

Lumenera Infinity 3-3 URC Capture Interface Version 9.2

Image-Pro Premier Family Application

Release Notes, April 2017

Media Cybernetics Lumenera Infinity 3-3 URC Capture Interface Installation

The Lumenera Infinity 3-3 URC Capture Interface installs the necessary modules for your imaging application.

Installation Notes and Warnings:

The capture interface supports the Windows 7 32- and 64-bit and Windows 10 32- and 64-bit operating systems.

Don't install both Lumenera Infinity 3-3 URC Capture Interface 9 and Lumenera Capture Interface 7 simultaneously into the 32-bit version of Image-Pro Premier or Insight. To switch between the two capture interfaces on a 32-bit Image-Pro Premier or Insight installation, you must *uninstall* the current capture interface to install the other version. If using a 64-bit OS, you may install Lumenera Infinity 3-3 URC Capture Interface 9 into a 64-bit Premier installation and Lumenera Capture Interface 7 into a 32-bit Premier installation.

Also don't install both Lumenera Infinity 3-3 URC Capture Interface 9 and Lumenera Capture Interface 9 version 9.1.1 or earlier simultaneously into any version of Image-Pro Premier or Insight. To switch between the two capture interfaces on an Image-Pro Premier or Insight installation, you must *uninstall* the current capture interface to install the other version.

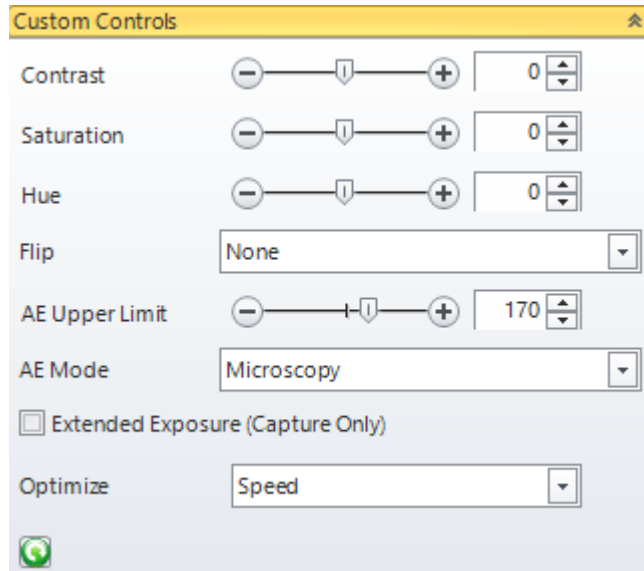
Installation Instructions:

1. Start *Explorer* and locate the downloaded file or the CD-ROM path where the installation setup program is located.
2. Run the setup program from that location.
3. After the program installation is complete, please install the *INFINITY Driver Package* from *Lumenera*, if you do not already have it installed.
4. If applicable, restart the system.
5. Mount the *Lumenera* camera and connect the cables to an unused USB 3.0 port on your system, depending on your camera specifications. Also be sure to connect the power adapter for full USB 3.0 support. Windows will detect the camera and install the proper driver.

Additional Information: Please read this carefully.

Custom Controls

There are 8 controls located in the **Custom Controls** subpanel on the Settings tab of the Capture panel, shown here:



These controls are located in the center of the **Settings** panel:

- **Contrast** adjusts the image contrast
- **Saturation** adjusts the image saturation.
- **Hue** adjusts the image hue.
- **Flip** changes the horizontal or vertical orientation of the image from the camera.
- **AE Upper Limit** sets the upper limit of the dynamic threshold for the daylight auto exposure mode.
- **AE Mode** sets the auto exposure mode. The available modes are microscopy and daylight mode.
- **Extended exposure (Capture Only)** uses the still snapshot mode from the camera to achieve longer exposure times.
- **Optimize** uses the multiple tap mode of the camera. The *Quality* setting reads the camera CCD in one pass. The *Speed* setting uses the quad tap mode.

New and improved features in this release:

- Stream to disk support.
- Improvements to microscopy auto exposure algorithm.
- Bayer interpolation default setting is now higher quality for both preview and capture.
- Multiple camera support.
- Optimize (Tap) default setting is now Speed.

Resolved issues in this release:

- Fixed ROI location not always correct when flip image is enabled.
- Fixed corrupt last line when using ROI on live image.
- Fixed Contrast custom control values above zero quickly reaching maximum contrast.
- Fixed Contrast custom control not applied properly in some cases.
- Fixed Exposure, Gain, Offset, and Gamma control changing preview when only capture should be changed.
- Fix single snap capture with live preview on freezing live preview.

The Lumenara Infinity 3-3 URC Capture Interface v. 9.2 supports these features:

- Snapshot mode for extended exposure time support
- Tap modes for improved speed performance.
- Live preview on any bit depth (no longer constrained by 8 or 24 bit depth).
- Single acquire.
- Instant single acquire. You do not need to stop your live preview, as in previous versions. If your acquire and preview settings match, the acquisition occurs instantaneously.
- Record movies:
 - Instant streaming to record a movie.
 - Record by time duration and time interval.
 - Record by time duration as fast as possible.
- Adjustments to the following settings:
 - Exposure
 - Gain
 - Offset
 - Binning

- Bit depth
 - Adjust exposure for binning.
- ROI selection
- White balance support
 - ROI selection for white balance calculation
 - Manual adjustment for white balance
- Auto naming for captured images.
- Save to File options,
- Date/Time Stamp options,
- Save and Open Settings.
- Multiple camera connected support.
- Capture scripting