

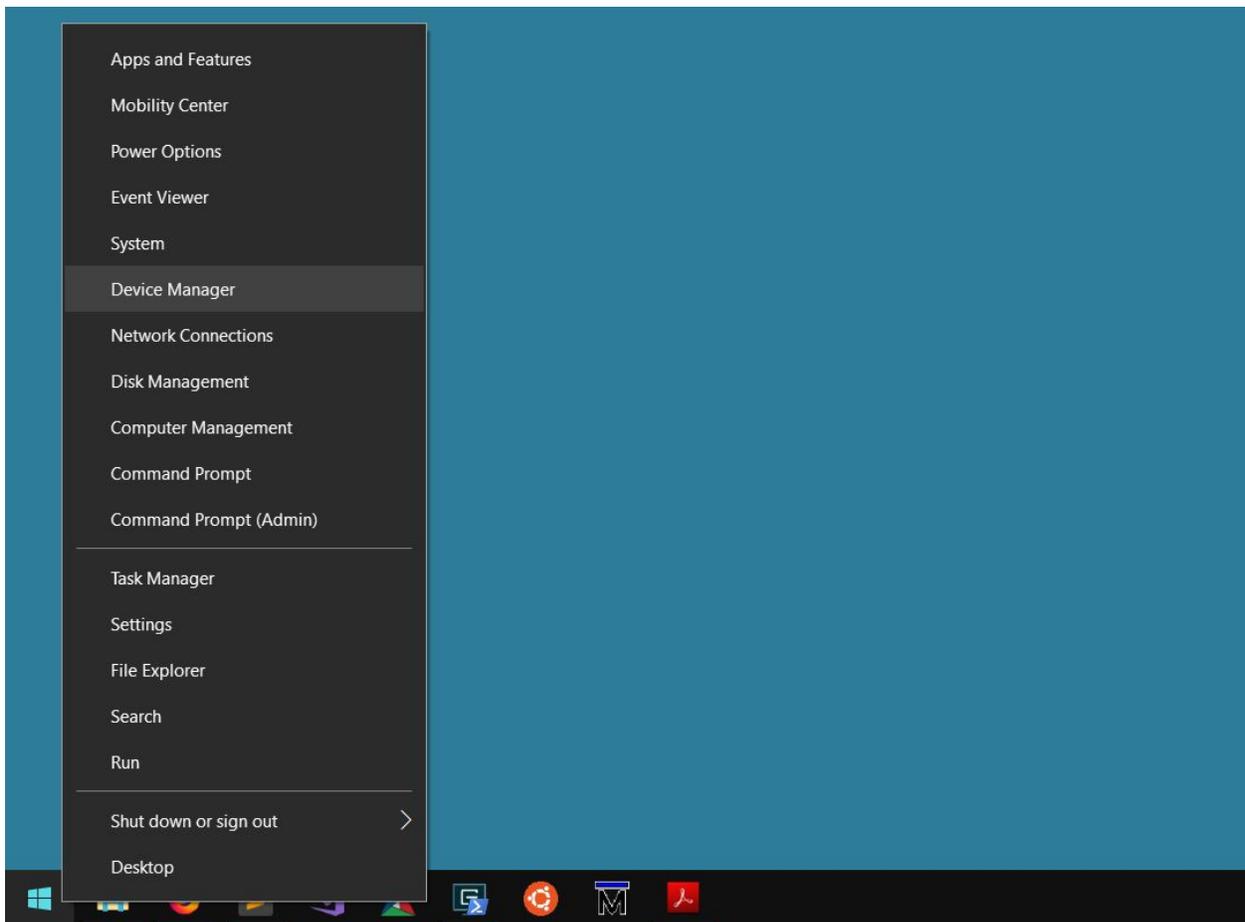
# Driver Installation Instructions

In this document, you will find the driver installation instructions for the Sunny Mars camera. There are three different sets of instructions, one for each of the supported operating systems. These include **Windows 10** (x86 and x64), **Windows 7** (x86 and x64), and **Linux** (x64).

