

Release Notes

Illustra Pro Gen 4 PTZ Series Cameras

Product Code	Model Name	Firmware
IPS02-P24-OI04	Illustra Pro4 2MP IRPTZ Outdoor Dome	Illustra.SS010.24.09.00.0004
IPS08-P25-OI04	Illustra Pro4 4K IRPTZ Outdoor Dome	Illustra.SS010.24.09.00.0004
IPS02-P07-RT04	Illustra Pro4 2MP PTZ Indoor Dome	Illustra.SS010.24.09.00.0004
IPS08-P25-RT04	Illustra Pro4 4K PTZ Indoor Dome	Illustra.SS010.24.09.00.0004

Product Data

Visit the IP Cameras section of our web site, www.illustracameras.com, to download datasheets and other documentation in PDF format.

August 2024

Note

In case of discrepancy, the information in this document supersedes the information in any document referenced herein.

8200 2007-03_K

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What's in This Release

What's New

New Features:

- AI Person counting
An all-new AI application to assist the improvement of building management efficiency by providing business intelligence of human traffic into a premise and its concurrent occupancy rate.

Added:

- AI Object classification
 - AI Tripwire Rule:
In addition to as many as 10 AI rules already available, Illustra 24.09 is pleased to introduce an all-new AI Tripwire rule.
 - AI Engine minimum confidence configuration support:
Objective: AI object events only with confidence level higher than the user-defined minimum level will be processed.
 - AI detection enhancement for airport carousel use case: luggage, handbag, suitcase.

Security

- Brute force Authentication /Password protection

Improved

- PTZ performance
 - PTZ Pan, Tilt, Zoom, Focus and Auto focus enhancement for a superior tracking experience
 - Increased minimum Shutter to 32,000
- Reduce reboot times
 - Minimising need or rebooting when setting Network settings
- Stream configuration
 - Revised Default max bitrate for CVBR from 8000 to 4000

Previous Release

Firmware Illustra.SS010.24.03.00.0005

1. PTZ motors enhancements for AI and Tyco Radar integration.
2. Network:
 - Hostname configuration for DHCP and DNS integration.
3. Cyber enhancements:
 - Enhanced brute force attack prevention
 - Added ONVIF user role support
 - Added second user logon notification

Firmware Illustra.SS010.06.05.00.0002

1. Official ONVIF conformance for Profile T for all models:
 - Camera now conformant to Profile S, Profile G, Profile M, Profile T
2. Introducing PTZ performance option for indoor models
3. Privacy zones: Increased support up to 10 Privacy zones
4. AI Object classification –
 - Reduced false positives for animals as people.
5. Continued Cyber security and stability enhancements.
6. Additional Stream mode: a. Full HD secondary stream i. Stream 2 updated with additional resolutions: 1664x936 & 1920x1080. ii. Limitation: Analogue/HDMI video output disabled in this mode.

Firmware Illustra.SS010.06.00.00.0007

1. Pro4 Series AI enhancement
 - Addition of 4 new object classes for ProGen4 family (trolley, backpack, handbag and suitcase)
 - Enhanced analytics engine to increase accuracy and detection range.

- Upgrading to this release will automatically enable AI analytics engine.
- 2. Alarm out Event changes: We introduced 3 types of alarm out handlings:
 - Latching: Alarm out will stay active until user manually clears it via GUI (legacy behaviour)
 - Momentary: Alarm out will trigger for a short period (0.5 sec) before expiring
 - Timed: Alarm out will trigger for a user configurable period (1- 600 sec) before expiringOnce upgraded, the camera will automatically change to Momentary.
- 3. Use of AI in day-to-day security monitoring.
 - Upgrading to this release will automatically set AE to AI person detect – Auto Exposure will automatically adjust to the region in which a Person is detected.
- 4. Continued Cyber security enhancements are included in this Firmware.
- 5. With the continuous growth and advancement of AI Object Classification and its applications such as AI Rules, legacy VI Rules are officially removed from Pro Gen 4 Dome and PTZ since 6.0.0.

Firmware Illustra.SS010.05.09.04.0022

New Features:

- ONVIF Profile M conformance
- AI Auto Exposure (over Face/Person AI object ROI)
- First Login:
 - EULA Acceptance prompt at first power up
 - Lens Calibration Warning prompt at first power up (Not applicable to PTZ Models)
- Improved AI:
 - AI Object Classification default enabled
- PTZ cameras: numbers of preset increased from 96 to 300, sequence from 16 to 96 (both Web GUI and iAPI, already accessible via victor/VideoEdge)
- SD Card enhancements

Firmware Illustra.SS010.05.08.00.0008

New Features:

- ONVIF Profile G compliance
- Tamper Detection & New Blur Detection
- PTZ Settings: Performance Mode (see manual for additional info)

Enhancements in

- AI Object Classification
- ONVIF enhancements
- DHCP enhancements
- Cyber Security Updates

Firmware Illustra.SS010.04.03.00.0008

New features and enhancements

1. Improvements in AI Object Classification Analytics and increasing number of rules and classes.
2. SIP call as Event action.
3. GUI resolution increased to 800 x 448.
4. Added Smart Defog in Picture setting utilities.
5. Network Utilities: Quality of Service, Traffic control.
6. Enhancements in PTZ Autofocus operations.
7. Enhancements in Video Latency.

Note: After a camera is upgraded to SS010.04.03.00.0008 the camera should not be downgraded as a reset is required and the user may be unable to log into the camera.

Firmware Illustra.SS010.04.02.00.0002.

1. PTZ usability enhancements
2. Internal MIC support for Indoor PTZ
3. Audio out bug fix

4. Video over HTTPS support (which will allow integrations for Secure Streaming with VideoEdge 5.7 onwards)

Note: Upgrading to this firmware requires a camera reset for Video over HTTPS changes to take effect.

Firmware Illustra.SS010.04.01.00.0002.

