

Eyemetric Tray Configuration Guide

Using UFCOM driver (USB-Serial) with FM408 / M430 scanner

With HID interface for the M430 / FM408

Using FTDI driver (USB-Serial) with M280 and either FM408 or M430 HID

The Eyemetric Tray app has been designed to use 2 scanners simultaneously, in one of the following configurations:

The Newland M430 scanner can work using USB COM port emulation mode using the UFCOM serial port driver installed on the PC, and simultaneously use the FM408 in HID mode (no driver required for HID Mode)

OR

The Newland FM408 scanner can work using USB COM port emulation mode using the UFCOM serial port driver installed on the PC, and simultaneously use the M430 in HID mode (no driver required for HID Mode)

OR

The Eseek M280 using USB COM Port emulation mode using FTDI serial port driver installed on the PC and simultaneously use either the M430 or FM408 in HID mode (No driver required for HID Mode)

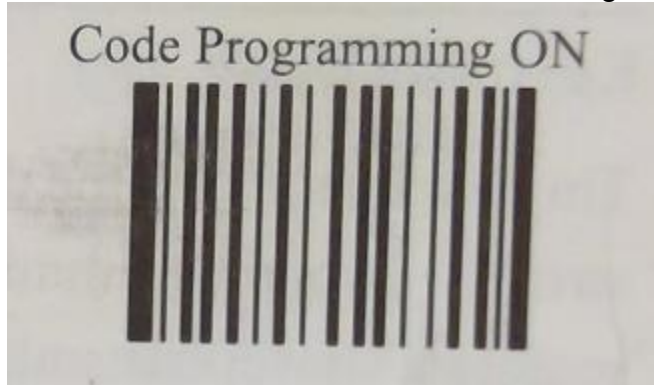
One of the Newland scanners should remain in HID mode as programmed by TokenWorks, the other will be programmed to: USB COM Port emulation and requires the UFCOM driver to be installed on the PC

Step1: Install the UFCOM driver from Newland onto your PC:

<https://www.newland-id.com/en/services/software-drivers>

Step2: with a properly registered M430 or FM408 scanner from TokenWorks, plug the scanner into the PC's Usb port and use the barcode programming codes from Newland. These codes were obtained from the NLS-FM420 Quick Start Guide

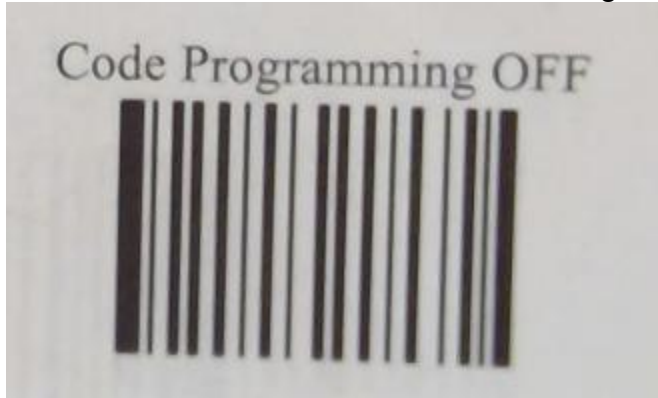
1. Scan the barcode called "Code Programming On"



