diag." to the destination servers designated in the [Notification] tab of the [Alarm] page, in the case of abnormal response from an SD memory card	
				x	-	-	Increased the maximum password length from 32 to 128 characters for "Authentication" in the [Network] page-> [Advanced] tab-> "SMTP(E-mail)".	

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	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence				
1.20 Sept., '21	C				x	-	-	Updated the pre-installed extension software WV-XAE200 (AI-VMD) to the latest version 2.11. Note: Upgrading camera to version 1.20 or later does not update the installed WV-XAE200. To use WV-XAE200 in version 2.11, manually update the WV-XAE200 to version 2.11 or initialize the camera using "INITIAL SET" button after firmware upgrade.			
					x	-	-	Improved the detection accuracy of scene change detection (SCD).			
					x	-	-	Improved the auto focus performance when switching from color mode to black & white mode.			
					x	-	-	Improved the image quality as follows: - Color reproduction accuracy and gradation adjustment when [Super Dynamic(SD)] is "On" - The performance of [White balance] function - The image resolution after digital zoom adjustment			
				x		-	-	Corrected the camera response to the "GetVideoEncoderConfigurationOptions" command of ONVIF Profile S.			
				x		i-PRO Configuration Tool (iCT) may not display a correct value in "Continuous operation" of the [Status of Cameras] screen.	Within 14 hours after starting the camera.	Fixed.			
				x		The camera may restart. (Occurrence frequency: Rare)	When the following two events occur at the same time: - Issue an alarm notification of WV-XAE200 (AI-VMD) - Image transmission stops such as when moving to the [Setup] screen	Fixed.			
1.21 Sept., '21	B			x	Firmware upgrade may fail. (Occurrence frequency: Rare)	When upgrading the camera(s) connected to WJ-NX100.	Fixed.				
			x		Image transmission stops. (Occurrence frequency: High)	When the camera receives the CGI command to set Internet mode to "On".	Fixed.				
1.31 Nov., '21	U				x	-	-	Added Link Layer Discovery Protocol (LLDP) setting tab to the [Advanced] tab on the [Network] page.			
					x	-	-	Supports the following extension software free of charge: - WV-XAE203 (AI Non-Mask Detection) - WV-XAE207 (AI Occupancy Detection) Note: Registration key is not required after upgrading to this version.			

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1.31 (SDK: V1.50) Nov., '21	U				x	-	-	Changed not to install extension software by firmware upgrade as below: - Previous versions : Installs AI-VMD and AI Privacy Guard by firmware upgrade when no extension software is installed on the camera - This version or later : Does not install any extension software by firmware upgrade Note: Pre-installed extension software at factory on this version or later is AI-VMD and AI People Detection.	
					x	-	-	Added a CGI command to transmit H.265/H.264 stream without NAL unit. Without NAL: "cgi-bin/setdata?H264NONALFLG=1" With NAL (default): "cgi-bin/setdata?H264NONALFLG=0"	
					x			Added "RAM capacity extension mode" to "Unique information" in the [Software mng.] tab of the [Ext. software] page. When set to "On": RAM capacity becomes 150MB When set to "Off": RAM capacity is 100MB Default: Off Note: Recording on SD memory card is unavailable when "RAM capacity extension mode" is set to "On".	
1.40 Dec., 21	B				x	-	-	Supports SSH File Transfer Protocol (SFTP) for image transmission. SFTP setting has been added to the [Setup] page.	
					x	-	-	Supports Message Queueing Telemetry Transport (MQTT) for alarm notification. MQTT setting has been added to the [Advanced] tab on the [Network] page.	
					x	-	-	Supports TLS 1.3. TLS setting has been added to the "HTTPS" window on the [Advanced] tab in the [Network] page.	
					x	-	-	Added supported browser information to the camera response to IP Setting Software and the CGI command "getinfo".	
					x	-	-	Changed the alarm name from "Panasonic alarm protocol notification" to "TCP alarm notification".	
					x	-	-	Added Subject Alternative Name (SAN) to the certificate signing request (CSR) for creating an HTTPS server certificate.	
					x	-	-	Added "NTP test" function to the "NTP" window on the [Advanced] tab in the [Network] page.	
					x	-	-	Improved the visibility of camera setting screen as follows: - Removed unnecessary titles - Switched the position of "Next" and "Back" button	
					x	-	-	Improved to enable image recording on an SD memory card even when "Ext. software mode" is set to "On" on the [SD memory card] tab.	

