Micro-Image Capture® 8
Installation Instructions & User Guide

Software installation: Micro-Image Capture Software

1. Load Micro-Image Capture software CD onto host PC. Auto Run should start driver/software application. If not, browse CD and click on the MIC8 Software folder and click on the MicroImageCaptureSetup.exe icon.

2. Follow the setup dialog boxes and complete the installation.
Software Installation: USB HID Footswitch Software

1. Browse Installation CD and copy “HID Footswitch Software” folder. Paste this folder onto the host PC’s “Program Files” or “Documents” folder.

2. Follow illustration instructions below:

Instructions for installing HID Scythe Footswitch

1. Copy HID Footswitch folder from installation disc
2. Paste HID Footswitch folder onto you PC documents folder
3. Plug in the HID Footswitch to open USB port
4. Open HID Footswitch folder and click on HID Keyboard icon
5. When HID Footswitch GUI opens, insure the input key in grey box is Ctrl|Q|
6. Click “Save”, then O.K., then Exit
7. The HID Footswitch is ready for use with the Micro-Image Capture 8 system
The HID USB footswitch is compatible with WXP through W8 and is a rugged quality made device designed to provide reliable service for at least 1 million cycles. Use this footswitch to activate image capture when using your Micro-Image Capture 8 scanner or alternately, Cntrl-Q on the host pc keyboard for instant capture of displayed image.

*Double Footswitch may be included with your MIC8*

**Software Installation: *Optional - Direct Show & Twain Driver***

Install Twain & Direct Show Drivers only if you wish to use a third party scanning software to acquire images using the MIC8. Open “MIC8 Twain & DShow Drivers” folder and install desired software.

Follow the installation dialog boxes and complete the installation. The Twain and DirectShow drivers are not stand alone software packages. You will not see icons for them on your desktop or in the programs folder. Twain and Dshow allow access to the MIC8 via 3rd party software.
Hardware Installation: *USB 3.0 Inateck PCI-e card*

**Features**

- SuperSpeed USB 3.0 supports transfer rates of up to 5Gbps - The actual transmission speed is limited by the setting of the device connected.
- One Step Update your Windows Computer to USB 3.0 Easily with PCI Express to USB3.0 Controller Adapter Card; 1 USB 3.0 20-pin Connector (expand another two USB 3.0 ports).
- Backwards compatible with USB 2.0 and 1.1 devices;
- Filtering Unit with Solid Capacitors offer a Reliable and Secure Connectivity, Fits in any PCI Express x1, x2, x4, x8 or x16 Socket, Compliant with PCI Express Base Specification 2.0.

The Micro-Image Capture 8 is a USB 3.0 ultra-high resolution imaging device that requires a USB 3.0 connection to provide optimum performance and reliability. If the host PC already has a USB 3.0 port you do not need to install the Inateck card (USB 3.0 ports are differentiated from USB 2.0 by their blue port color).

Contents of Inateck box illustrated below:

Install Inateck USB 3.0 PCI-e card as per instruction manual or watch Inateck YouTube video @ http://www.inateck.com/video-reviews/5
Chapter 1: Introduction

1.1 Product Introduction
Super-Speed USB 3.0 interface is the next revolution in I/O interconnect standards that will deliver the bandwidth and features required by PCs, consumer electronics and communications devices. With 10 times faster throughput than USB 2.0 standard and backward compatible with current USB device features, USB 3.0 interface will be the trend of IT technology.

This board is a Super-Speed USB 3.0 PCI Express card. It is compliant with the PCI Express Generation 2 specification for host PC system. It works up to 5 Gbps for data transfer when connecting to USB 3.0 compliant peripherals, while maintaining compatibility with existing USB peripheral devices.

This board supports USB 3.0 High-Speed device and backward compatible with current USB 2.0 High-Speed and USB 1.1 Full-Speed device. It is an ideal choice for external storage devices, MP3 players, external DVD Writer, Card Readers, digital cameras, webcams, networking, video devices, and all other USB devices.

1.2 Features
- Fully compliant with PCI Express Base Specification Revision 2.0
- Single-lane (x1) PCI Express throughput rates up to 5 Gbps
- Compliant with Universal Serial Bus 3.0 specification Revision 1.0
- Supports simultaneous operation of multiple USB 3.0, USB 2.0 and USB 1.1 devices
- Supports the following speed data rates as follows:
  - Low-speed (1.5Mbps)
  - Full-speed (12Mbps)
  - High-speed (480Mbps)
  - Super-speed (5Gbps)
- Compliant with Intra's Extensible Host Controller Interface (xHCl) Specification Revision 0.96
- Built-in 4-pin power connector for receiving extra power supply from system
- Hot-swapping feature allows you to connect / disconnect devices without powering down the system
- Support Windows® XP/Vista/7/8 (32/64 bit)

1.3 System Requirements
- Windows® XP/Vista/7/8 (32/64 bit)
- One available PCI Express slot (Recommend PCI Express 2.0)

1.4 Package Contents
- 1 x USB 3.0 PCI Express Card
- 1 x Driver CD
- 1 x User Manual
- 1 x SATA to 4 pin Molex Power Converter
- 1 x 15 Pin to 2 x 15 Pin SATA Power Cable

Note:
1. Contents may vary depending on country/market
2. If your PC only has 4 pin power cable, please use SATA to 4 pin Molex Power Converter.
3. If 15 pin SATA cable is not available in your PC, please use 15 Pin to 2 x 15 Pin SATA Power Cable.