1. Introduces the new Pro Gen 4 Indoor PTZ camera models

Product Code	Model Name	Description
IPS02-P07-RT04	Illustra Pro4 2MP PTZ Indoor Dome	Illustra Pro Gen4, 2MP PTZ, 30x, indoor recessed, non-vandal, White, TDN, TWDR
IPS08-P25-RT04	Illustra Pro4 4K PTZ Indoor Dome	Illustra Pro Gen4, 4K PTZ, 22x, indoor recessed, non-vandal, White, TDN, TWDR

Firmware Illustra.SS010.04.00.00.0010

1. Introduces the new Pro Gen 4 Outdoor PTZ camera models

Product Code	Model Name	Description
IPS02-P07-RT04	Illustra Pro4 2MP PTZ Outdoor Dome	Illustra Pro Gen4, 2MP PTZ, 30x, outdoor recessed, non-vandal, White, TDN, TWDR
IPS08-P25-RT04	Illustra Pro4 4K PTZ Outdoor Dome	Illustra Pro Gen4, 4K PTZ, 22x, outdoor recessed, non-vandal, White, TDN, TWDR

Features

- High resolution, 2-to-8-megapixel images, Multiple IP streams of H.264, H.264IntelliZip, H.265, H.265IntelliZip

and MJPEG video

- Power over Ethernet (PoE) or AC powered (model specific)
- Dual power failover maximizes camera uptime
- Support for up to five Regions of Interest
- Video Intelligence, AI Object classification, Face Detection, Motion Detection and Blur Detection support on camera
- Improved accuracy for facial detection with updated, library and algorithms
- Edge Eventing with RTP meta-data streaming
- Outstanding color reproduction
- Ultra-low light capabilities to maintain color image quality without
- Adaptive IR changes LED powers depending on zoom position,
- Auto & Manual White Balance Modes
- Smart WDR, TWDR (model specific)
- Manual Focus and Zoom Control with One touch Focus
- Profile settings allow the mini-dome to adapt to scenarios such as retail, gaming, and more
- Support for up to nine Privacy Zones
- Support for FTP, SNMP, SMTP, CIFS, 8021.x and Firewall filtering
- Offline recording to SD card
- SD card event download
- SD card event buffering (requires micro-SD or SD-HC card)
- TrickleStor integration with VENVR, Exacq
- Expanded Browser Support: IE, Chrome, Firefox, Safari
- No dependencies on 3rd Party Utilities for Camera Setup (No QuickTime and Java requirements)
- UPnP Discovery
- ONVIF events
- Smartvue Integration
- SIP call support
- Enhanced Security spec compliant 2.4
- Enhanced Security Feature Provides: One-Click Security Hardening, User Access Log, Validates Complex Credentials, Disables Unused Protocols
- Crypto Authentication Device for key management and Encryption functionality
- Secure boot, which ensures the camera will not boot if software has tampered with in any way
- Integration with VideoEdge NVR, VideoEdge Hybrid, victor Unified Client, ExacqVision recorders and Clients
- Integration with Illustra Connect v 3.2 and above
- Illustra API v3.4.3
- ONVIF 2.4 profile S compliant

Firmware Upgrade

The Illustra Pro Camera can be upgraded through the camera web GUI or by using Illustra Connect.

Upgrade Camera Firmware through the Web GUI

NOTE: All camera settings are maintained after you upgrade the camera firmware. It is recommended to clear your browser cache after a firmware upgrade.

Procedure: Upgrade Camera Firmware through the Web GUI

1. Using a supported internet browser connect to the camera via the IP Address and login to the Web GUI.
2. Select **Setup** from the web banner to access the setup menus.
3. Select **Maintenance** from the **System** menu and identify the **Camera Upgrade** section.
4. Select **Browse**. The Choose file dialog displays.
5. Navigate to the location where the firmware file has been saved. Select the firmware file then select the **Open** button.
6. Select **Upload**. The file transfer begins and a progress bar displays.

Upgrade Camera Firmware through Illustra Connect

NOTE: All camera settings are maintained after you upgrade the camera firmware.

Procedure: Update Camera Firmware through Illustra Connect

1. Install and launch the Illustra Connect software utility.
2. From the displayed list of cameras; right-click on the camera requiring the software upgrade.
3. Select **Upgrade Firmware**. The Firmware Upload window will display.
4. Select **Choose File** and browse to the firmware upgrade file.
5. Select **Upgrade** to start the upgrade.

Accessing the Illustra Pro Series Camera Web User Interface for the first time

1. Select a supported browser and navigate to the camera IP address.
2. When you select the camera, the sign in page is displayed.
3. Select your preferred language from the drop-down menu. The default language is English.
4. Enter the default username and password when prompted - Username: admin, Password: admin.
5. Click **Log in**. The camera Web User Interface is displayed. The first time that you access the camera, or after a factory reset, you are prompted to **Define a Host ID** and **Select a Security Type**.
Define a Host ID: The admin user must enter a 6 character code for the Host ID that includes both letters and/or numbers. This unique password is used to access the operating system files. The HostID is not stored on the camera for security reasons and must be presented to Illustra Technical Support when remote access to the operating system is required.
Select a Security Type: Standard Security or Enhanced Security. If you are keeping Standard Security, default admin password change is **enforced**.
6. Optional - If you select the Enhanced Security option, you are required and instructed to change the username and create a complex password.

See below for further information on Security configuration.

Enhanced Security

The Enhanced Security feature intends to advance the security of the Illustra cameras by enforcing security best practices and adding features to allow the installer and end-users to customize the camera's security to meet their controls.

Security Modes Summary

Standard Security

1. Default admin password change is enforced.
2. Changes to communication protocols is available to all users with appropriate privileges.
3. Passwords complexity is set to require minimum of any 5 characters (admin cannot be used).
4. Authentication Method is set to basic by default.

Enhanced Security

1. Unsecure Protocols are disabled by default until enabled by a user.
2. Discovery Protocols are disabled by default until enabled by a user.
3. Changes in the protocols will only be available to a user with administrative privileges and require that user to re-enter their password.
4. Default admin username & password change is enforced.
5. Usernames for all accounts must meet the Username Password Complexity Requirements, which are detailed below.
6. Passwords for all accounts must meet the Password Complexity Requirements, which are detailed below.
7. AUTHENTICATION OF VIDEO STREAM ,INCLUDING DISABLING VIDEO OVER HTTPS
8. Authentication Method is set to HTTPS Digest by default (HTTP disabled).

Note: When applying Enhanced security all these changes will be done automatically, but if changing from Enhanced to Standard the settings will not be changed automatically – to reset to standard profile user will need to do changes manually or factory reset camera and select standard Security when prompted.

