Illustra

Release Notes

Illustra Pro Gen 4 Multi-sensor Dome Series Cameras

| Product code | Model Name | Firmware |
|----------------|-------------------------------------|------------------------------|
| IPS20-M12-OIA4 | Illustra Pro4 20MP Multisensor | Illustra.SS017.24.03.00.0009 |
| IPS32-M13-OIA4 | Illustra Pro4 32MP Multisensor | Illustra.SS017.24.03.00.0009 |
| IPS20-M12-OTA4 | Illustra Pro4 20MP Multisensor | Illustra.SS017.24.03.00.0009 |
| IPS32-M13-OTA4 | Illustra Pro4 32MP Multisensor | Illustra.SS017.24.03.00.0009 |
| IPR20-M12-OIA4 | Illustra Pro4 20MP Multi-sensor PTR | Illustra.SS017.24.03.00.0009 |
| IPR32-M13-OIA4 | Illustra Pro4 32MP Multi-sensor PTR | Illustra.SS017.24.03.00.0009 |

Product Data

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

March 2024

Note

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

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What's in This Release

What's New

Firmware Illustra.SS017.24.03.00.0009

- 1. Picture setting:
 - Additional cameras to Shutter speed range to include 1/3200 1/20000 1/12500. Now supported across all cameras.
 - Factory reset is required to pick up new settings.
- Streaming:
- Streaming mode DualFullHD now added to all models.
- 20MP models to support Stream 1 3MP resolution 2048 x 1536 including support for MJPEG codec.
- 3. Network:
- Hostname configuration for DHCP and DNS integration
- ONVIF
- Official Profile S support and accreditation
- Support for milestone server integration

Previous releases

Firmware Illustra.SS017.06.05.01.0024

- 1. Limited distribution for ONVIF conformance for Profile S for all models:
 - Camera now conformant to Profile S.

Firmware Illustra, SS017.06.05.00.0008

- 1. Privacy zones: Increased support up to 10 Privacy zones.
- 2. Al Object Classification optimization-
 - · Reduced false positives for animals as people.
- 3. Continued Cyber security and stability Enhancements.
- 4. 20MP models additional resolution:
 - Streams 2 & 3 add 640x480 on 4MP sensor camera only.

Firmware Illustra.SS017.06.00.00.0009

NOTE: To upgrade to this firmware the camera must be upgraded to build Illustra.SS017.05.08.03.0008 first. New Features:

- 1. 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 expiring

Once 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. First Login
 - EULA Acceptance prompt at first power up
 - Lens Calibration Warning prompt at first power up (Not applicable to PTZ Models)
- 6. Improved AI:
 - Face Detect pre-activated (license install exempt)
 - Al Object Classification default enabled

7. SD Card performance improved.

Firmware Illustra.SS017.05.08.03.0008

• Bridge Firmware to allow upgrade from builds on S017.05.08 & S017.05.07 to S017.06.00 release

Firmware Illustra.SS017.05.08.00.0007

New Features:

- Tamper Detection & New Blur Detection
- Multicast streaming

Enhancements in

- Al Object Classification
- Cyber Security Updates

Firmware Illustra.SS017.05.07.00.0011

- Implements Offline Recording feature
- Enhancements to Blur and Motion features now configurable per sensor
- Bug fixes
- Feature enhancements
- Bandwidth enhancements

Firmware Illustra.SS017.05.06.01.0005

Introduces the new Pro Gen 4 Multi-sensor Dome camera models:

| Product Code | Model Name | Description |
|----------------|--|---|
| IPS20-M12-OIA4 | Illustra Pro4 20MP Multisensor | Illustra Pro 20MP (4x5MP) Multisensor, 2.7-13.5mm, Indoor/Outdoor, TDN w/IR, IK10, IP66 |
| IPS32-M13-OIA4 | Illustra Pro4 32MP Multisensor | Illustra Pro 32MP (4x8MP) Multisensor, 3.6-11mm, Indoor/Outdoor, TDN w/IR, IK10, IP66 |
| IPS20-M12-OTA4 | Illustra Pro4 20MP Multisensor | Illustra Pro 20MP (4x5MP) Multisensor, 2.7-13.5mm, Indoor/Outdoor, TDN, IK10, IP66 |
| IPS32-M13-OTA4 | Illustra Pro4 32MP Multisensor | Illustra Pro 32MP (4x8MP) Multisensor, 3.6-11mm, Indoor/Outdoor, TDN, IK10, IP66 |
| IPR20-M12-OIA4 | Illustra Pro4 20MP Multi-sensor PTR | Illustra Pro 20MP (4x5MP) Motorised Multisensor, 2.7-13.5mm, Indoor/Outdoor, TDN w/IR, IK10, IP66 |
| IPR32-M13-OIA4 | Illustra Pro4 32MP Multi-sensor PTR | Illustra Pro 32MP (4x8MP) Motorised Multisensor, 3.6-11mm, Indoor/Outdoor, TDN w/IR, IK10, IP66 |

Features

o Wide area coverage 4x 5MP/8MP multidirectional sensors provide 360-degree coverage in four separate

streams

- High resolution, 20 to 32 megapixels multisensor (4 x 5MP/8MP cameras), Multiple IP streams of H.264,
 H.264IntelliZip, H.265, H.265IntelliZip and MJPEG video
- Power over Ethernet (PoE) or AC powered
- o Dual power failover maximizes camera uptime
- Support for up to five Regions of Interest per sensor
- Al Object classification, Face Detection, Motion Detection and Blur Detection support on camera
- o 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
- Auto & Manual White Balance Modes
- Smart WDR, TWDR
- Manual Focus and Zoom Control with One touch Focus
- o Profile settings allow the mini-dome to adapt to scenarios such as retail, gaming, and more
- Support for up to nine Privacy Zones per sensor
- 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)
- o Encrypted SD card feature
- Expanded Browser Support: IE, Chrome, Firefox, Safari
- No dependencies on 3rd Party Utilities for Camera Setup (No QuickTime and Javarequirements)
- o UPnP Discovery
- Cloudvue Integration
- SIP call support
- TrickleStor integration with VENVR, Exacq
- 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
- o 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
- o Illustra API v3.4.4
- o Network Quality of Service control
- Network Traffic control
- o Four cameras, one IP address
- Up to 4 SD Cards can be installed (one per sensor)

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.
- 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.

Features

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
- 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.
- 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 HTTP.
- 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 cam- era 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 disables Video over HTTP.
- Disables all ONVIF discovery capabilities.
- Disables UPnP Discovery protocol.
- Disables Exacq Audio Ports.
- Sets Secure connection for Metadata streaming

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.

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

| Allalytico | | | | | | | |
|---------------------------------------|-------------------------------|---------------------------------|---------------------------------------|---|-------------------------------|-----------------------------|-----------------------------|
| | Motion Detection Events | Motion Detection Metadata | Al Object Classification Alerts | Al Object Classification Metadata | Face Detection Metadata | Face Detection Events | Blur Detection Events |
| Illustra Pro4 20MP Multisensor | Yes | Yes | Yes | Yes | Yes * | Yes | Yes |
| Illustra Pro4 32MP Multisensor | Yes | Yes | Yes | Yes | Yes * | Yes | Yes |
| Illustra Pro4 20MP Multisensor | Yes | Yes | Yes | Yes | Yes * | Yes | Yes |
| Illustra Pro4 32MP Multisensor | Yes | Yes | Yes | Yes | Yes * | Yes | Yes |
| Illustra Pro4 20MP Multisensor PTR | Yes | Yes | Yes | Yes | Yes * | Yes | Yes |
| Illustra Pro4 32MP Multisensor PTR | Yes | Yes | Yes | Yes | Yes * | Yes | Yes |

^{*} Requires Free License Request

Al Object Classification

- The camera supports the configuration of Al Object Classification. You can define the Al 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 Al 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 Alarm & Metadata Stream

Camera Firmware will automatically set Stream Metadata Transport to Secure HTTPS streaming when Enhanced Security is selected.

Some recent Integration can support this configuration and will provide a full secure connection including the metadata streams, other integration, while camera is in Enhanced Security Mode still require the user 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. Information should be available on Integrations documentation.