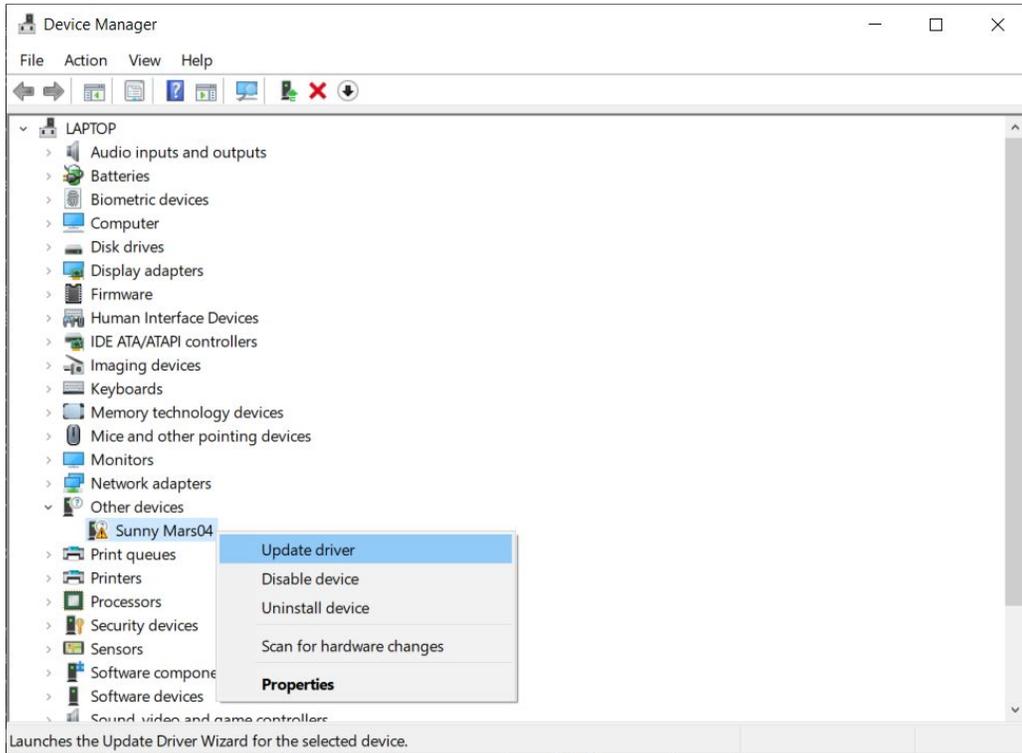
After concluding the driver installation process, the device should function normally. It is recommended to build and run the included simpleDepthRead sample program to verify the device is functioning properly.