Username and Password Complexity Requirements

Username Complexity for Enhanced Security Mode:

- a. Minimum characters: 5

Password Complexity for Enhanced Security Mode:

- a. Minimum characters: 8
- b. Have least one character from each of the following character groups:
 - i. upper case letters ABCDEFGHIJKLMNOPQRSTUVWXYZ
 - ii. lower case letters abcdefghijklmnopqrstuvwxyz
 - iii. numeric characters 0123456789
 - iv. Special characters @ % + \ / ' ! # \$ ^ ? : , () { } [] ~ - _ `
- c. The password cannot contain the username.

Default admin/admin & Automatic prompt for username and password change at first login

The admin/admin user is hardcoded until security mode is selected on first login.

For Standard Security

Password change is mandatory after first login.

New Password should be a minimum of five characters long.

New Password cannot be admin.

For Enhanced Security

When selected, a pop up is visible requiring you to change your username and password.

- **A username & password change is mandatory** – Note: If the user sets a new username and password – admin/admin is automatically replaced.
- Certain criteria apply to both the username and password (See Username and Password complexity).

NOTE:

When Enhanced Security is enabled the user is prompted to change the username and password from the default admin/admin. If not all rules are applied then the change request is denied and credentials remain as admin/admin. Failure to comply by rules, intermittently may result in camera log in being unavailable for a few minutes to allow camera to restore default functionality.

How to restore admin/admin:

1. Restore factory default camera.

Changes in Enhanced security profile

When changing security to 'enhanced', the camera performs the following changes:

- Admin/admin password automatically replaced by new Enhanced username/password.
- Change from basic to Digest HTTPs authentication.
- Enables RTSP authentication and Video over HTTP.
- Disables all ONVIF discovery capabilities.
- Disables UPnP Discovery protocol.
- Disables Exacq Audio Ports.

Note: When applying Enhanced security all these changes will be done automatically, but if changing from Enhanced to Standard the settings will not be changed automatically – to reset to standard profile user will need to do changes manually or factory reset camera and select standard Security when prompted.

Enhanced security & DIO (alarm in & alarm out) and Edge Analytics

If a user requires DIO (alarm in/out) or Analytics with VideoEdge VENVR Edge analytics or ExacqVision Server, while the camera is in Enhanced Security Mode the user shall be required to manually enable "Video over HTTP" in GUI: Setup/ Security/Remote Access, or Manage the Video over HTTP setting Via GUI Setup/Security Status page.

This allows for VENVR Edge support or Motion and DIO alarms integration on the ExacqVision Server when the camera is on Enhanced Security mode.

DHCP

- On initial camera start up, and after a hardware factory reset, DHCP is enabled by default and it remains enabled until the camera receives either a DHCP address or is assigned a Static IP address.
- If no connection is made to a DHCP server within two minutes, the camera will go to default IP address 192.168.1.168, but will continue to search for a DHCP address.
- If the camera is assigned a Static IP address prior to DHCP being enabled, the camera first reboots for approximately 2 minutes, and then remains accessible at its Static IP until a connection is made to a DHCP server.

UPnP feature

UPnP (Universal Plug and Play) broadcasts information about the camera to other devices on the network. The UPnP uses the Windows Network apps to discover the devices in the network that you are connected to.

The information broadcasts about the camera are:

- Device Name : <Product Code>-<Serial Number>
- Manufacturer and manufacturer URL
- Model (product code) and model URL (same as manufacturer URL)
- Device webpage (camera homepage)
- Serial number
- MAC address
- Unique Identifier: uuid<unique id for that camera type>-<serial number
- IP address

Note: The information broadcast on Windows XP is slightly different from the above.

Unsupported Key UPnP Functions: Video streaming, Audio streaming.

Analytics

Motion Detection	Event Alarms	Yes	All
	Continuous Metadata	Yes	
Face Detection	Event Alarms	Yes	All Pro 4
	Continuous Metadata	Yes	
Blur Detection	Event Alarms	Yes	All
	Continuous Metadata	No	
Tamper Detection	Event Alarms	Yes	All
	Continuous Metadata	No	
AI Object Classification	Event Alarms	Yes	All
	Continuous Metadata	Yes	
Vehicle AI LPR Detection	Event Alarms	Yes	LPR only
	Continuous Metadata	Yes	
AI Person Counting	Event Alarms	Yes	All
	Continuous Metadata	Yes	

Video Intelligence

- The camera supports the configuration of Video Intelligence Alerts. You can define Video Intelligence settings that can be used to set up Analytics Rules.
- You can add up to three Analytics Rules by default on the camera web user interface. An alarm is generated each time an event is triggered.
- You can add up to twenty Analytics Rules and access continuous metadata if you purchase a license for *Video Intelligence - Full Suite*. See www.illustracameras.com for more information.
- Illustra Connect must be used to generate the xml required to purchase a license. Once purchased, the license can be uploaded to the camera using Illustra Connect or on the camera web user interface licensing page.
- On a hardware Factory Default, this license will be removed from the camera and will need to be re-added. On a software factory default, users can choose whether to retain the license. (Illustra Connect soft reset will automatically retain the license).
- For detailed information about configuring each rule, refer to the user manual.
- Video Intelligence alarms are compatible with VENVR 5.2.
- It is recommended to configure Video Intelligence rules on the camera, before adding the camera to a VENVR.
- After enabling Video Intelligence on a camera that is already on a VENVR, it is necessary to restart the NVR services in order for the new configuration to be recognized by the NVR. To restart the NVR services select **Advanced**, then select **Shutdown**, and then select **Restart NVR Services**.

AI Object Classification

- The camera supports the configuration of AI Object Classification. You can define the AI Object Classification settings that can be used to set-up Analytic Rules
- You can add up to 10 Analytic Rules by default on the camera web user interface. An alarm is generated each time an event is triggered
- For detailed information about configuring each rule, please refer to the user manual

- It is recommended to configure AI Object Classification rules on the camera before adding the camera to a VENVR
- After enabling Video Intelligence on a camera that is already on a VENVR, it is necessary to restart the NVR services in order for the new configuration to be recognized by the NVR. To restart the NVR services select Advanced, then select Shutdown, and then select Restart NVR Services.

