Release Notes

Illustra Flex 1 & 3 Megapixel Box, Bullet and Minidome Series

Applicable Software 3.1.6	Product Data
Web-update-Ver. 3.1.6-20170912.opk Illustra ADCi600F-X002 Illustra ADCi800F-X002 Illustra ADCi600F-B521 Illustra ADCi800F-B521 Illustra ADCi600F-D021 Illustra ADCi600F-D111 Illustra ADCi800F-D021 Illustra ADCi800F-D111 Illustra ADCi600F-D021a Illustra ADCi600F-D111a Illustra ADCi600F-X002a Illustra ADCi800F-D021a	Visit the victor Video Management Systems section of – www.illustracameras.com to download datasheets and other documentation in PDF format.

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

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Release contents

This firmware release adds the following improvements:

- Addresses gSOAP security updates.

Note: To facilitate upgrading Illustra Flex firmware on multiple cameras on 01.39 firmware in batch mode using Illustra Connect, the upgradeUtilityForIllustraFlex.bat utility included in Package 2 must be used. From firmware 2.1.13 onwards, Illustra Connect can be used for single and multiple camera upgrades.

There are 2 upgrade packages available online:

- **Package 1**

Contains Firmware Only: `web-update-Ver. 3.1.6-20170912.opk.` This package can be used to upgrade cameras through the camera web interface. For more information, see Upgrade using the camera web interface.

- **Package 2**

Pre-requisite requirements include Illustra Connect, and WinZip or a similar utility.

Contains `IllustraFlexFirmwareUpgradeKit.zip which includes: web-update-Ver. 3.1.6-20170912.opk, UpgradeProcedureForIllustraFlex.doc, upgradeUtilityForIllustraFlex.bat, curl32.exe, license.txt.` This package can be used to upgrade multiple cameras through a DOS based Upgrade Utility Tool. Refer to the `Upgrade Script Procedure document` contained within Package 2.

VENVR and Exacq Server Edge Analytics Support on firmware 2.0.13 and higher

This table describes the support for VENVR and Exacq Server Edge on firmware 2.0.13 and higher.

Model	Edge Motion Alarms	Edge Motion Metadata	Edge Face Alarms	Edge Face Metadata	Edge Blur Alarms
ADCi600F-xxxx	Yes	No	No	No	No
ADCi800F-xxxx	Yes	No	No	No	No

Table 1 VENVR and Exacq Server Edge Analytics Support

Previous firmware releases

Illustra Flex 3.1.5

The Illustra Flex 3.1.5 firmware release has the following features:

- Fixed Motion Metadata Events stream which provides Edge alerts to VE NVR Server and Exacq Vision Server.

Illustra Flex 3.1.4

The Illustra Flex 3.1.4 firmware release has the following features:

- Enhancements to the DHCP feature. Three potential setups are described below:

  1. On initial camera startup, 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.
  2. If no connection is made to a DHCP server within 2 minutes, the camera goes to the default IP address 192.168.1.168, but continues to search for a DHCP address.
  3. If the camera is assigned a Static IP address prior to DHCP being enabled, the camera first reboots for approximately 30 seconds, and then it remains accessible at its Static IP until a connection is made to a DHCP server.

Illustra Flex 3.1.2

The Illustra Flex 3.1.2 firmware release has the following features:

- Enhancement – Multi-browser support : Firefox, Chrome, Internet Explorer 11
- New feature – Dynamic DNS

Illustra Flex 3.0.29

The Illustra Flex 3.0.29 firmware release has the following features:

- Enhancement – Flex camera now certified fully compatible with Genetec Security Center 5.4 SR3
- Enhancement – Support added to format 64 GB SD cards in the camera
- Enhancement – Support added for Chinese OSD
- Enhancement – Support added for model number discovery with UPnP

Illustra Flex 3.0.18

The Illustra Flex 3.0.18 firmware release has the following features:

- Enhancement – Implement keep-alive Time-out response for ONVIF Integration
- Enhancement – Update to Java implementation when saving motion regions

Illustra Flex 3.1.6

Illustra Flex 3.0.14

The Illustra Flex 3.0.14 firmware release has the following features:

- Support for additional camera models:
  Illustra ADCi600F-D021a
  Illustra ADCi600F-D111a
  Illustra ADCi600F-X002a
  Illustra ADCi800F-D021a

- Enhanced Security Features – See Quick Start Guide (QSG) and User Manual for full details

- Support for motion zones

IllustraFlex_2.0.13

The IllustraFlex_2.0.13 firmware release has the following features:

- Dual stream support for 3MP cameras – See Appendix B for stream configuration details.

- 802.1x Security

- HTTPS Protocol

- ONVIF v13.12 compliant

- DHCP enabled as factory default

- Subnet mask set to 0.0.0.0

- Compatible with McAfee Vulnerability Manager 7.5

- IP Filtering – IP Allow and Deny

- iAPI3 Compliant

IllustraFlex_01.39

This is the initial camera firmware release.

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Firmware upgrade procedure

As part of the Firmware upgrade procedure Illustra recommends users to refresh their browser cache.
Camera firmware must be downloaded from the Illustra website.
Package 1 contains the Firmware only which can be installed using the camera web interface.
Package 2 contains the Firmware and the Upgrade Utility Tool and can be used to upgrade multiple cameras.
Firmware upgrade using Illustra Connect is not supported in 1.39 firmware. Illustra Connect upgrades work with 2.1.13 firmware and later

Note:
Ensure your camera does not lose power during the firmware upgrade process.

Upgrading using Illustra Connect

Illustra Connect can only be used when the camera is set to HTTP Protocol with Port 80 from firmware 2.0.13 and above. Launch the camera web user interface. Click **Configuration.** Click **Network Settings**. Select **HTTP**. Select **Port 80,** and click **Save.**

Note:
The file type selection filter may need to be changed to **All Files**.

To upgrade the firmware using Illustra connect, complete the following steps:

1. Install and launch the Illustra Connect software utility.

2. Right-click the camera you want to upgrade and select **Upgrade Firmware**.

3. Select **Choose File** and select the firmware upgrade file on your system.

Upgrading using the camera web interface

To upgrade the firmware using the camera web interface, complete the following steps:

1. Using Internet Explorer, connect to the camera using the IP Address.

2. Log on to the camera web user interface with the user name/password **admin/admin.**

3. Select **System Settings** from the left side of the web user interface and select **firmware.**

4. Select **Browse** and navigate to the firmware file.

5. Select **Upload** and wait for the camera to reboot.

6. When the upgrade is complete, clear your internet browser cache to access the camera web user interface.

Upgrading using the Upgrade Utility Tool for Flex

Refer to the `Upgrade Script Procedure document` contained in Firmware Package 2 on the Illustra website.

Known limitations and issues

The table below highlights known limitations or issues against the Illustra Flex cameras 3.1.54 firmware:

Description	Suggested Work-Around
The Illustra Flex Camera Series does not support upgrades and downgrades using the Illustra Connect Tool from firmware version 1.39.	Upgrade the camera through the camera web interface or use the Upgrade Utility Tool.
IE11 is best used in Compatibility Mode	Use IE10 or below
When the slow shutter is not set to 'Off' the 1MP & 3MP cameras' FPS will fluctuate between 15-30 FPS. This is for all values under slow shutter.	Set slow shutter to **Off** to maintain a stable FPS.
After logging off the browser, when the camera is in Enhanced Security mode, there will be three Invalid Logins recorded in the System Log. This is because of the new authentication process.	No workaround
To enable **Alarm Out**, **Alarm In** must also be enabled.	Enable **Alarm In** as well as **Alarm Out**.
When the **Auto.MaxGain** is queried, the value returned is not equal to the set value.	No workaround
When motion detection is triggered, the camera is unable to determine which motion zone number has triggered.	No workaround
Under certain conditions, video oscillation can occur. See Table in Appendix A.	Avoid very low light conditions
In order to receive audio out, the user must refresh the browser after upgrading camera firmware	Refresh the browser after upgrading the firmware.