2. Scan the barcode called "Select USB COM Port Emulation"

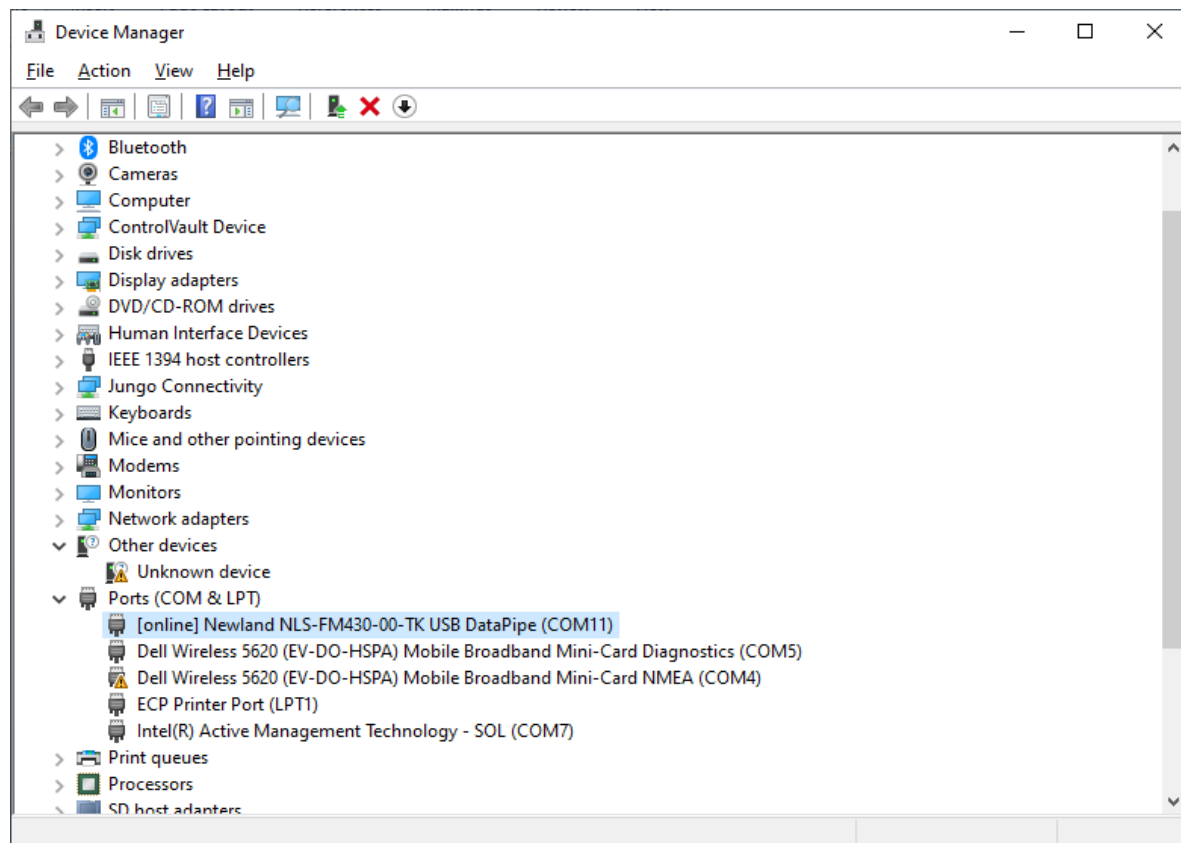


3. Scan the barcode called “Code Programming Off”



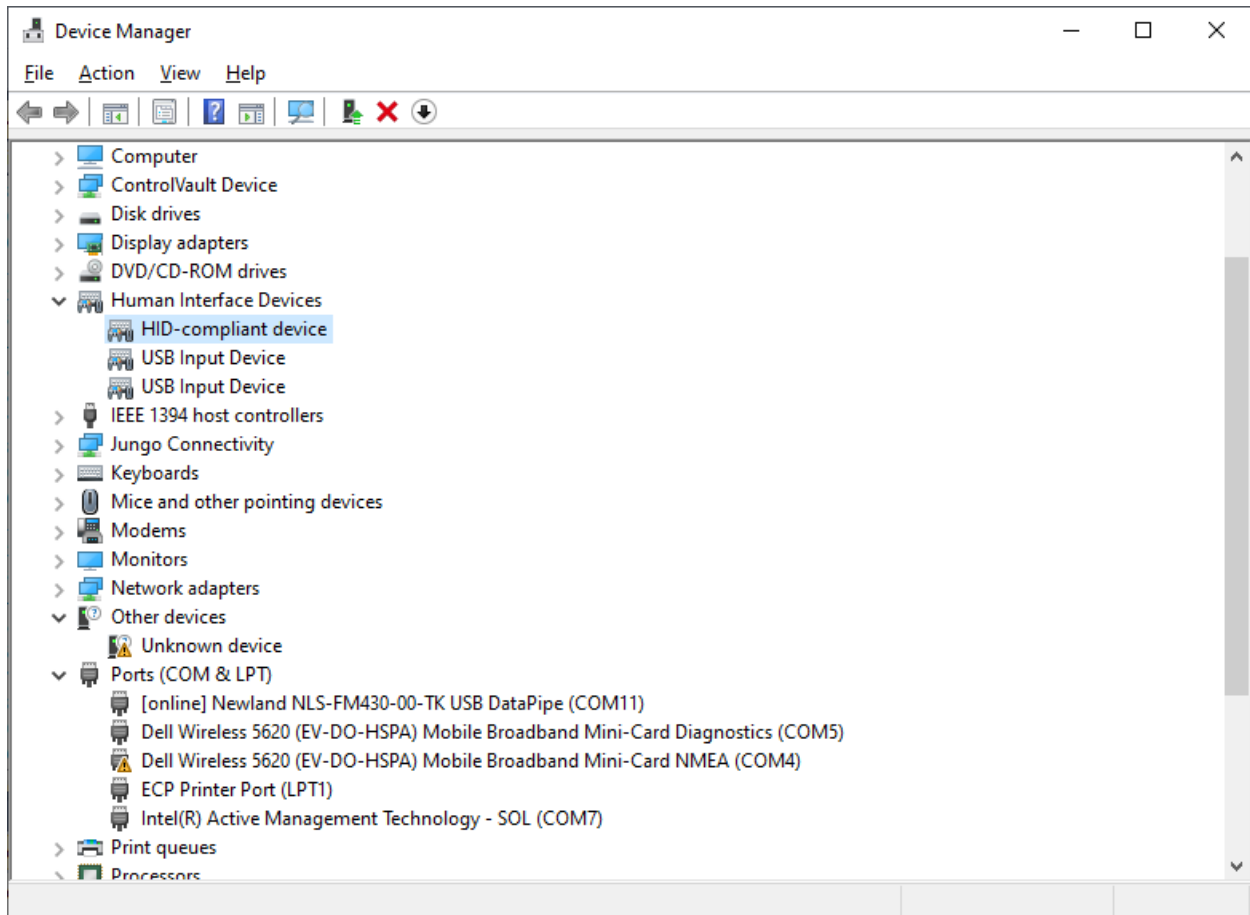
NOTE: If your device will not read the barcodes off the screen, it is suggested that you print this document out on paper, and reduce the image size of the individual barcodes, prior to printing.

Step3: open device manager to verify your PC is recognizing the scanner properly:



We can find the M430 or FM408 under Ports (COM & LPT) as COM11
(Your Com number may differ)