Multicast

Multicast streaming is a one-to-many relationship between a camera and the clients receiving the stream. With a multicast stream, the server streams to a multicast IP address on the network, and clients receive the stream by subscribing to the IP address.

User can configure the Multicast via camera GUI or iAPI, on VideoEdge Camera configuration. The feature was released specifically to integrate with VideoEdge 5.1 Failover.

VENVR TrickleStor Integration / Offline Record Settings

When you configure the Offline Record Settings feature and once it detects a loss of connection with the recorder, it sends the video stream to the SD card within the unit. This satisfies the loss of video and continues recording.

Once the recorder is back online the camera initiates sending recorded video from the SD card to the recorder. The maximum time recording during the outage depends on the SD card and the recorded stream you selected. If the SD reaches full capacity, it deletes video from earliest recording to latest recording. This feature integrates with the VE NVR 5.0 and above. At present this feature is limited to only support Codec: H264 and H264+ Intellizip.

Note: TrickleStor integration is not supported under HTTPS connection, please use “both” or HTTP only when integrating with this feature.

Enhanced security & DIO (alarm in & alarm out) and Edge Analytics

If a user requires DIO (alarm in/out) or Analytics with VideoEdge VENVR Edge analytics or ExacqVision Server, while the camera is in Enhanced Security Mode the user shall be required to manually enable “Video over HTTP” in GUI: Setup/ Security/Remote Access, or Manage the Video over HTTP setting Via GUI Setup/Security Status page.

This allows for VENVR Edge support or Motion and DIO alarms integration on the ExacqVision Server when the camera is in Enhanced Security mode.

ONVIF Events generated for camera Analytics

The camera firmware will now support notification of on-board events via ONVIF alerts: ONVIF events will show alerts generated by the on-board analytics Motion Detection, Blur Detection, Face Detection, DIO status changes. Health stats will also be sent out periodically on the ONVIF events stream.

Picture Profiles

Profile settings allow the mini-dome to adapt to scenarios such as retail, gaming, and more with a simple drop down selection. Picture profiles are described below:

Picture Profile behaviour:

- Demo Mode VBR Highest is the default out of the box (or after a factory reset)
- Exposure default buttons will Default Exposure profile to Auto (it will not apply any bitrate changes)
- Demo mode will only revert back to VBR Highest on a Factory reset
- Demo mode to other values will change the bitrate to CVBR Max Bitrate 8000
- Other to Demo will not change the bitrate under any circumstance
- Other to Other will not change the bitrate under any circumstance

Demo

- Bitrate controller VBR
- Quality highest
- Set max exposure and min exposure allowed
- Set max gain value allowed
- Auto exposure selects shutter speed (between min and max exposure values) and gain (between 0db and max gain selection) to adjust exposure if light level or scene changes
- Use case: Out of the box configuration for optimal video and image quality

Auto

- Set camera Bitrate controller to CVBR
- Set Max Bitrate to 8000
- Set max gain allowed
- Set max exposure allowed
- Set min exposure allowed
- Auto Exposure selects shutter speed (between min and max exposure values), gain (between 0db and max gain selection) and iris position to adjust exposure if light level or scene changes
- Use case: General use

Shutter Priority

- Set camera Bitrate controller to CVBR
- Set Max Bitrate to 8000
- Set any shutter speed
- Set max gain value allowed
- Auto Exposure selects gain (between 0db and max gain selection) and iris position to adjust exposure if light level or scene changes
- Use case: Typically for use in scenes with motion, e.g. overlooking traffic. Caution: The illumination required for this configuration would need to be quite consistent.

Iris-Priority

- Set camera Bitrate controller to CVBR
- Set Max Bitrate to 8000
- Set any iris position
- Set Max exposure and Min exposure allowed
- Set max gain value allowed
- Auto Exposure selects shutter speed (between min and max exposure values) and gain (between 0db and max gain selection) to adjust exposure if light level or scene changes
- Use case: To select a required depth of focus. Selecting a high iris value will give a larger depth of focus so that objects close to and far from the camera can be in focus at the same time.

Caution: With a high iris value the camera is not able to produce a bright image in very low light levels

Gaming

- Set camera Bitrate controller to CVBR
- Set Max Bitrate to 8000
- Set Stream 1 Framerate to 30 (if lower than)
- Set max gain value allowed
- Set min exposure allowed
- Set max exposure no slower than 1/30s (NTSC/60Hz) or 1/25s (PAL/50Hz)
- Use case: Casinos or other situations where Frame Rate must be no slower than 30fps (NTSC/60Hz) or 25fps (PAL/50Hz)

Indoor

- Set camera Bitrate controller to CVBR
- Set Max Bitrate to 8000
- Set max gain allowed
- Set max exposure allowed
- Set min exposure allowed
- Auto Exposure selects shutter speed (between min and max exposure values), gain (between 0db and max gain selection) and iris position to adjust exposure if light level or scene changes
- Use case: Office environment where light levels can change quickly

Outdoor

- Set camera Bitrate controller to CVBR
- Set Max Bitrate to 8000
- Set max gain allowed
- Set max exposure allowed
- Set min exposure allowed
- Auto Exposure selects shutter speed (between min and max exposure values), gain (between 0db and max gain selection) and iris position to adjust exposure if light level or scene changes
- Iris operation tailored to give larger depth of focus if conditions are bright enough
- Use case: Outdoor operation with or without IR illumination enabled

Stream Tables – 2MP Normal Mode

		<u>Normal Mode</u>				
		Resolution	Description	Max FPS		
				TWDR Off	TWDR 2x	TWDR 3x
Stream 1	H.264,	1920 x 1080	1080p) 16:9	60	30	15
	H.265,	1664 x 936	(HD+) 16:9	60	30	15
	H.264+ H.265+ MJPEG	1280 x 720	(720p) 16:9	60	30	15
Stream 2	H.264, H.265, H.264+ H.265+ MJPEG	1920 x 1080**	1080p) 16:9	30	30	15
		1664 x 936**	(HD+) 16:9	30	30	15
		1280 x 720	(720p) 16:9	30	30	15
		1024 x 576	(PAL+) 16:9	30	30	15
		960 x 544	(qHD) 16:9	30	30	15
		816 x 464	16:9	30	30	15
		640 x 360	(nHD) 16:9	30	30	15
		480 x 272	16:9	30	30	15
Stream 3	H.264, H.265, H.264+ H.265+ MJPEG	640 x 360	16:9	30	30	15
		480 x 272	16:9	30	30	15
Stream 4	MJPEG	640 x 368	16:9	7	7	7

Note:

** Available via Streaming Mode selection: DualFullHDmode.

Limitations: Analogue/HDMI option removed from stream.