Chapter 2: Getting Started
2.1 Hardware Installation
1. Turn off the power to your computer.
2. Unplug the power cord and remove your computer's cover.
3. Remove the slot bracket from an available PCIe slot.
4. To install the card, carefully align the card’s bus connector with the selected PCIe slot on the motherboard. Push the board down firmly.
5. Replace the slot bracket's holding screw to secure the card.
6. Replace the computer cover and reconnect the power cord.

2.2 Driver Installation

Please make sure the hardware is installed before installing the driver.
If you cannot read the contents of the disk, please go to the following address to download the driver according to the product model: [http://www.inateck.com/support](http://www.inateck.com/support)
1. Insert the provided CD into your disk drive.
2. Run the " Autorun.exe", click the "Drivers", and select the appropriate driver version.

3. Click "OK" and then "Next" to continue.
4. Please read and accept the license agreement, and then click "Yes" to continue.

5. Select the driver installation path, and then click "Next" to continue.
6. Click "Install" to begin installing the driver, and wait for a moment.

7. Click "Finish" to end the driver installations steps.
After driver installation is complete, you must restart your computer.

Note: We do not provide USB 3.0 driver for Mac and Linux OSs.

2.3 Hardware Verify

1. Click on the "Device Manager" tab in the Windows Control Panel.
   Start > Control Panel > Device Manager

2.4 Driver Uninstall

1. Click on the "Programs and Features" tab in the Windows Control Panel.
   Start > Control Panel > Programs and Features
Chapter 3: Troubleshooting Tips

1. Please shutdown your computer and move the card to another available slot then re-install USB 3.0 driver.
2. Please point on this device then right-click on the mouse. Selecting “Update Driver” to renew USB driver.
3. This exclamation point usually means there is a resource conflict between this card and another card in your system. Please move the card to another available slot. Restart your computer. Windows will re-configure itself and re-assign resources. Check your device manager again.

• A message is displayed stating that not enough power can be given to the connected device. Make sure to plug 4-pin power cable on board to provide efficient power to USB devices. But the better way is using device self-power to satisfy it.

• Is it possible to connect current USB 1.1 or 2.0 devices to the USB 3.0 PCI Express card? Yes it works. Device will not obtain the USB 3.0 speed, but USB 2.0/1.1.

• If card and devices connected to the computer do not seem to be working properly, please perform below basic troubleshooting steps:
  1. Check that all cables are correct and securely connected.
  2. Make sure USB device’s power is turned on.
  3. Make sure the devices are getting enough power they require.
  4. Make sure there is no problem with the card installation.

• Computer failed to start after inserting the USB 3.0 PCI Express card. Turn off the computer, remove the USB 3.0 PCI Express Card, and try to restart the computer. If the computer starts successfully, it means that the card has not been inserted into the PCI Express slot correctly. Please clean golden figure by rubber firstly, then change another PCI Express slot.

• How to deal with there is a yellow exclamation point on controller?
Hardware Installation: *Micro-Image Capture® 8*

1. Open MIC8 box and unpack the contents carefully.

2. Contents include: MIC8 base unit, MIC8 imaging head assembly with USB 3.0 cable, aluminum riser post w/ O-ring (riser may also include black spacer), USB 2.0 extension cable for base unit, USB 3.0 PCI-e card, USB footswitch, user manual and Installation CD.

3. Install riser post on base unit and tighten by hand (no tools required). Note red on/off power button that illuminates the light source on the base unit.
4. Mount MIC8 Imaging head assembly onto riser post and align with *lower silver ring etching on riser* for 24x to 54x use. Align imaging head assembly with *upper silver etching on riser* if working with large format images from 7x to 19x. Route USB 3.0 cable and secure to cable clip at back of the unit with some slack as illustrated, allowing for vertical movement of the imaging head.

Manual zoom is achieved by vertically adjusting the imager closer or further from the microform. Use black vertical lift knob to move imager up and down. *This knob will also assist with fine focus* once lens focus ring is adjusted to bring image into rough focus.

Mechanical focus is achieved by adjusting the lens focus ring located under the imaging head.