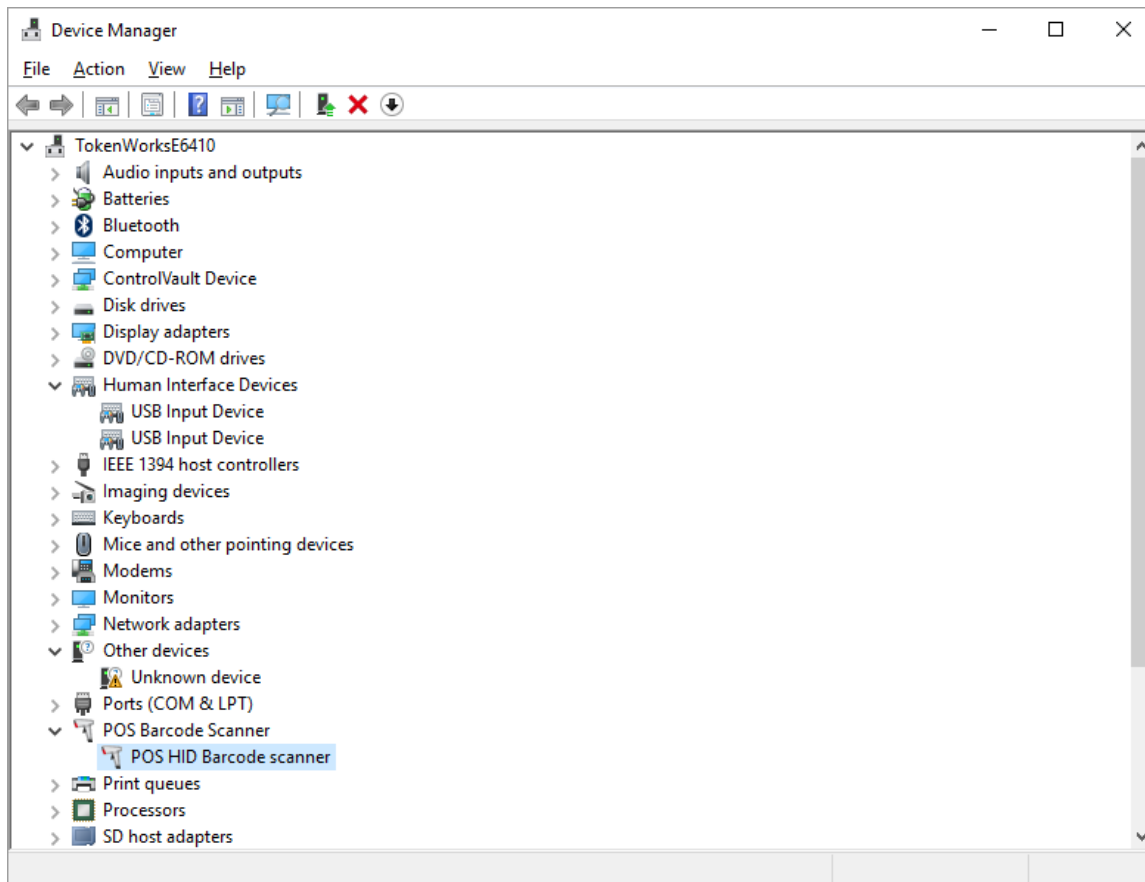
When both the COM port scanner (FM430) and the HID scanner (FM408) are connected, the device manager should appear like this:



The HID-Compliant device is the FM408, the FM-430 is found under Port (COM & LPT)

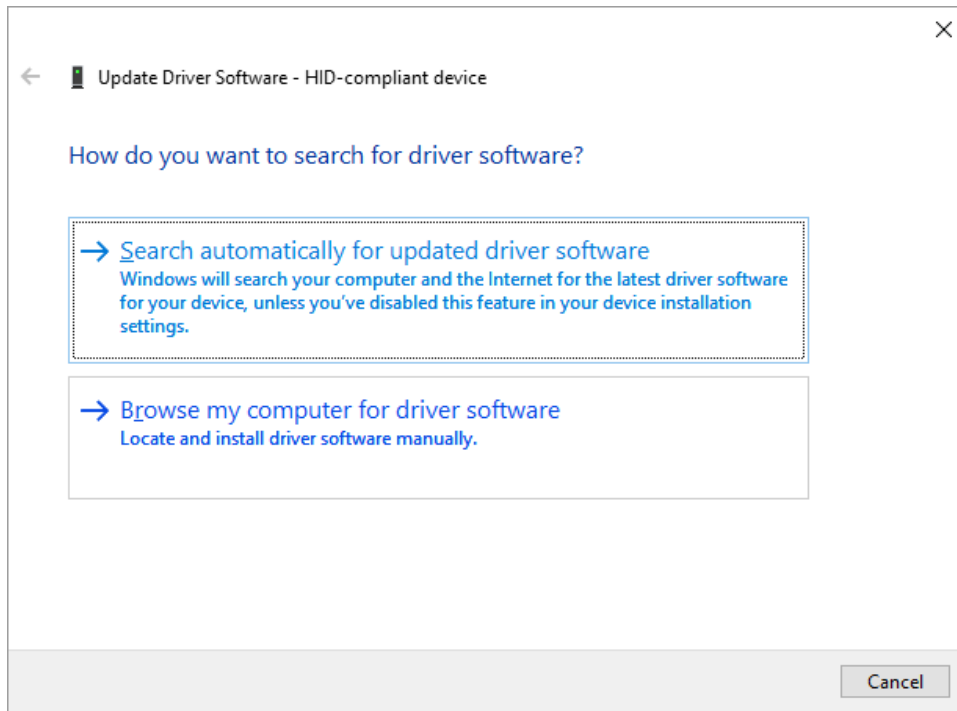
If you are using the Eseek M280, then it will be found under Port (COM & LPT)

IF you do not see an HID-Compliant Device, then you probably have a POS scanner entry, in this case you must change the update the driver on the POS Scanner.