A maximum of 5 concurrent streams are supported by each camera, this includes shared streams.

Stream Tables – 8MP Normal Mode

		<u>Normal Mode</u>				
		Resolution	Description	Max FPS		
				TWDR Off	TWDR 2x	TWDR 3x
Stream 1	H.264, H.265, H.264+ H.265+	3840 x 2160 3264 x 1840 2688 x 1520	(4K) 16:9 16:9 16:9	30 30 30	25 25 25	- - -
	H.264, H.265, H.264+ H.265+ MJPEG	1920 x 1080 1664 x 936 1280 x 720	(1080p) 16:9 (HD+) 16:9 (720p) 16:9	60 60 60	25 25 25	- - -
Stream 2	H.264, H.265, H.264+ H.265+ MJPEG	1920 x 1080** 1664 x 936**	(1080p) 16:9 (HD+) 16:9	30 30	25 *1 25 *1	- -
		1280 x 720	(720p) 16:9	30 *1	25 *1	-
		1024 x 576	(PAL+) 16:9	30 *1	25 *1	-
		960 x 544	(qHD) 16:9	30 *1	25 *1	-
		816 x 464	16:9	30 *1	25 *1	-
		640 x 360	(nHD) 16:9	30 *1	25 *1	-
		480 x 272	16:9	30 *1	25 *1	-
Stream 3	H.264, H.265, H.264+ H.265+ MJPEG	640 x 360	16:9	30 *2	25 *2	-
		480 x 272	16:9	30 *2	25 *2	-
Stream 4	MJPEG	640 x 368	16:9	7	7	-

Notes:

*1 Stream 2 is restricted to 15 FPS when Stream 1 resolution is greater than 1920 x 1080.

*2 Stream 3 is restricted to 10 FPS when Stream 1 resolution is greater than 1920 x 1080.

Enabling TWDR on the 8MP camera will require Analogue Video to be disabled.

Enabling TWDR will restrict the frame rate of Stream 1 to 25 FPS for any resolution.

A maximum of 5 concurrent streams are supported by each camera, this includes shared streams.

** Available via Streaming Mode selection: DualFullHDmode.

Limitations: Analogue/HDMI option removed from stream.

Known Limitations and Issues

Set Up

Description	Suggested Work-Around
<p>Applicable to all Pro cameras: If camera date/time has been set manually, camera date/time may not be accurate if the camera has been without power for more than 24 hours</p>	<p>At first power up, and following every factory reset, when the camera is accessed for the first time it automatically sync with the workstation to get new Date and Time settings. Following this the camera should be setup with a NTP server to ensure the time is always accurate. NTP will guarantee clock sync as soon as camera is operational. If NTP is not available user should review date and time setting manually after the camera is plugged in.</p> <p>If the camera remains disconnected for an extended period the clock battery will probably discharge and cause the clock reset to 1970, once the date/time page is accessed the camera will automatically sync to the machine used in the active GUI session.</p>
<p>Applicable to all Pro cameras: Depending on how and when audio is enabled it can cause the camera to fail to record any video to SD card.</p> <p>Incorrect workflow:</p> <ul style="list-style-type: none"> • Configure motion and apply to a fault action • enable recording and select stream to record to • enable audio • enable audio input 	<p>Correct workflow:</p> <ul style="list-style-type: none"> • Configure motion and apply to a fault action • enable audio • enable audio input • enable record to SD and select stream to record to
<p>Applicable to all Pro cameras: At first boot or after a factory reset the camera will sync time zone, date and time with PC used on First Login.</p> <p>However, the camera may select a generic time zone which will not have DST time changes associated to it or, during Daylight saving time, the time zone may be offset if using a workstation on UTC time zone (windows)</p>	<p>Please check the time zone is assigned correctly at initial boot or after a factory default</p>
<p>Applicable to all Pro cameras: If Chrome Browser cache is cleared while the user has an active GUI session open, a credential pop up appears and repeatedly refreshes which does not allow user to input credentials.</p>	<p>Close and reopen Chrome browser or tab</p>
<p>Applicable to all Pro cameras: The camera can occasionally lose its personality details after a reset.</p>	<p>Reset the camera.</p>
<p>Pro G3 Application - unable to add Applications to test Add/delete Exacq</p>	<p>At time of release there was no official Application supported for this camera</p>
<p>User Permissions: Operator user changes to White Balance are not applied to video</p>	<p>Operator user will be shown White Balance but changes will not apply to video/camera.</p>

Description	Suggested Work-Around
Issue drawing Privacy Zones while zoomed in passed Max Optical Zoom	Draw Privacy Zones in optical zoom levels only.
Pro4 PTZ - Privacy zones on the PTZ camera work differently from the other fixed FoV cameras Privacy zones will generate from the centre of the FoV.	For PTZ camera Privacy zones: navigate to the centre of the Region you desire to create a privacy zone. Click on the edit pencil button. Define a zone by click and dragging from the centre of the camera field of view. When using the PTZ camera it is advised that you draw privacy zones larger than required to help ensure better coverage during PTZ operations. This compensates for privacy zone distortion and repositioning during Pan, Tilt and Zoom.
Pro4 PTZ: Zoom Speed changes depending on the Exposure setting – the speed slows at exposures greater than 1/30 sec (i.e. 1/15, 1/8 and ¼).	N/A
Pro4 PTZ . System could experience AF (autofocus) difficulties in low light scenes with low contrast.	N/A
Continuous Metadata License doesn't get removed on a factory reset.	N/A
Events and Actions>Analytics>Video Intelligence> Unable to change draw style once Perimeter has been selected as rule type.	Select draw style before selecting rule type.
Unable to delete a pre-set that is included in a Sequence.	Remove pre-set from any sequence before deleting.
With AF enabled, start-up of a camera can result in out-of-focus image.	1) Try manual focus and then try AF button. 2) Change a pre-set position or move the camera "significantly" enough for AF to work.
Periodic (Scheduled Alarm) event details are incorrect/missing in event log.	N/A
Periodic event config change requires reboot to apply.	N/A
Periodic Events currently only works with Snapshot and FTP.	N/A
Some FTP clip files are up to 300mb in size with a very high bit rate when there is sudden large change in light levels.	N/A
Pro4 PTZ: The camera GUI supports drawing a ROI (red box) on the video canvas which will allow the camera to automatically navigate to that area of interest. If the red box on the video canvas fails to perform a FoV repositioning then the box might be too small.	Draw ROI (red box) of a certain size to allow for automatic repositioning.
Pro4 PTZ: When the camera is zoomed in to digital zoom and there is a change to exposure or the camera is rebooted it will zoom out to the maximum optical zoom.	The camera zoom should be repositioned manually if required.