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 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

License Plate Recognition (LPR) low, mid and high

- Set camera Bitrate controller to CVBR
- Set Max Bitrate to 8000Set max gain value allowed
- Set min exposure allowed
- Low vs mid vs high, set slower or faster max exposure values
- Auto exposure selects iris position, shutter speed and gain to adjust exposure if light level or scene changes
- Use case: License Plate Recognition such as parking garages or other moving vehicle scenario where a
 fast shutter speed must be maintained to give sharper images, while the vehicle or object is moving, to
 help License Plate Recognition software.

Manual

- Set camera Bitrate controller to CVBR
- Set Max Bitrate to 8000
- Set any shutter speed, gain value and iris position
- Fixed exposure
- Does not auto adjust if light level or scene changes
- Use case: Fixed conditions where illumination and scene will not change. If the lighting or scene changes
 the apparent brightness of the image will change.

Stream Tables - 20MP Normal Mode

| | Normal Mode | | | | | |
|---|---|--|---|--|--|--|
| | | Decelotion | Describedion | Max FPS | | |
| | | Resolution | Description | TWDR Off | TWDR 2x | TWDR 3x |
| | H.264, H.265, H.264+ H.265+ | 2560 x 1920 2560 x 1440*1 | 4:3 16:9 | 30 30 | 30 30 | 15 15 |
| Stream 1 H.264, H.265, H.264+ H.265+ MJPEG | H.265, H.264+ H.265+ | 2048 x 1536*** 1920 x 1080 1664 x 936 1280 x 720 | (3MP) 4:3 (1080p) 16:9 (HD+) 16:9 (720p) 16:9 | 30 60 60 60 | 30 30 30 30 | 15 15 15 15 |
| Stream 2 | H.264, H.265, H.264+ H.265+ MJPEG | 1920 x 1080** 1664 x 936** 1280 x 720 1024 x 576 800 x 600 816 x 464 640 x 480 640 x 360 480 x 272 | (1080p) 16:9 (HD+) 16:9 (720p) 16:9 (PAL+) 16:9 (SVGA) 4:3 16:9 (VGA) 4:3 (nHD) 16:9 | 30 30 30 30 30 30 30 30 30 | 30 30 30 30 30 30 30 30 30 | 15 15 15 15 15 15 15 15 |
| Stream 3 | H.264, H.265, H.264+ H.265+ MJPEG | 640 x 360 640 X 480 480 x 360 480 x 272 | 16:9 (VGA) 4:3 4:3 16:9 | 30 30 30 30 | 30 30 30 30 | 15 15 15 15 |
| Stream 4 | MJPEG | 640 x 368 | 16:9 | 7 | 7 | 7 |

Notes:

Limitations: Analogue/HDMI option removed from stream.

^{*1} The default resolution of stream 1 will be 2560x1440.

^{**} Available via Streaming Mode selection: DualFullHDmode.

^{***} Available on 24.03 release

Stream Tables - 20MP Corridor Mode

| | | Normal Mode | | | | |
|-------------------------|---|--|---|--|--|--|
| | | December 2 | December the co | Max FPS | | |
| | | Resolution | Description | TWDR Off | TWDR 2x | TWDR 3x |
| | H.264, H.265, H.264+ H.265+ | 2560 x 1920 2560 x 1440*1 | 4:3 16:9 | 30 30 | 30 30 | 15 15 |
| H.265 H.264 H.265 | H.264, H.265, H.264+ H.265+ MJPEG | 2048 x 1536*** 1920 x 1080 1664 x 936 1280 x 720 | (3MP) 4:3 (1080p) 16:9 (HD+) 16:9 (720p) 16:9 | 30 30 30 30 | 30 30 30 30 | 15 15 15 15 |
| Stream 2 | H.264, H.265, H.264+ H.265+ MJPEG | 1920 x 1080** 1664 x 936** 1280 x 720 1024 x 576 800 x 600 816 x 464 640 x 480 640 x 360 480 x 272 | (1080p) 16:9 (HD+) 16:9 (720p) 16:9 (PAL+) 16:9 (SVGA) 4:3 16:9 (VGA) 4:3 (nHD) 16:9 | 30 30 30 30 30 30 30 30 30 | 30 30 30 30 30 30 30 30 30 | 15 15 15 15 15 15 15 |
| Stream 3 | H.264, H.265, H.264+ H.265+ MJPEG | 640 x 360 640 X 480 480 x 360 480 x 272 | 16:9 (VGA) 4:3 4:3 16:9 | 30 30 30 30 | 30 30 30 30 | 15 15 15 15 |
| Stream 4 | MJPEG | 640 x 368 | 16:9 | 7 | 7 | 7 |