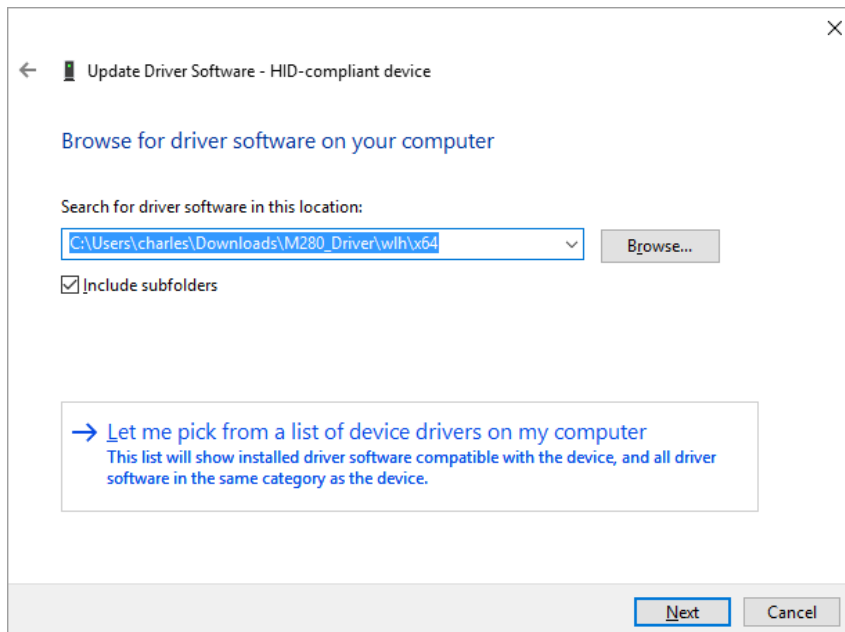


If you see the POS Barcode entry for your HID scanner, follow these instructions to switch to the HID-Compliant device:

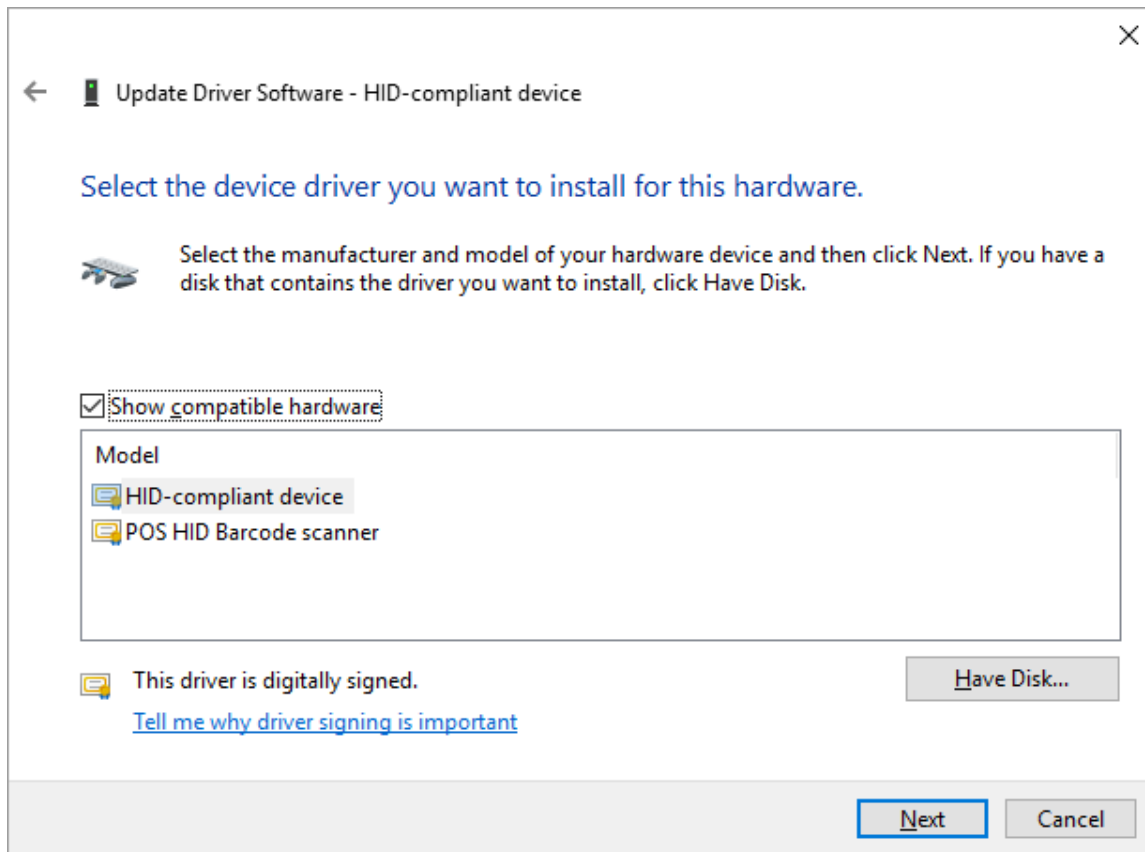
First: right click the POS Barcode icon in Device manager and select: Update driver