Description	Suggested Work-Around
Pro4 PTZ: Privacy zones will draw correctly up to max Optical zoom, if the user tries to define a privacy zone once digital zoom is reached - this will be applied back to max optical zoom 30x.	Draw Privacy zones with optical zoom range - 30x max
Pro4 PTZ: TWDR is not available when exposure is set to Manual or Shutter Priority.	To enable TWDR, set exposure to Auto.
Pro4 PTZ: Scans: The 'Random' can go outside of the scan limits set on the GUI.	If the limits are required, use either the Smooth or Stepped Scan.
Pro4 PTZ: You can select a home position type, a value, and a return time. After the return time, the setting is applied. After setting the home position type to Sequence, any other home settings will not be applied.	You can click any of the camera control options and this will then allow the newly assigned home position type to be correctly applied.
Pro4 PTZ: Before starting to record a Pattern, make sure that all PTZ movements have been stopped.	N/A
Pro4 PTZ: Privacy Zones should be added before the camera is added to a NVR – when adding Privacy Zones, Stream 3's resolution must be a 16:9 aspect ratio (refer to the camera GUI dropdown / manual for resolution options).	N/A
When the recorded Pattern has a pause at a certain point, when playing back, the pattern will play through without the pause.	N/A
No JPEG attachment on emails sent from the camera when recording is disabled or Snapshot is enabled.	Enable recording to SD card
Snapshots not being sent to the FTP server	N/A
Event logs and recordings timestamps are all in UTC regardless of camera time zone	N/A
Pro4 person count and tripwire integration will require new Exacq and vVE which are not yet ready for release	Consult future VMS release notes for integration updates
Pro4 SD card may unmount on reboot	Check camera UI for status
Pro4 Edge browser: Reveal password button erases password	Avoid clicking this and retype password
vVE backfill on VE may fail to set offline recorder setting when reenabled	Validate configuration on camera

Networking

Description	Suggested Work-Around
Applicable to all Pro cameras: CIFS sometimes shows 'Operation Failed' dialog despite all setup on the camera being correct.	If this occurs please ensure there is sufficient free space on your machine. Also clear out your temporary folders.
Applicable to all Pro cameras: When disabling UPnP, note that the camera will still be accessible on some machines as discovery results may have been cached.	UPnP will be fully disabled when Enhanced Security is enabled, cached results will also be blocked
Applicable to all Pro cameras: Camera cannot be accessed using UPnP when set to https mode.	Ensure camera is set to HTTP when using UPnP
Applicable to all Pro cameras: When camera switches to DHCP and a server is not found the camera will revert back to last configured IP but removes the gateway from the network settings	Enter gateway if required
<p>Applicable to all Pro cameras: the camera will support SIP calling as described below.</p> <p>SIP (audio output Speakers) Camera connected to Server/No audio stream to server - SIP call connect</p> <p>SIP (audio output Speakers) Camera connected to Server/ audio stream to server - SIP calls will be automatically rejected once answered</p> <p>SIP (audio output Network stream) Camera connected to Server/ audio stream to server - SIP call connect -once SIP is enabled on camera this will take over audio stream to server, recorder will not record microphone audio but only incoming SIP calls</p>	N/A

Picture Settings

Description	Suggested Work-Around
<p>Applicable to all Pro cameras: The Frequency setting in Exposure can limit FPS to 50FPS if the frame rate is set to 60 and 25 FPS if the frame rate is set to 30 when the frequency is set to 50Hz.</p>	<p>If FPS needs to be set above 50FPS, Frequency should be set to 60Hz.</p>
<p>Applicable to all Pro cameras: Changing Exposure settings on the camera can sometimes affect frame rate, lowering it well below what is set on the camera.</p>	<p>If frame rate is a priority, it is advised that Maximum Exposure is set to at least '1/60' to reach 60FPS or to '1/30' to reach 30FPS.</p>
<p>Applicable to 3MP Pro cameras: When TWDR is enabled, analogue video output will be disabled</p>	<p>Stream limitation</p>
<p>Applicable to all Pro cameras: The sharpness value increases by 1 when set to a value within the range of 26-49.</p>	<p>N/A</p>
<p>Applicable to all Pro cameras: When starting/changing a stream all three video streams will restart their exposure settings meaning the image darkens slightly before brightening up again. This will last just a few seconds.</p>	<p>N/A</p>

<p>Applicable to all Pro cameras Exposure profiles have the following behaviour</p> <ol style="list-style-type: none"> 1. Demo Mode VBR Highest is the default out of the box (or after a factory reset) 2. Exposure default buttons will Default Exposure profile to Auto (it will not apply any bitrate changes) 3. Demo mode will only revert back to VBR Highest on a Factory reset 4. Demo mode to other values will change the bitrate to CVBR Max Bitrate 8000 5. Other to Demo will not change the bitrate under any circumstance 6. Other to Other will not change the bitrate under any circumstance 7. When Exposure profiles sets new bitrate values, they will not automatically restart active stream to update to the new settings. Manual restart is required. 	
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Video