Notes:

Limitations: Analogue/HDMI option removed from stream.

^{*1} The default resolution of stream 1 will be 2560x1440.

^{**} Available via Streaming Mode selection: DualFullHDmode.

^{***} Available on 24.03 release

Stream Tables - 32MP Normal Mode

| | | Normal Mode | | | | |
|----------|---|---|--|--|--|--|
| | | D l. d' | December | | | |
| | | Resolution | Description | TWDR Off | TWDR 2x | TWDR 3x |
| | 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 | 15 15 15 |
| Stream 1 | 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 | 15 15 15 |
| Stream 2 | H.264, H.265, H.264+ H.265+ MJPEG | 1920x1080** 1664 x 936** 1280 x 720 1024 x 576 960 x 544 816 x 464 640 x 360 480 x 272 | (1080p) 16:9 (HD+) 16:9 (720p) 16:9 (PAL+) 16:9 (qHD) 16:9 16:9 (nHD) 16:9 | 30*1 30*1 30*1 30*1 30*1 30*1 30*1 30*1 | 25*1 25*1 25*1 25*1 25*1 25*1 25*1 25*1 | 15 15 15 15 15 15 15 |
| Stream 3 | H.264, H.265, H.264+ H.265+ MJPEG | 640 x 360 480 x 272 | 16:9 16:9 | 30*2 30*2 | 25*2 25*2 | 15 15 |
| Stream 4 | MJPEG | 640 x 368*2 | 16:9 | 7 | 7 | 7 |

Notes:

Limitations: Analogue/HDMI option removed from stream.

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

^{*1} Stream 2 is restricted to 15 FPS when Stream 1 resolution is greater than 1920x1080. *2 Stream 3 is restricted to 10 FPS when Stream 1 resolution is greater than 1920x1080.

^{**} Available via Streaming Mode selection: DualFullHDmode.

Stream Tables - 32MP Corridor Mode

| | | | | Normal Mode | | |
|----------|---|--|--|--|--|--|
| | | Decelution | December | | | |
| | | Resolution | Description | TWDR Off | TWDR 2x | TWDR 3x |
| | 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 | 15 15 15 |
| Stream 1 | 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 | 30 30 30 | 25 25 25 | 15 15 15 |
| Stream 2 | H.264, H.265, H.264+ H.265+ MJPEG | 1920x1080** 1664 x 936** 1280 x 720 1024 x 576 960 x 544 816 x 464 640 x 360 480 x 272 | (1080p) 16:9 (HD+) 16:9 (720p) 16:9 (PAL+) 16:9 (qHD) 16:9 16:9 (nHD) 16:9 | 30*1 30*1 30*1 30*1 30*1 30*1 30*1 30*1 | 25*1 25*1 25*1 25*1 25*1 25*1 25*1 25*1 | 15 15 15 15 15 15 15 |
| Stream 3 | H.264, H.265, H.264+ H.265+ MJPEG | 640 x 360 480 x 272 | 16:9 16:9 | 30*2 30*2 | 25*2 25*2 | 15 15 |
| Stream 4 | MJPEG | 640 x 368*2 | 16:9 | 7 | 7 | 7 |

Notes:

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^{**} Available via Streaming Mode selection: DualFullHDmode.