Table 2. Known limitations and issues

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Audio functions

Using the two-way audio function

Note: The two-way audio function is only active in the live view page using the web browser.

To use the two-way audio function, complete the following steps:

1. Ensure a speaker is connected to the Audio Out and a microphone is connected to the Audio In connectors on the camera.

2. Select **System Setting**.

3. Select **Audio.**

4. Enable the Audio In and Audio Out functions.

5. Adjust the audio level.

Accessing the two-way audio streams

To access the two-way audio streams from your computer, complete the following steps:

1. Ensure your computer is connected to a microphone and speaker.

2. Speak into your computer microphone and the people around the camera should hear your sound.

3. When people around the camera are talking to you, you should hear them from your computer's speaker

Using the one-way audio function

If you are using RTSP to access the camera streams, note that the RTSP supports only one-way audio from the camera to your computer. For more information, see section 3.2.2.2 RTSP of the User Guide.

Appendices

Appendix A

Under the following conditions oscillation may be observed:
During setup, when the camera has been factory defaulted and when OSD is enabled.

Table 3 contains the oscillation levels for different camera models.

Model	Oscillation levels
i600F-D111 – 1MP Indoor Dome	Cameras oscillate between D2N & N2D at 1.05 ~5.9 lux Levels in 15~20s intervals
i800F-D111 – 3MP Indoor Dome	Cameras oscillate between D2N & N2D at 1.05 ~5.9 lux Levels at 15~20s intervals
i600F-X011 – 1MP Box	Cameras oscillate between D2N & N2D at .4 & 5.8 Lux Level in 5s intervals.
i800F-X011 – 3MP Box	Cameras oscillate between D2N & N2D at .1 & 1.7 Lux Level in 15~20s intervals.

Table 3. Oscillation levels

Appendix B

Stream resolution combinations

1 Megapixel

Resolution	Single Stream	Dual Stream
1280x720	1280x720	1280x720, 1280x720
		1280x720, 800x600
		1280x720, 720x480
		1280x720, 704x480
		1280x720, 640x480
		1280x720, 640x360
		1280x720, 352x240

800x600	800x600	800x600, 800x600
		800x600, 720x480
		800x600, 704x480
		800x600, 640x480
		800x600, 640x360
		800x600, 352x240

720x480	720x480	720x480, 720x480
		720x480, 704x480
		720x480, 640x480
		720x480, 640x360
		720x480, 352x240

3 Megapixel

Resolution	Single Stream	Dual Stream
2048x1536	2048x1536	352x240

2304x1296	2304x1296	352x240

1920x1080	1920x1080	1920x1080, 720x480
		1920x1080, 704x480
		1920x1080, 640x480
		1920x1080, 640x360
		1920x1080, 352x240

1280x960	1280x960	1280x960, 1280x720
		1280x960, 800x600
		1280x960, 720x480
		1280x960, 704x480
		1280x960, 640x480
		1280x960, 640x360
		1280x960, 352x240

1280x720	1280x720	1280x720, 1280x720
		1280x720, 800x600
		1280x720, 720x480
		1280x720, 704x480
		1280x720, 640x480
		1280x720, 640x360
		1280x720, 352x240

800x600	800x600	800x600, 800x600
		800x600, 720x480
		800x600, 704x480
		800x600, 640x480

		800x600, 640x360
		800x600, 352x240

720x480	720x480	720x480, 720x480
		720x480, 704x480
		720x480, 640x480
		720x480, 640x360
		720x480, 352x240

Contact information

If you have any questions regarding these release notes, please contact Tyco Security Products Technical Services at:

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