

## External Release Notes

### Illustra Pro3 5MP Bullet Thermal EST

Product Code	Model Name	Firmware
IPT05-B29-BI03	Illustra Pro 5MP Thermal Bullet EST	Illustra.S011.01.00.01.0509
IPT05-B29-BIA3	Illustra Pro 5MP Thermal Bullet EST	Illustra.S011.01.00.01.0509

#### Product Data

Visit the IP Cameras section of our web site, [www.illustracameras.com](http://www.illustracameras.com), to download datasheets and other documentation in PDF format.

July 2020

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#### 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.S011.01.00.01.0509

Introduces the new Pro camera models.

Product Code	Model Name
IPT05-B29-BIA3	Illustra Pro 5MP Thermal Bullet EST

**Along this firmware also update the thermal driver Illustra.S011\_thermal-driver\_20200701S5505\_H1, this can be updated following same procedure as GUI Firmware upgrade.**

Firmware also included the following new features:

- **Cyber Enhancements**  
**All cameras, following upgrade, will need a full factory default including resetting network settings, to resume correctly due to cyber updates. If the camera is configured on a server, it will require to be removed and added again after this process. Not performing this factory default will cause HTTPS Edge analytics not to work**
- **Face detection usage selection:**
  - Single Face Mode = 1 Face at time between .7 and 1 Meter from the camera at a max rate of 10 to 15 people per minute or one every 4 seconds. (IEC compliant)
  - Multi Face Mode = Up to 20 faces at a time between 2 and 6 meters at a max rate of 200 people per minute or 20 people at a time. (Not IEC compliant)
- **Update Blackbody restricted area**  
 New build updates the blackbody bounding box.  
 Bounding box now includes most of the FoV which exception for edges of thermal view.  
**Please reconfigure Blackbody position following upgrade.**
- **New GUI tab for Session time out.**  
 Under Security / Security Management / Logout time tab  
 Session time out are defaulted 10 min, but can configured between 60 - 3600 sec or disabled.  
 Modifying this value may be required for camera standalone temperature monitoring.
- **Edge analytics security hardening:** Setting GUI to HTTPS will automatically also make EDGE Metadata Events stream use HTTPS.
- **ONVIF Conformance**
- **iAPI3 Integration**
  - Edge Motion analytics events now supported
  - Stream Bitrate Rate control support: Added VBR
  - Stream MJPEG quality control
  - Audio support: added G711u G711a
  - NTP configuration via iAPI3 (Exacq Integration)
  - DIO status reporting

## Previous Firmware

**Firmware** Illustra.S011.01.00.00.9143

Introduces the new Pro camera models.

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## Key Features

- High resolution, 5 megapixel visible stream
- Elevated Skin Temperature detection of a single or Multiple individuals
- Configure a physical output to support visual or audio alerts from the camera upon an elevated skin temperature detection
- Camera GUI live stream bounding box or temperature indication overlay
- 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
- ONVIF 2.4 profile S compliant
- Power over Ethernet (PoE) or AC powered
- Motion Detection, Blur Detection, Video Intelligence support on camera
- Wide Dynamic Range, DWDR
- Eventing with secure HTTPS metadata streaming
- SD card event recording (requires micro-SD or SD-HC card)
- SD card event download
- UPnP Discovery

## **Accessing camera for the first time**

1. Select Internet Explorer browser and navigate to the camera IP address.
2. Browser should prompt for a plugin installation.
3. Complete plugin wizard installation and return to browser.
4. When you select the camera IP, the sign in page is displayed.
5. Select your preferred language from the drop-down menu. The default language is English.
6. Enter the default username and password when prompted - Username: admin, Password: admin.
7. 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 **Change Default Password**.

## **Password Complexity Requirements**

Minimum characters: 9

- a. 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    @ % + \ / ' ! # \$ ^ ? : , ( ) { } [ ] ~ - \_ `
- b. The password cannot contain the username.

### **How to restore admin/admin:**

1. Restore factory default camera.

## **Firmware Upgrade**

You can upgrade the Illustra Pro Thermal Camera through the camera web GUI.

## **Upgrade Camera Firmware through the Web GUI**

### **Procedure: Upgrade Camera Firmware through the Web GUI**

1. Using Internet Explorer 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 **Upgrade** menu and identify the **Local 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.
7. Camera upgrade can take up to 5 minutes
8. When upgrade completes, the camera will return to login Screen

## **Thermal Driver Upgrade**

You can upgrade the Illustra Pro Thermal Camera thermal driver through the camera web GUI.