Next: select Browse my computer for driver software



Then: Select Let me pick...

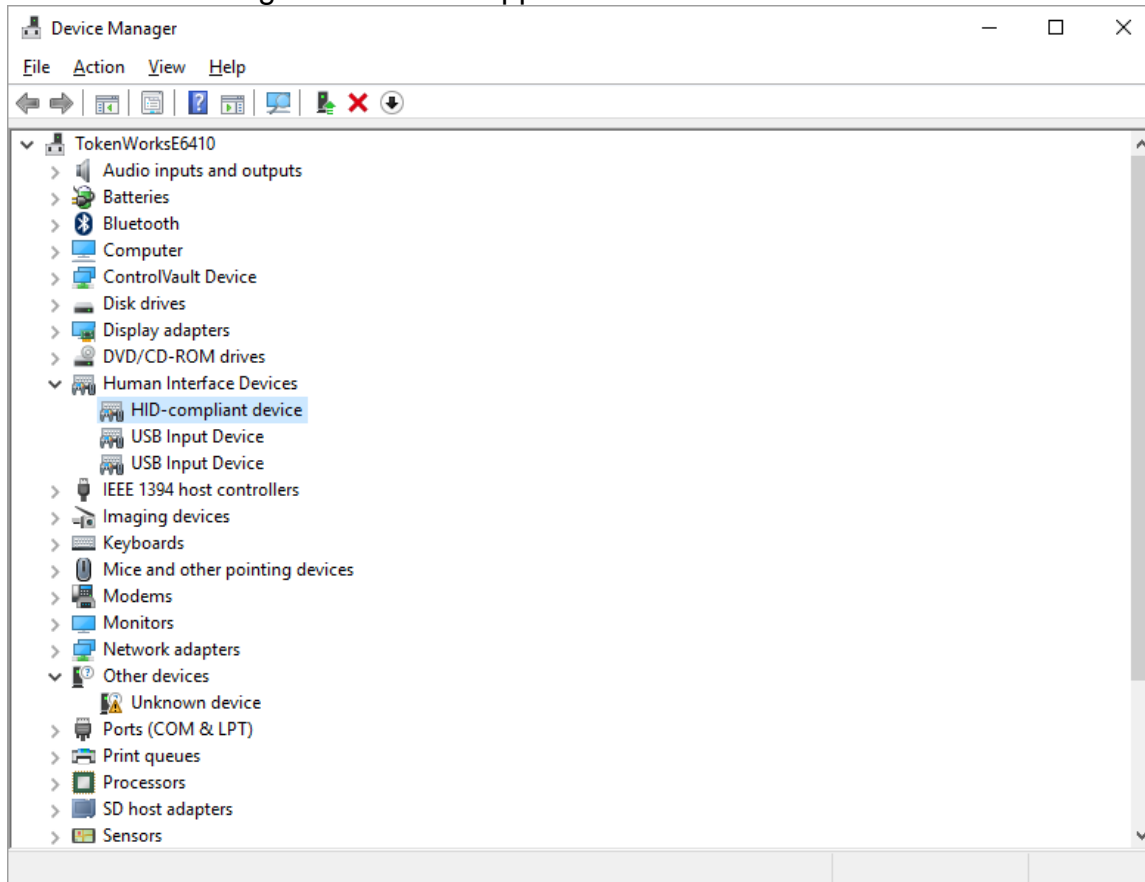


Finally: select the HID-compliant device.