Riser etching. If unit is equipped with spacer, it will be fixed to the riser to indicate lower position.
Using the Micro-Image Capture® 8 Software:

1. Click on the Micro-Image Capture desktop icon to open the program.

2. The MIC8 GUI will open and the toolbar on the left side of the screen will be used to make image adjustments.
3. Click on the U3CMOS14MPMIC8 under Camera List to activate the MIC8 Imaging System.  Note: If error message displays, lower the Frame Rate to correct and try again. Lowering the frame rate does not lower the resolution, it will still capture and view at 18MP. Keep live and snap resolutions at 4096*3286 (18MP).

![Camera List Diagram](image)

4. Click to open the “Color/Gray” tool and choose “Gray” since microfilm is not normally in color. Close tool by clicking on the arrow.

![Color/Gray Tool](image)

5. Click to open the “Misc” tool and check the “Negative” box. This will reverse the image when using Negative Microfilm. If you are using Positive Microfilm you would not check the box. If you use both negative and positive film, create a profile for each that will be saved under the “Parameters” tool for quick and easy loading of all adjustments made for that profile. Close toolbar by clicking on up arrow.

![Misc Tool](image)
6. Click to open the “Flip” tool and check desired boxes to orient the image correctly on the PC screen. If using microfiche you can also insert the fiche differently into the fiche handler to achieve proper orientation without digital flip. Close toolbar when done by clicking the arrow.

7. Frame Rate, Power Frequency and White Balance are not required to be adjusted and should be left as per the software default.

8. The “Sampling” tool defaults to “skip” and should be left that way.

9. Click to open the Exposure & Gain and Color Adjustment toolbars. Uncheck the “Auto Exposure”.

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[Image of Flip tool]

[Image of Frame Rate, Power Frequency, and White Balance settings]

[Image of Sampling tool]

[Image of Exposure & Gain and Color Adjustment settings]
10. Hue and Saturation are normally used in Color mode but will still affect Gray Mode image. Adjust Exposure Time, Gain, Brightness, Contrast & Gamma to match “factory sample image” as included with your MIC8 system as a starting point.

11. Optically zoom up and focus the image using the MIC8 imager stage and lens focus ring in order to see some sort of an image.

*The initial image may be dark or have poor contrast at first (like the illustration below), but you will be able to adjust the image to achieve a clear and workable result.*

Adjusting Exposure Time, Brightness, Contrast and Gamma will be the primary controls to achieve the best image quality in this negative mode. Next, the negative image will be switched to a positive image and further adjustments may be necessary.
By checking the “negative” box under the Misc tab, the image will be changed from a negative to a positive. By adjusting Exposure Time, Gain & Gamma a user can quickly achieve a very nice legible image. Turning “Contrast” up and adjusting “Brightness” as needed will achieve the sharpest image (assuming mechanical focus of lens and stage knob are at optimum focus).

Click on Image Select tool to draw a capture area box. This will be a visible area of capture. Depressing the footswitch or keying Ctrl-Q now will capture image in the selected area.
Where the image is saved, what file type it is saved as, if it will be automatically named by the software or if you want to be prompted to enter a name are all under the “Options” tab on the top toolbar, where you can select these “preferences”. You can also bring this window up by the shortcut “Shift-P”.
12. We recommended that the destination folder be opened and placed to the right of the Micro-Image Capture GUI so that both windows are showing at the same time. Using this method will allow capture thumbnails to be viewed and monitored as they are taken.

13. If you have checked the “Show the rename dialog” at the preferences window, each time an image is captured you will get to name the image before it is saved.
14. It is simple to select single images from destination folder window or “Ctrl-click” to select a batch of images. Once selected you can send them to a printer, convert them to Adobe PDF or share them as needed. If you double click any image thumbnail in the destination folder, it will open in the Windows viewer.

15. Increase the image workspace by closing the Side Bar tools when you are done with image adjustments.
16. Be sure to SAVE all of the image adjustments made by clicking on the “Parameters” tab and then clicking on Save. You will name the profile and it will always be available to load instantly by going back to Parameters and loading the profile.

17. Closing the camera tool bar by clicking the red X, and choosing “Fit to width” on the image scale drop down provides a nice large workspace for images.
**Note:** It is recommended that the viewing monitor be large enough to accommodate the microfilm image. If the microfilm images on your fiche or film were originally 8.5 x 11 portrait, a monitor that has at least 11” of vertical viewing height is recommended. If viewing engineering size images (originally larger than 11x17”) it is recommended that a 27” monitor or larger be used, especially if they are C, D and E size drawings.

The Micro-Image Capture 8 is an ultra-high resolution 18MP USB 3.0 device, built for many years of service. The factory warranty is an advanced exchange, 1 year, repair or replace warranty. Additional years of warranty are available at time of purchase or prior to the end of the manufacturer’s warranty.

Please contact technical support with any questions or if you need assistance @ 866-754-8885 x3 or email support@micro-imagecapture.com