## Procedure: Upgrade Camera Thermal Driver through the Web GUI

1. Using Internet Explorer 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 **Upgrade** menu and identify the **Local Upgrade** section.
4. Select **Browse**. The Choose file dialog displays.
5. Navigate to the location where the thermal driver file "Illustra.S011\_thermal-driver\_.....dat" has been saved. Select the file then select the **Open** button.
6. Select **Upload**. The file transfer begins and a progress bar displays.
7. Camera upgrade can take up to 5 minutes
8. When upgrade completes, the camera will return to login screen.

## Analytics

Illustra Pro 5MP Thermal Bullet	Elevated Skin Temperature	Motion Detection	Blur Detection	Video Intelligence	Face Detection
Standalone	Yes	Yes	Yes	Yes	Yes
Edge (VideoEdge and Exacq)	Yes – Events only	Yes – Events only	No	No	No

## Stream Tables

### Pro3 Thermal 5MP EST Bullet stream table

		Resolution	Max FPS
<b>Stream 1 (Visible)</b>	H264 H265	2592x1944 2592x1520 2560x1440 2304x1296 1920x1080 1280x720	30
<b>Stream 2 (Visible)</b>	H264 H265 MJPEG	1280x720 704x576 352x288	30
<b>Stream 3 (Visible)</b>	H264 H265 MJPEG	704x576 480x240 352x288	30
<b>Stream 4 (Thermal)</b>	H264 H265 MJPEG	704x576	30

**Note:** A maximum of three concurrent streams are supported by the camera. This includes shared streams.



## Known Limitations and Issues

Description	Suggested Work-Around
Thermal Black body calibration: Following thermal calibration saving the overlay temperature of blackbody may not update automatically – page refresh may be required.	Refresh page following setting new thermal calibration setting.
For thermal calibration in Fahrenheit- always apply an offset of 32 minimum	
If monitoring Live video via GUI, Stream may freeze. This is due to the security session timeout setting.	If monitoring Thermal temperatures via Camera GUI interface, it is advisable to extend GUI session timeouts for a better user experience.
Illustra Thermal Stream 2 RGB (secondary) unstable at 720p MJPEG 30 fps. Avoid selecting this settings.	Use a lower MJPEG resolution if this setting is required
Illustra Thermal iAPI3 XML FaceDetection analytics events sometimes miss end event causing NVR to not trigger end Event.	Allow at least 5 seconds between entities walking into the scene
Illustra Thermal iAPI3 Video intelligence analytics events is not fully compliant with IAPI3 spec. For this release Video Intelligence Edge events is not supported for IAPI3 integrations.	None
Illustra Thermal ONVIF unable to upgrade via ONVIF	Upgrade camera via Web GUI.
Illustra Thermal IPT05-B29-BI03 will be set to 50HZ by default out of the box with max FPS of 25 – if 30 FPS, 60HZ frequency are required this can be changed via GUI	Change camera Frequency to 60HZ to achieve 30 FPS
Illustra Thermal - API3 Tricklestor/backfill not supported on this release.	Camera standalone SD recording can be used.
Illustra Thermal. Bit rate fluctuating to double bit rate much higher than its Max setting on CBR.	
Illustra Thermal iAPI3 commands not updating on camera and/or GUI or returning an error	
Illustra Thermal iAPI3 Image Source Sensor Rotation shows as supported but the camera does not have any software image rotation capabilities	Hardware is capable of full rotation for all types of mounting options.
Illustra Thermal GUI - Date and Time setting out of the box does not account for Automatic DST time changes.	Enable DST via GUI if desired
Illustra Thermal NVR integration only H265 not being recognised and streamed by NVR	

Illustra.S011.01.00.01.0509 External Release

<p>Illustra Thermal has limited functionality with the new Tyco Illustra mobile app. Enhancements will be offered in later releases.</p>	<p>Use camera GUI for configuration</p>
<p>Illustra Thermal GUI – Enabling DST during a period already in DST may apply an extra hour to clocks. Always check time accuracy after enabling/disabling.</p>	<p>Always check time accuracy after enabling/disabling DST</p>
<p>Illustra Thermal GUI - Firewall IP filtering doesn't currently work.</p>	<p>None</p>
<p>Illustra Thermal GUI - Video mask - when trying to clear saved mask, area does not clear until save is selected.</p>	<p>None</p>
<p>Illustra Thermal Baseline profile on camera GUI but only high/Main in iAPI3 commands.</p>	<p>None</p>

## Contact Information

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