Description	Suggested Work-Around
<p>Applicable to all Pro cameras: Sometimes Video playing through camera GUI may not be live – it will show as a looping few seconds clip. This is due to a browser cache issue</p>	<p>Refresh page or clear cache.</p>
<p>Applicable to all Pro cameras: Privacy Zones can sometimes move position and resize slightly when stream resolutions are changed.</p>	<p>It is advised to setup your stream configurations prior to setting up Privacy Zones.</p>
<p>Applicable to all Pro cameras: If streaming to VLC and the camera undergoes a considerable time change either through factory defaulting of the unit, or manual/NTP change, the VLC video goes grey. This is a VLC application Bug – the issue does not occur on other applications or server integrations.</p>	<p>Restart the VLC stream or configure times prior to starting a VLC stream.</p>
<p>Applicable to all Pro cameras: Video playing through camera GUI may not be live - browser cache issue</p>	<p>Refresh page or clear cache.</p>
<p>Applicable to all Pro cameras: H265 Framerate is being reported incorrectly in logs.</p>	<p>Divide the reported framerate by 3 to get the actual framerate of the video. (This is only applicable to FW before 1.5.0).</p>
<p>Applicable to all Pro cameras: Setting the framerate to 1FPS when the stream is using the H265 IntelliZip codec may cause issues with bitrate.</p>	<p>Raise the framerate and reboot the camera.</p>

Pro 8MP Dome H26x vs. H26xiZip has 25% difference in bandwidth with same motion in the field of view	H26x vs. H26xiZip has 25% difference in bandwidth with same motion in the field of view.
Pro - 3MP & 8MP MDome have 50% increased MJPEG bandwidth	3MP & 8MP MP Dome have 50% increased MJPEG bandwidth.
Pro 3MP & 5MP GUI aspect ratio is 4:9 while stream 1 defaults is 16:9	Camera will convert ROI regions to the new aspect ratio but there may be a small area on borders that will not get covered by GUI ROI drawings.
Pro 4K. The camera shall support 30PFS on stream 1 , there are however video combinations that will just fall short of 30 (29fps) When Stream 2 is at full stream capabilities MJPEG 15fps	Adjust stream 2 to slightly lower resolution then max supported in order to allow stream 1 to reach full 30 FPS
Video streaming to external players may show some stutter at default 1/8	Increasing max exposure to 1/30 or higher provides a smoother video playback
Using Gaming mode with IntelliZip is not a supported combination - Gaming mode and IntelliZip are pretty much opposite of each other and the codec bandwidth saving feature will prevail over gaming mode maintaining FPS.	IntelliZip shall not be associated to Gaming mode exposure profile

Audio

Description	Suggested Work-Around
Applicable to all Pro cameras: Unable to clearly hear audio input stream when audio volume level is at default setting of 74%	Depending on the audio source (microphone, direct-line) setting the volume too high can introduce noise. Test the audio source at different levels to find a higher quality volume setting.

DIO

Description	Suggested Work-Around
Applicable to all Pro cameras DIO - Alarm out clears with a camera reboot	No workaround

Analytics

Description	Suggested Work-Around
Applicable to all Pro cameras: ROI only working on H264, the GUI will always show this feature but user should set the correct codec to support this feature.	ROI is only applicable to H264 stream
Applicable to all Pro cameras: Motion Fault Action may reset to blank after a firmware upgrade.	Re-select motion fault action.
Applicable to all Pro cameras: Motion detection region drawing Grid does not do what it is supposed to do	The Motion detection grid option is only a visual aid, it will not allow for cell selection

Applicable to all Pro cameras: GUI event log - cannot delete single event	Camera event log will not allow delete single event logs user can only delete all events
Applicable to all Pro cameras: All VI Events appear as Object Detection in the Event Download page	Due the extent of VI rules the clips recording for Video Intelligence analytics will use the generic Object Detection clip title
Applicable to all Pro cameras: Camera will report a Operation Failed when a 4th VI analytics rule is being created – this is due to unlicensed VI analytics which is limited to 3 rules	To obtain more than 3 VI rules apply for a full VI licence online
Applicable to all Pro cameras: If a licence is invalid the licence page will just refresh with no error message. The analytics support table will show no changes	N/A
Applicable to all Pro cameras: if using FTP to transfer alert video, when FTP transfer is enabled with Limit Transfer Rate set it may cause a pause in alerts being generated while transfer is taking place, causing Events to burst with a delay of up to 400 seconds	Unselecting Limit transfer rate will prevent these burst
Highlight faces in Face Detections is not supported on RTSP Streams and is only visible on the Web GUI	None. Hardware Limitation

Edge recording & SD card

Description	Suggested Work-Around
Applicable to all Pro cameras: Formatting or unmounting a SD Card is sometimes met with a 'Device is Busy' modal.	This usually means the camera is currently recording a clip to the SD Card. It is advised to wait for a period of time when no clips are being recorded or turn off recording on the Camera.
When DST time change are applied to the region, Events and clip names will not apply the 1h offset as they are managed and generated using UTC time	No Workaround
Applicable to all Pro cameras: Clip Record (TrickleStor Integration) is not supported when the Stream's codec is set to MJPEG.	Ensure your record stream's codec is either H264/H265 or H264/H265 IntelliZip to allow for the Clip Record feature to work.
Applicable to all Pro cameras: Changing Video Settings when a clip is recording may produce a corrupt MP4 due to the interruption	Setup your stream settings before you enable recording.
Applicable to all Pro cameras: occasionally it can happened that if a camera is recording to SD card at the exact time it loses power, this can generate a corrupt file. When the SD card culling comes to deleting this file it will fail putting the SD card in read only mode. System logs will be generated to notify SD card status	Copy required clips off the SD card before formatting to restore full writing ability.
Applicable to all Pro cameras: Clip Recording: Clips can sometimes be longer or shorter than the expected duration due to the gap between IFrames. This issue will be more prominent in Intellizip codecs.	N/A - This is a side effect of the stream settings.