Known Limitations and Issues

Set Up

| Description | Suggested Work-Around |
|---|--|
| 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 | 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. 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. |
| 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. Incorrect workflow: • Configure motion and apply to a fault action • enable recording and select stream to record to • enable audio • enable audio input | Correct workflow: Configure motion and apply to a fault action enable audio enable audio input enable record to SD and select stream to record to |
| 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. 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) | Please check the time zone is assigned correctly at initial boot or after a factory default |
| 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. | Close and reopen Chrome browser or tab |

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| Applicable to all Pro cameras: The camera can occasionally lose its personality details after a reset. | Reset the camera. |
|--|--|
| Description | Suggested Work-Around |
| 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 |
| Periodic (Scheduled Alarm) event details are incorrect/missing in event log | N/A |
| Periodic Events currently only works with Snapshot | N/A |
| Blur will not trigger if the lens is covered suddenly with, say, polythene. | N/A |
| 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 |
| No JPEG attachment on emails sent from the camera when recording is disabled or Snapshot is enabled. | Enable recording to SD card |
| Event logs and recordings timestamps are all in UTC regardless of camera time zone | N/A |
| PG4MS - Privacy Zones move with the camera rather than staying over the area marked | Create Privacy Zone after camera has been moved |
| PG4MS - 502 Bad Gateway intermittently after an upgrade | Refresh browser after upgrade |
| Record Event Action can be enabled when Event Recording is disabled – there is no pop up to inform user that Event recording is not enabled. | Ensure Event Recording is enabled prior to enabling Record Event Action |
| Motion mask doesn't move when flip/mirror is enabled | Create motion mask after enabling mirror/flip |
| Pan and Tilt controls are reversed in Corridor mode | Use Pan controls to Tilt and vice versa |
| Privacy zone will move position when stream resolution is changed | Ensure camera resolutions are set to required values before creating Privacy Zones |
| Privacy Zones will move with the image when the camera is moved | Ensure camera is set to optimal position before creating Privacy Zones |

Networking

| Description | Suggested Work-Around |
|---|---|
| Applicable to all Pro cameras: CIFS sometimes shows | If this occurs please ensure there is sufficient free space on your |
| 'Operation Failed' dialog despite all setup on the camera | machine. Also clear out your temporary folders. |
| being correct. | |

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| 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 DCHP 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 |
| Description | Suggested Work-Around |
| Applicable to all Pro cameras: the camera will support SIP calling as described below. SIP (audio output Speakers) Camera connected to Server/No audio stream to server - SIP call connect SIP (audio output Speakers) Camera connected to Server/ audio stream to server - SIP calls will be automatically rejected once answered 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 | N/A |

Picture Settings

| Description Description | Suggested Work-Around |
|---|---|
| - | |
| Applicable to all Pro cameras: The Frequency setting in | If FPS needs to be set above 50FPS, Frequency should |
| Exposure can limit FPS to 50FPS if the frame rate is set to 60 | be set to 60Hz. |
| and 25 FPS if the frame rate is set to 30 when the frequency is | |
| set to 50Hz. | |
| Applicable to all Pro cameras: Changing Exposure settings on | If frame rate is a priority, it is advised that Maximum |
| the camera can sometimes affect frame rate, lowering it well | Exposure is set to at least '1/60' to reach 60FPS or to |
| below what is set on the camera. | '1/30' to reach 30FPS. |
| Applicable to all Pro cameras: The sharpness value increases | N/A |
| by 1 when set to a value within the range of 26-49. | |
| Picture settings page can become slow/unresponsive | Factory reset required to fix |
| Setting Exposure Profile to Manual and then changing WDR | WDR settings should not be used when exposure in |
| settings can cause Picture settings page to become | Manual Profile. Factory reset required to fix |
| unresponsive | , , |
| Applicable to all Pro cameras: When starting/changing a | N/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. | |
| | |

Applicable to all Pro cameras Exposure profiles have the following behaviour

- 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 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.

