



**Gradient Lens Corporation®** 

# Getting Started with the LTC

The Luxxor® LTC can display images on a computer running Windows, or directly on an HDMI display. It can also save images to a microSD card (32GB MAX, not included).

#### **Connections**

The Luxxor® LTC has two connectors on its end – one for HDMI and one for USB & Power.



# Viewing images on an HDMI display

Connect the included HDMI cable to the camera and to the display.

Connect the included USB cable to the camera and to the included power supply.

Plug the power supply into a 100-240V, 50/60Hz AC power outlet. A few seconds later an image will appear. If an image does not appear, push the power button on the side of the camera to turn the camera on.

While in HDMI mode camera settings are displayed and adjusted onscreen using the buttons on the side of the camera.



Note\*\*\* Button functionality only works while using the LTC in HDMI mode.

#### **Button Functions**

The **Power** Button turns the camera on or off.

The *Mode* button switches between live and captured image display.

The *Menu* button toggles the onscreen menu, and steps through two main menu windows.

The **OK/Capture** button captures an image and stores it on the Micro SD card, if installed. While using the onscreen menu, this button is used to confirm a selection.

The **Selector** button cycles through menu options or settings while the onscreen menu is displayed. When in normal viewing mode, this button toggles the onscreen display of certain settings such as exposure, capture resolution, etc.



# Viewing images on a Windows computer

Download and install the Video ToolBox Pro software from this link:

#### www.zarbeco.us/fas/download/vtb2155.exe

If the installer asks for a password, use "windows 10".

Before connecting the camera to the computer, remove any microSD card, if installed. Inserting a microSD card puts the LTC into drive access mode so that files on the card may be viewed and copied by the computer. Video ToolBox Pro can save images on your computer, but will not run with a microSD card installed.

Connect the camera. Video ToolBox Pro will not run without a camera connected. Connect the included USB cable between the camera and the computer. Ensure that the HDMI cable is **NOT** connected. The computer should automatically recognize the camera. Start Video ToolBox Pro from the Windows start menu or the desktop icon. The help button in the software provides more information on the program features.

Note: If the Video ToolBox Pro image freezes due to an accidental disconnection or push of the Power button on the camera (not because you clicked on the image Freeze button at the top of the screen), then you must restart Video ToolBox Pro with the camera on and cable connected.

## **Video Toolbox Quick Tips**

Video ToolBox can resize the image to fill the window or the screen. If the image is taking up a small space in the window (see image below) then you will want to zoom the image to fill a larger portion of the window. Using the Zoom button, change the zoom setting to 2X or larger.

## Capture an image

Select the *Camera* icon an the top left of the ribbon, then selct the yellow *Capture Circle* to capture an image. These images can be saved to any folder you select.

## Capture a video

Select the *Film* (video) icon at the top left of the ribbon, then select the yelow *Capture Circle* to begin recording a video. Click the red *Freeze* 

square to stop recording. Click the green *Live Arrow* to return to a live image. These videos can be saved to any folder you select.

## **Learning More About Video ToolBox**

To learn more about Video ToolBox see the Video ToolBox Help file, accessed through the Help button on the main window

## **Video Toolbox Troubleshooting Tips**

If the software says, "device not registered"? This happens when the software didn't detect the camera. Follow these steps to resolve the connection issue:

- 1. Update to the latest version of the software. If you have an old version, it needs to be uninstalled before the new version is installed.
- 2. Make sure the camera is connected to the computer via USB only.
- 3. Remove any SD cards. These can interfere with how the computer reads the camera.
- 4. Pause or turn off any internal web cam and then try restarting the software.

Note\*\*\* If you are having issues with the software, or for security reasons cannot install the software, the LTC camera will work with most Windows based "camera" programs. To use the native camera app already installed in your Windows PC, laptop or tablet, connect the LTC camera using the USB cable only and open the "Camera" app.

If you have a built in web camera you may need to select the USB camera to view your LTC.

# Connecting a Borescope

To connect the camera to your borescope, pull back the grooved ring on the video coupler and insert the borescope's eyecup into the coupler lens as far as it will go. Then release the grooved ring.



# Sales and Technical Support

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#### Service

To obtain service for a *Luxxor® LTC* Video Camera, please contact your reseller or Gradient Lens Corporation directly. If the problem cannot be corrected over the phone, a Return Materials Authorization number (RMA) will be issued along with instructions for shipment to an authorized service center.

## Warranty

Gradient Lens Corporation warrants that all *Luxxor*® Cameras and accessories will be free of defects in materials and workmanship for one year from the date of first retail purchase. Video and lighting products have manufacturer's warranties for one year. This warranty does not cover breakage or failure due to tampering, misuse, neglect, accidents, improper installation, modification, shipping, or to improper maintenance, service, and cleaning procedures. This warranty is also void if the instrument is not used in accordance with the manufacturer recommendations or if required service is performed by anyone other than a Gradient Lens Corporation authorized agent. NO OTHER EXPRESS OR IMPLIED WARRANTY IS GIVEN.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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