Applicable to all Pro cameras: Edge recording - When changing Stream setting on a stream which is also used for SD card recording, the recording will need re-enabled as the camera will give preference to the live stream	Re enable Record to allow for new streams to be picked up by event record stream.
The camera GUI Edge Recording /Event download page will only allow for (the newest) 1000 Clips to be listed. Camera SD card may contain more especially on bigger SD.	To retrieve these user will need to directly access SD card.
Applicable to all Pro cameras: Occasionally SD Card Unmount then Mount may cause camera to have DSP Crash	Camera will bank swap and reboot to recover

Security

Description	Suggested Work-Around
Applicable to all Pro cameras: When Enhanced Security is enabled the user is prompted to change the username and password from the default admin/admin. If not all rules are applied then the change request is denied and credentials remain as admin/admin. Failure to comply by rules, intermittently may result in camera log in being unavailable for a few minutes to allow camera to restore default functionality.	Ensure that all username and password rules are followed.
Applicable to all Pro cameras: When the user logs out and selects the back arrow on the browser they are brought back into the GUI without being required to log in. Live video is displayed but if the user attempts to navigate to another page within the GUI an authentication pop up is visible. Logging in through this pop up causes issues with time and date.	When the user manually logs off and then back in there are no issues.
Applicable to all Pro cameras: Under Admin Login – when managing other users accounts – current password is meant for the admin user password and not for the account being managed	
Applicable to all Pro cameras: In Security status - Changing the value of Authentication will cause a service restart which will result in GUI being inaccessible for about 10 seconds	Wait 10 seconds for service to restart and GUI working again

<p>Applicable to all Pro cameras: Security → Firewall → Address Filtering → Deny option selected.</p> <p>When restoring a camera backup which has the 'Deny' option selected, the Address Filtering tab will have 'Off' selected instead, after the restore is complete.</p> <p>When selecting the 'Deny' option, all IP/MAC addresses that were previously entered remain saved and will be displayed within the table when the 'Deny' option is re-selected.</p>	<p>Re-select the 'Deny' option for Address Filtering - All previously entered details, prior to the creation of the backup, will have been saved and will be displayed as expected.</p>
<p>Applicable to all Pro cameras: Changing the enabled status of a feature in Basic Firewall can take up to 5 seconds to save. If the page is refreshed before the status change can be fully implemented, the incorrect status may be displayed on the GUI.</p>	<p>When enabling or disabling Basic Firewall features, wait for 5 seconds after changing the value.</p>
<p>Applicable to all Pro cameras: Sometimes Firewall settings are lost during an upgrade.</p>	<p>Re-configure the firewall settings after up- grading the camera.</p>
<p>Applicable to all Pro cameras: Login page may not fully load when the user logs in using the HTTPS method through the Chrome browser.</p>	<p>Refresh the browser.</p>
<p>Applicable to all Pro cameras: When selecting Enhanced Security - the admin user will be required to conform to new username & password rules- the new rules will not be applied to already created user profiles - all new profiles will require to apply to these rules</p>	<p>If required change user and operator passwords manually</p>
<p>Applicable to all models: Camera GUI can lockup Occasionally when using HTTPS.</p>	<p>If using HTTPS stop the video on the GUI to prevent lock-up.</p>
Description	Suggested Work-Around
<p>Applicable to all models: Backup/Restore: When the restoration changes the HTTP/HTTPS policy the camera may not be restored correctly.</p>	<p>Set the correct HTTP/HTTPS policy before restoring the file or reboot the camera after the restore.</p>
<p>Applicable to all models: Session timeout: Camera may log the user out of the GUI when in the Analytics events section when session timeout expires despite pressing buttons on the pages</p>	<p>The camera Event Log page does not account for activity on it and user may be logged out as part of the timeout setting</p>

I-API3

Description	Suggested Work-Around
<p>Applicable to all Pro cameras: When configuring Event Actions via GUI – the i-API3 configuration may not reflect the correct configuration for these settings.</p>	<p>Will be addressed in a future release.</p>
<p>Applicable to all Pro cameras: GUI, ONVIF and I-API3 stream configuration combination may not always reflect the camera limitation</p>	<p>The camera will automatically adjust to its limitation (check the stream table for details).</p>

ONVIF

Description	Suggested Work-Around
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ONVIF Picture setting currently not supported on Pro gen 3	Manage Picture profiles setting via camera GUI
Changes performed via ONVIF will not be reflected on camera GUI or iAPI	
<p>Camera has 2 separate RTSP for video:</p> <p>GUI & iAPI3 standard</p> <p>Rtsp://IP_Camera:554/videoStreamId=X</p> <p>ONVIF</p> <p>Rtsp://IP_Camera;554/Onvif/videoStreamId=X</p> <p>Camera is unable to Stream share the same stream using these two different rtsp.</p>	

Server Integration Limitations

Description	Suggested Work-Around
VideoEdge Integration: VENVR & Enhanced Security: Edge support Motion VI and DIO alarms integration on VideoEdge VENVR and ExacqVision Server is not supported when Enhanced Security mode is selected on the camera.	Enable video over HTTP on the camera (Setup > Security > Remote Access) when Enhanced Security mode is enabled to allow Metadata to be sent out from the camera.
VideoEdge Integration: If a Video Intelligence licence is added to a camera while configured on NVR, in order for the Server to see the NEW Video Intelligence continues metadata, it will required camera to be removed and added back to NVR for VI metadata to show support on Edge analytics.	
VideoEdge Integration: TrickleStor Integration with VideoEdge does not work under HTTPS mode in VideoEdge 5.2 or lower.	If using 5.2 or lower Use “both” or HTTP only setting on camera. Alternatively upgrade to 5.3 or above for full HTTPS integration
ONVIF Integration – Profile S Integration does not support Codec: H264 Intellizip, H265, H265 Intellizip.	If those codecs are required then an iAPI3 integration is necessary

<p>Avigilon ONVIF Integration: Server provides a button to set Default stream values, On the 8MP pro gen 3 it will cause stream to break as the server is not following camera stream limitations but simply takes each max value of resolution FPS without considering camera limitations</p>	<p>To recover the broken stream set 4K resolution from 60 back to 30 fps to restore stream to server</p>
<p>Avigilon ONVIF Integration: Server provides ability to change DIO normal status – this is currently not supported on ONVIF</p>	<p>Manage DIO normal status via camera GUI</p>
<p>Avigilon ONVIF Integration: in order to receive DIO status changes, Motion detection shall be enabled on the camera</p>	
<p>Genetec iAP3 Integration: In order to add iAPI3 camera to Genetec using iAPI3 the camera will need set to Digest (Security/Authentication tab) and Video over HTTP enabled (Security /Remote access tab) on the camera.</p>	

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Camera Firmware Upgrade

The camera can be upgraded via the web GUI using firmware provided by Illustra which can be found on www.illustracameras.com. The firmware can also be upgraded using the Illustra Connect tool (Windows based) or Illustra Tools (mobile app) or victor/VideoEdge, which also provides bulk firmware upgrade capability. Please refer to the respective application documents for further information.

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