Video

| Description | Suggested Work-Around |
|---|--|
| 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 | Refresh page or clear cache. |
| Applicable to all Pro cameras: Privacy Zones can sometimes move position and resize slightly when stream resolutions are changed. | It is advised to setup your stream configurations prior to setting up Privacy Zones. |
| 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. | Restart the VLC stream or configure times prior to starting a VLC stream. |
| Applicable to all Pro cameras: H265 Framerate is being reported incorrectly in logs. | Divide the reported framerate by 3 to get the actual framerate of the video. (This is only applicable to FW before 1.5.0). |
| Applicable to all Pro cameras: Setting the framerate to 1FPS when the stream is using the H265 IntelliZip codec may cause issues with bitrate. | Raise the framerate and reboot the camera. |
| 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 4K. The camera shall support 30PFS on stream 1, there are however video combinations that will just fall short of 30 (29fps) | Adjust stream 2 to slightly lower resolution then max supported in order to allow stream 1 to reach full 30 FPS |
| When Stream 2 is at full stream capabilities MJPEG 15fps | |
| 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 |

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| Using Gaming mode with IntelliZip is not a supported | IntelliZip shall not be associated to Gaming mode exposure |
|--|--|
| combination - Gaming mode and IntelliZip are pretty | profile |
| much opposite of each other and the codec bandwidth | |
| saving feature will prevail over gaming mode maintaining | |
| FPS. | |
| | |

Audio

| 7.44.4.0 | |
|---|---|
| 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 | No workaround |
| with a camera reboot | |

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 evet log will not allow delete single event logs user can only delete all events |
| Applicable to all Pro cameras: All Al OC Events appear as Object Tracking in the Event Download page | Due the extent of AI OC rules the clips recording for AI OC analytics will use the generic Object Tracking clip title |

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| 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 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 happen 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 users will need to directly access SD card. |

| Applicable to all Pro cameras: Occasionally SD Card | Camera will bank swap and reboot to recover |
|---|---|
| Unmount then Mount may cause camera to have DSP | |
| Crash | |

Security

| Description | Suggested Work-Around |
|--|--|
| Applicable to all Pro cameras: When Enhanced Security is enabled the user is prompted to change the username and pass- word 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 dis- played 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 |
| Applicable to all Pro cameras: Security → Firewall → Address Filtering → Deny option selected. | 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. |
| 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. When selecting the 'Deny' option, all IP/MAC addresses that were previously entered remain saved and will be | |

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| displayed within the table when the 'Deny' option is reselected. | |
|---|--|
| 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. | When enabling or disabling Basic Firewall features, wait for 5 seconds after changing the value. |
| Applicable to all Pro cameras: Sometimes Firewall settings are lost during an upgrade. | Re-configure the firewall settings after up- grading the camera. |
| Applicable to all Pro cameras: Login page may not fully load when the user logs in using the HTTPS method through the Chrome browser. | Refresh the browser. |
| 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 | If required change user and operator passwords manually |
| Applicable to all models: Camera GUI can lockup Occasionally when using HTTPS. | If using HTTPS stop the video on the GUI to prevent lock-up. |
| Description | Suggested Work-Around |
| Applicable to all models: Backup/Restore: When the restoration changes the HTTP/HTTPS policy the camera may not be restored correctly. Applicable to all models: Session timeout: Camera may log the user out of the GUI when in the Analytics events section | Set the correct HTTP/HTTPS policy before restoring the file or reboot the camera after the restore. The camera Event Log page does not account for activity on it and user may be logged out as part of the timeout setting |
| when session timeout expires despite pressing buttons on the pages | and user may be logged out as part of the timeout setting |

IAPI3

| Description | Suggested Work-Around |
|---|--|
| Applicable to all Pro cameras: When configuring Event Actions via GUI – the iAPI3 configuration may not reflect the correct configuration for these settings. | Will be addressed in a future release. |
| Applicable to all Pro cameras: GUI, and IAPI3 stream configuration combination may not always reflect the camera limitation | The camera will automatically adjust to its limitation (check the stream table for details). |

ONVIF

| Description | Suggested Work-Around |
|--|-----------------------|
| ONVIF functionality is not currently supported for Pro 4 | N/A |
| Multi-sensor cameras. Only ONVIF Discovery is supported. | |
| | |
| | |

Server Integration Limitations

| Description 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 |
| 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. | |
| Tricklestor is not supported when camera is added to VideoEdge using with Streaming Security Level set to Force Secure (Video over HTTPS). | Add camera with Streaming Security Level set to Prefer Insecure (Video over HTTP). |

Contact Information

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