## Windows 10:

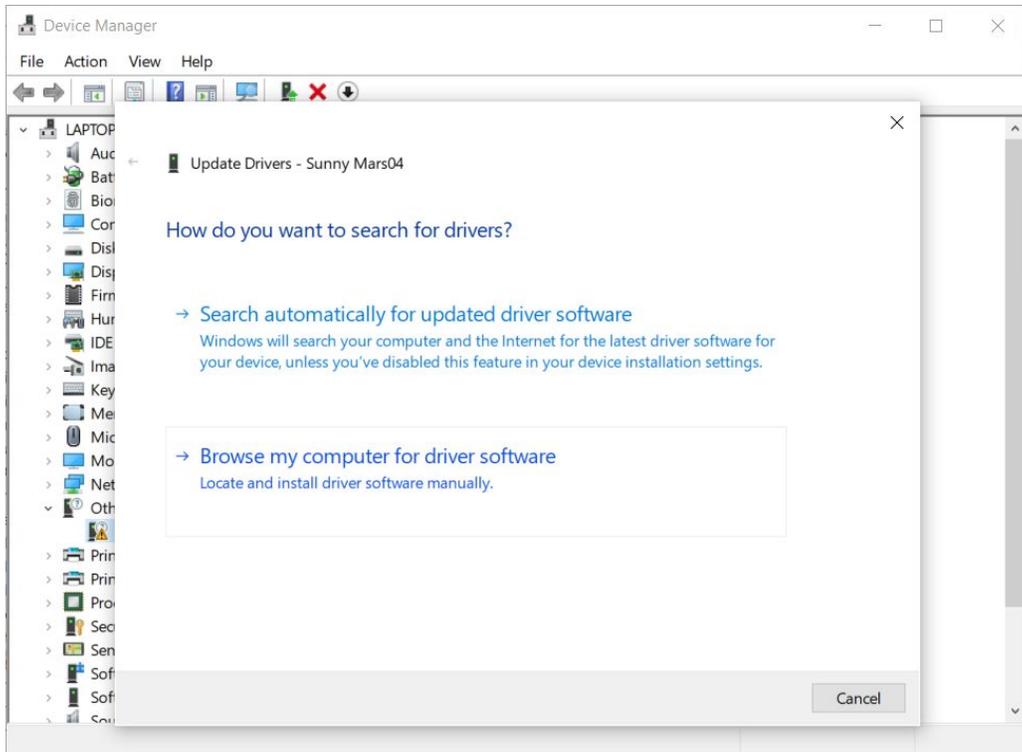
Right click on **Start**, and click **Device Manager**:



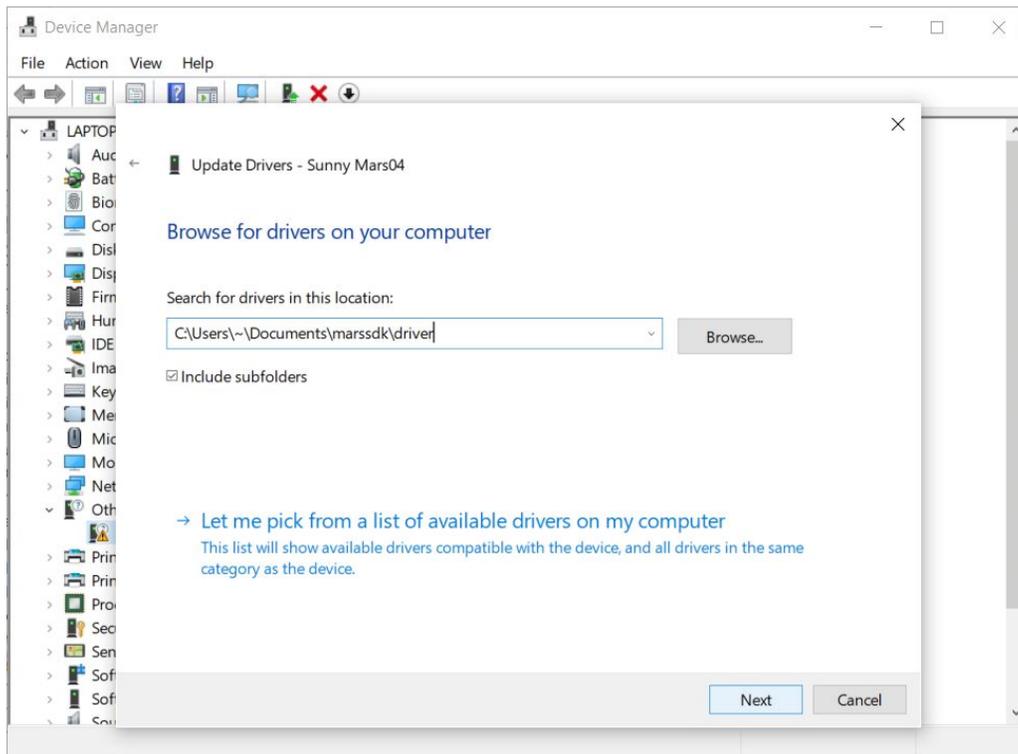
Under **Other Devices**, right click **Sunny Mars04** and click **Update Driver**:



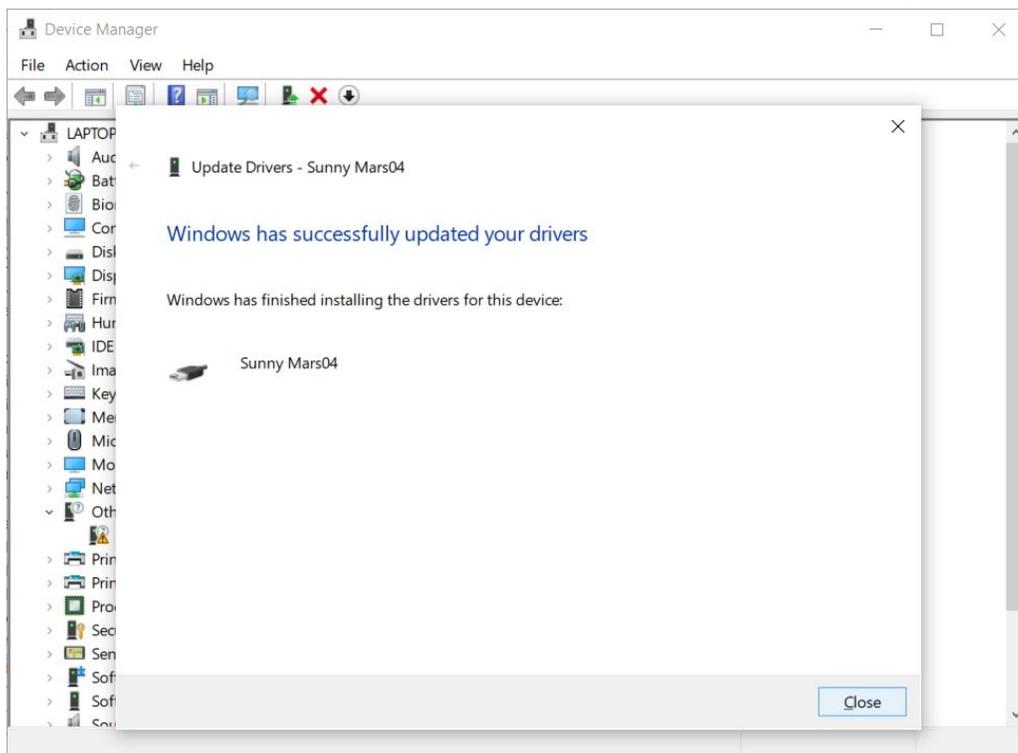
Click **Browse my computer for driver software**:



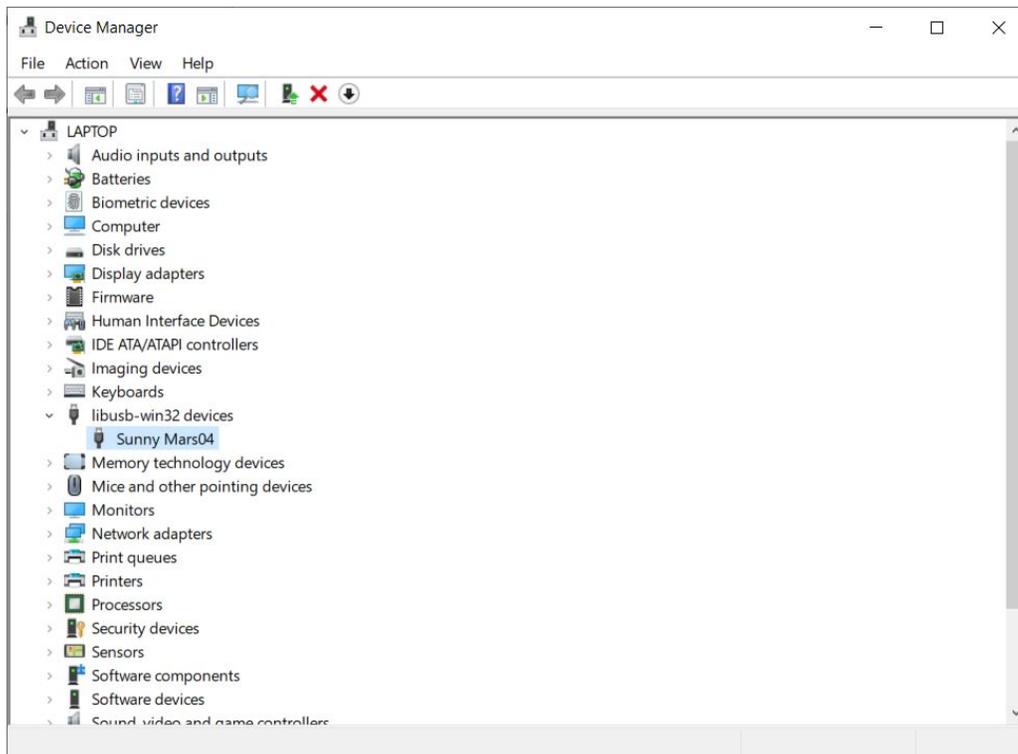
Click **Browse...** and choose the location of the MarsSDK **driver** folder. Ensure the option to **Include subfolders** is selected, and click **Next**:



The drivers will be installed, and the window can be closed by clicking **Close**:



Replug the device, and ensure it is listed as **Sunny Mars04** under **libusb-win32 devices**:



## Windows 7:

Despite still functioning and being an operating system known for its strong compatibility and the availability of third party software, Windows 7 has reached the end of its mainstream support from Microsoft. For this reason, it is recommended to upgrade to Windows 10 where there are strong technical and security updates. Much of the popular software once available for Windows 7 has been updated to support Windows 10, and may have been discontinued for Windows 7.

The process for installing the driver in Device Manager on Windows 7 is exactly the same as on Windows 10. Please follow the instructions above.

## Linux:

Most Linux distributions come with libusb preinstalled, which is used for the USB device driver. We recommend using the latest stable release of Ubuntu as your operating system thanks to its popularity and support by third party software.

Check if libusb is installed by opening the **Terminal** and running **apt-cache policy libusb-1.0.\***:

```
File Edit View Search Terminal Help
cooper@laptop:~$ apt-cache policy libusb-1.0*
libusb-1.0-0:
  Installed: 2:1.0.21-2
  Candidate: 2:1.0.21-2
  Version table:
*** 2:1.0.21-2 500
    500 http://ca.archive.ubuntu.com/ubuntu bionic/main amd64 Packages
    100 /var/lib/dpkg/status
libusb-1.0-0-dev:
  Installed: 2:1.0.21-2
  Candidate: 2:1.0.21-2
  Version table:
*** 2:1.0.21-2 500
    500 http://ca.archive.ubuntu.com/ubuntu bionic/main amd64 Packages
    100 /var/lib/dpkg/status
libusb-1.0-doc:
  Installed: 2:1.0.21-2
  Candidate: 2:1.0.21-2
  Version table:
*** 2:1.0.21-2 500
    500 http://ca.archive.ubuntu.com/ubuntu bionic/main amd64 Packages
    500 http://ca.archive.ubuntu.com/ubuntu bionic/main i386 Packages
    100 /var/lib/dpkg/status
cooper@laptop:~$ |
```

If libusb is not listed, run **sudo apt-get install libusb-1.0-0-dev** to install it:

```
File Edit View Search Terminal Help
cooper@laptop:~$ sudo apt-get install libusb-1.0-0-dev
```

Replug the device, and run **lsusb**. The device should be listed as **ID 23dd:0001**:

```
File Edit View Search Terminal Help
cooper@laptop:~$ lsusb
Bus 002 Device 002: ID 23dd:0001
Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 001 Device 002: ID 06cb:009a Synaptics, Inc.
Bus 001 Device 004: ID 8087:0aaa Intel Corp.
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
cooper@laptop:~$ |
```