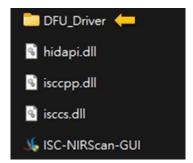
## **Application Note**

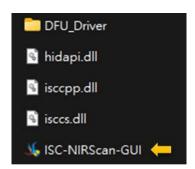
## First Time to Update TIVA Firmware

If this is your first time updating TIVA firmware, please follow the instructions below:

1 Download ISC WinForms GUI (<a href="https://github.com/InnoSpectra/ISC-NIRScan-GUI">https://github.com/InnoSpectra/ISC-NIRScan-GUI</a>), unzip the software package, which contains the DFU driver, as shown below.



2 Execute ISC WinForms GUI.



- 3 Connect your device via USB, power on the device, and the device and GUI are ready.
- 4 Go to Utility page and select TIVA firmware.
- 5 Press "Update" to enter bootloader mode, and the PC will check the driver.
- 6 Open the "Device Manager" of the PC as shown in Figure A-1.
- 7 If USB driver automatic installation is failed, then there will be an unknown device named "Tiva Device Firmware Update" on the PC's device manager shown in Figure A-1.
- 8 Right click on the "Tiva Device Firmware Update" and select "Update Driver."
- 9 Browse my computer for driver software, select the DFU driver folder and search

for drivers in this location.

- 10 Update the driver.
- 11 After updating the driver, the GUI and device need to be restarted before the update process can be performed again.

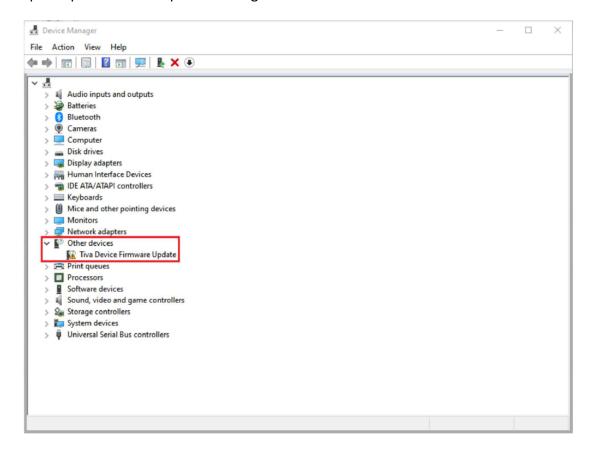


Figure A-1 Device Manager

## Tiva Firmware Update

The TIVA firmware update interface is shown in the Figure A-2 below. To update the TIVA firmware, the first step is to click the "Browse" button to search for the TIVA firmware file (e.g. ISC-NIRScan-Tiva-Release-v2.6.3.bin). Then, click the "Update" button. The firmware will be flashed in TIVA's internal memory and a progress bar will indicate the update process. If the TIVA firmware update fails, the corresponding error message will be displayed. Please share screenshots with us.

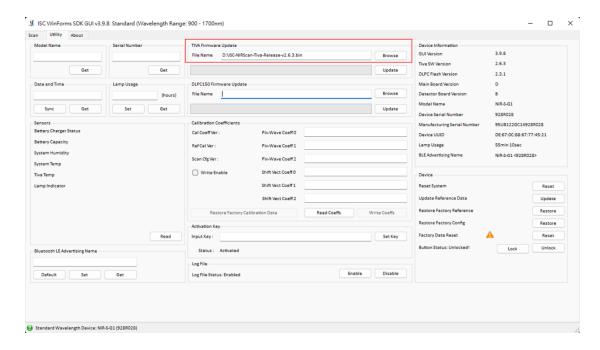


Figure A-2 TIVA Firmware Update