The OS will sometime switch the HID driver back to then POS mode, this can occur when the scanner is un-plugged and then plugged back while the PC is powered on, or it may occur on powering up the PC. Currently there is no explanation for this random behavior.

If you notice that the Newland scanner is not behaving properly, or is behaving intermittently, then check the Device Manager to verify that the scanner is recognized as an HID-Compliant device. Look under the Human Interface Devices node.

The Device Manager should now appear as:



Now we see the HID-Compliant Device, instead of the POS-Barcode entry.

M280

The Eseek M280 will require using the FTDI Usb-Com driver

When using the M280, the Newland scanners will have to be in HID mode as describe in the Appendix. The Eseek M280 uses the FTDI USB-Com driver which must be installed on the PC prior to using the M280. The M280 must be configured to use the scanner locked DLLs.

The FTDI drive can be found at the following URL:

<https://ftdichip.com/drivers/vcp-drivers/>

Installation

The installer is a self extracting archive called:
EyemetricTrayApp Installer.exe

The installer will request Admin privileges due to the installation path.

It will install the program to the following path:
C:\Program Files (x86)\Eyemetric\Eyemetric\TrayApp

The name of the executable is: EyemetricTray.exe version 2.0.0.96

The installer will create Eyemetric icons in the start menu and on the desktop.

NOTE:

The application requires users to run as Admin on the first time, to install the certificates for WCF into the Registry.

VS Project

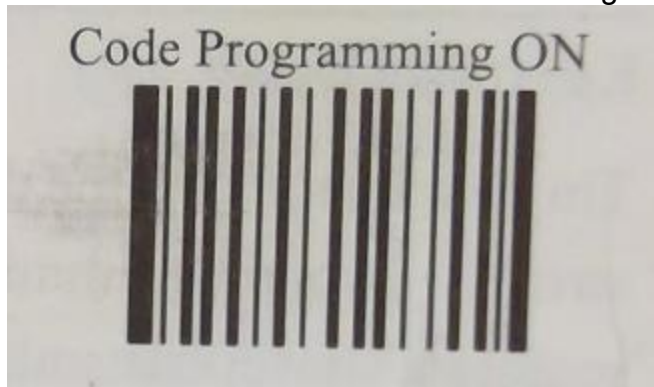
The Visual Studio project files are stored in the archive called:

KPL.WindowsApp_3.zip

Appendix

To restore the scanner back to its original configuration as an HID -Compliant scanner you will need to scan the following code:

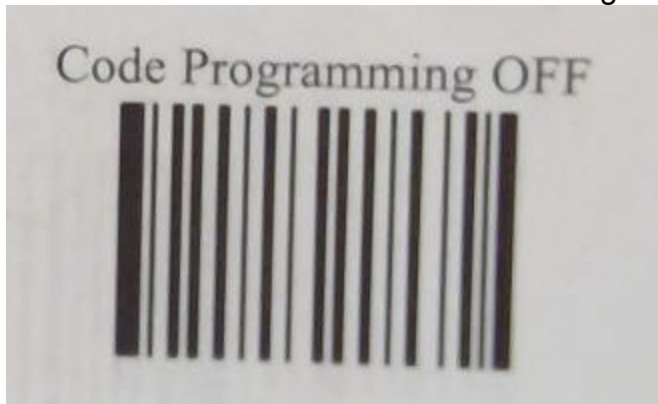
1. Scan the barcode called "Code Programming On"



2. Scan the barcode called Hid-Pos



3. Scan the barcode called "Code Programming Off"



Verify the scanner is recognized as "HID Compliant" by using the Device Manager

End of Document