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1.40 Dec., 21	B			x		Unable to perform multicast transmission. (Occurrence frequency: Rare)	When the camera is started with the following settings: - "DHCP" is selected for "Network Settings" on the[Network] tab of the [Network] page - "Multicast" is selected for [Transmission type]	Fixed.			
					x	-	-	Improved the accuracy of time synchronization with NTP server.			
					x	-	-	Improved the camera response to the ONVIF command "CreateAnalyticsModules" when the name of installed extension software includes slash (/).			
					x	-	-	Improved the behavior when unsupported extension software "AI-VMD/AI People Counting for 360-degree fisheye" or "AI Privacy Guard for 360-degree fisheye" is installed on the camera as below: 1. Displays "Unsupported software" with software version on the [Ext. software] tab 2. Disables the setting window, registration of Registration Key, and operating schedule setting.			
				x		The ONVIF command "CreateRules" does not work. (Occurrence frequency: High)	When the [Image rotation] setting is changed after configuring extension software settings using "CreateRules" command.	Fixed.			
					x	-	-	Adjusted the Mic input volume on Google Chrome, Microsoft Edge, and Firefox to be equivalent to Internet Explorer.			
				x		Long press on [Manual zoom adjustment] button or [Brightness adjustment] button incorrectly starts text input mode on the button. (Occurrence frequency: High)	On the setup menu of "/tab" window for tablet device.	Fixed.			
					x	-	-	Changed the default setting of [Overwrite] from "Off" to "On" on the [SD memory card] tab in the [Basic] page.			
					x	-	-	Supports full frame rate streaming and audio output on version 92 or later of Google Chrome or Microsoft Edge browser.			
					x	-	-	Modified the French description on the [User. Auth] tab and [Host auth.] tab as below: 1. Camera control - From "Com. cam. Vid" to "Contrôle camera" 2. Live only - From "En dir.sl" to "Flux direct"			
			x		The camera temporarily stops image streaming even when there is no change in [Image capture mode]. (Occurrence frequency: High)	When the camera receives the CGI command "/cgi-bin/set_imgmode" for changing the image capture mode.	Fixed.				

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1.40 Dec., 21	B			x	The "Display style" setting of OSD unexpectedly changes to "Opaque". (Occurrence frequency: High)	When the camera receives the unsupported CGI command "/cgi-bin/set_camfunc".	Fixed.	
		x			Out-of-focus may occur after performing auto-focus.	When performing auto focus under all of the following conditions: - [Super Dynamic(SD)] set to "On" - Ambient illuminance is low - Point light source is captured on the image - Outdoor shooting with deep depth of field	Fixed.	
				x	-	-	Improved to manage multiple alarms of AI Occupancy Detection (WV-XAE207) by detection area. This enables alarm detection in Area 2 soon after the alarm detection in Area 1. Note: Version 1.20 or later of WV-XAE207 (AI Occupancy Detection) is required.	
1.41 Jan., '22	B			x	-	-	Supports Genetec Stratocast™.	
		x			The images just before a power off are not played back from an SD memory card properly. (Occurrence frequency: High)	When the camera is powered off under both of the following conditions: - The camera is recording images on an SD memory card in mp4 format - [RAM capacity expansion mode] is set to Off on the [Software mng.] page	Fixed.	
2.00 Apr., '22	U			x	-	-	Changed company name from "Panasonic i-PRO Sensing Solutions Co., Ltd." to "i-PRO Co., Ltd."	
				x	-	-	Updated SNMP extended MIB: Changed the extended Object ID(OID) from Panasonic(258) to i-PRO(57501). Note: - This change applies only to the products manufactured in April, 2022* or later, and is not applied by firmware upgrade. *Serial number: VDxxxxxx - MIB file and manual are available at the following link: https://i-pro.com/global/en/surveillance/database/i-pro-device-integration/snmp-mib	

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2.10 Aug., '22	B				X	-	-	Changed the color of AI-VMD detection frame at alarm occurrence from blue to red, for the ONVIF connection with Milestone.			
					X	-	-	Improved to display the image transmission log on the [Status] tab in the [Maintenance] page. Clicking the "Confirm" button of [Image transmission log] displays logs on a separate window.			
					X	-	-	Supports the notification of AI-VMD detection area ID as follows: - Added the [AI-VMD alarm area information] on/off setting to the [TCP alarm notification] window on the [Notification] tab. - Improved the response to the CGI command "/cgi-bin/get_io2" by adding the detection area ID.			
					X	-	-	Added the note "Use the latest edition of the software product." to the [Upgrade] tab in the [Maintenance] page and [Software mng.] tab in the [Ext. software] page.			
					X	-	-	Improved to notify the user of the lack of RAM capacity by displaying the following message in [Remaining RAM] on the [Software mng.] tab. Displayed message: Please uninstall the extension software or turn on the RAM capacity expansion mode.			
					X	-	-	Supports new Graphical User Interface (GUI) for the camera window. For details, refer to "New functions and addendum (New GUI) " (Control number: 0324) at the following URL for details: https://i-pro.com/global/en/surveillance/training-support/support/technical-information			
					X	-	-	Improved the human detection performance for extension software. Note: Extension software needs to be updated to the version released in July, 2022 or later.			
				X		AI Privacy Guard (WV-XAE201W) remains enabled even after [Privacy Guard target] is set to 'Off'. (Occurrence frequency: High)	When [Target stream] is set to "Stream (1)", "Stream (2)", "Stream (3)", "Stream (4)" or "Stream (2) & Stream (4)".	Fixed.			
				X		The 3rd party application on the camera may restart.	-	Fixed.			
			X			Unable to perform JPEG image transmission.	When transmitting AI-VMD (WV-XAE200) additional information with the video data.	Fixed.			
					X	-	-	Enhanced security.			
					X	-	-	Improved the image quality.			
					X	-	-	Improved the connectivity with Genetec server.			



This document describes WV-S1136/ WVS-2136/ WV-S2136L/ WV-S2236L firmware upgrade info.
1. Release version: Version 2.20
2. Release Note Reference Number: WV-S1136-008

September 30, 2022
i-PRO Co., Ltd.

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2.20 Sept., '22	C				x	-	-	Changed the company name in the GlobalSign digital certificate installed on the camera to "i-PRO Co., Ltd."
					x	-	-	Supports the FTP function.
				x		The occupancy detection area information is not included in the HTTP alarm notification from the camera.	-	Fixed.
				x		The frame rate and bit rate may not recover once they drop due to the environmental cause.		Fixed.