

Thank you for choosing a MityCAM-C8000 from Critical Link.

The MityCAM-C8000 Hardware Setup Guide will introduce you to the hardware components of your camera. Once completed, you should be able to follow the MityCAM-C8000 MityViewer Quick Start Guide (included), which will guide you through your first image acquisition using the MityCAM and the MityViewer software application from Critical Link on a PC. Each camera features either a dual Camera Link interface, for use with PC based frame grabber cards, or Gigabit Ethernet, for use with MityViewer, for optimal throughput and complete functionality.

Provided Hardware:

- MityCAM-C8000 Camera
 - CMOSIS CMV8000 sensor board
 - Cyclone V based CPU platform
 - Acquisition electronics
 - Dual Camera Link or Gigabit Ethernet Interface
 - USB 2.0 Image Capture Capabilities (MityViewer Application)
 - Housing for C-mount lens
- USB Cable
- Ethernet Cable (Gigabit Ethernet Models only)
- IO Connector breakout cable
- 100V-240V AC/DC 12V 1.2A (or similar) power adapter and connector
- Standard Lens and EOS to C-mount mounting adapter

Printed Documents:

- MityCAM-C8000 Hardware Setup Guide (this document)
- MityCAM-C8000 MityViewer Quick Start Guide

Software and Documentation:

Available at <https://support.criticallink.com/redmine/projects/mityvision/> (account required for downloads)

- MityViewer PC (Windows) software
- MityCAM-C8000 DataSheet
- MityCAM-C8000 Firmware
- MityCAM-C8000 Camera Link Interface
- MityCAM-C8000 User Manual
- MityCAM-C8000 Hardware Setup Guide
- MityCAM-C8000 Mityviewer Quick Start Guide
- Supported Framegrabbers CMV8000

Additional Hardware (not provided):

- Laptop / PC to host the MityViewer software or Camera Link frame grabber

Hardware Setup



Figure 1 – MityCAM-C8000 Camera Link (Left) and Gigabit Ethernet (Right)

- 1) Ensure that power to the AC/DC adapter is “off” prior to connecting it to the camera.
- 2) Insert the DC (4-pin) power connector into the “Power” connector on the back panel of the MityCAM-C8000 camera. (Identifier #1)



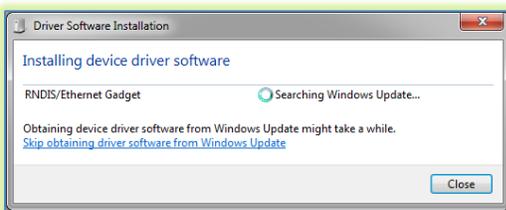
- 3) Note that there is an indicator light that can be seen through the fan/fan-grill.
- 4) Insert the USB cable into the Mini B type connector. (Identifier #2)

- 5) Thread supplied lens (included lens may vary) into front plate assembly; outlined with red below.



- 6) (Optionally) You can connect the MityCAM-C8000 camera through the Camera Link or Gigabit Ethernet connectors (Identifier #3). Steps 7 through 18 of this document are for USB image acquisition support only. Please consult the “MityCAM-C8000 Camera Link Interface Document” or “MityViewer Quick Start Guide” (Gigabit Ethernet) for further details.

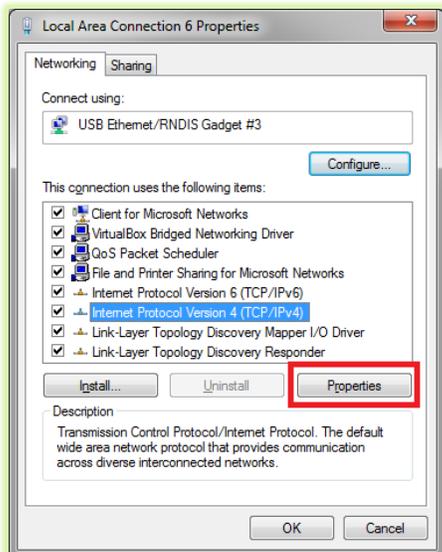
- 7) Connect the USB cable to a PC, RNDIS drivers will automatically be installed through Windows update on the PC if necessary. Drivers may be required for Windows XP.
- 8) Record Kit S/N (Identifier #4). This will be used later in the “MityViewer” application when connecting to the camera.
- 9) Plug the AC/DC power into an outlet. The fan will turn on immediately followed by a green status LED that can be seen through the fan grill.
- 10) The following steps were done with Win 7, but Win XP is similar.
- 11) Your PC should detect the USB RNDIS device (camera) and begin installing/downloading the driver.



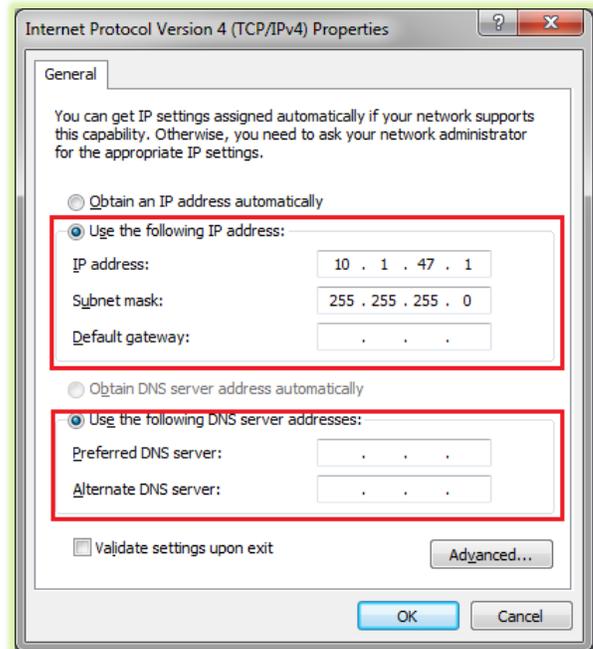
- 12) Open the Network Connections dialog; it may be found by selecting Control Panel -> Network and Internet -> Network Connections.
- 13) Select and ‘right-click’ the “USB Ethernet/RNDIS Gadget #X” icon (underlined in red) and then select “Properties” from the pop-up menu.



- 14) Select “Internet Protocol Version 4 (TCP/IPv4)” and then press the “Properties” button.



- 15) Enable static IP for the USB by NIC by setting the following parameters:
 - a. Select “Use the following IP address”
 - b. Enter IP address: 10.1.47.1
 - c. Enter subnet mask 255.255.255.0
 - d. Leave Default Gateway blank
 - e. Select “Use the following DNS server addresses” radio button and leave blank



- 16) The USB RNDIS device is now configured for use with the MityCAM-C8000. Note that you can connect to the camera using SSH and SCP protocols. The User Name is “root” and there is no password by default.
- 17) Note that the “I/O” connector (Identifier #5) is currently not used, but a flying lead assembly is available separately; please contact your Critical Link account representative for details.
- 18) Please continue on to the “MityCAM-C8000 MityViewer Quick Start Guide” to setup the software for your first image acquisition.

Thank you!

For more details visit
www.CriticalLink.com



MityCAM-C8000

Hardware Setup Guide



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