

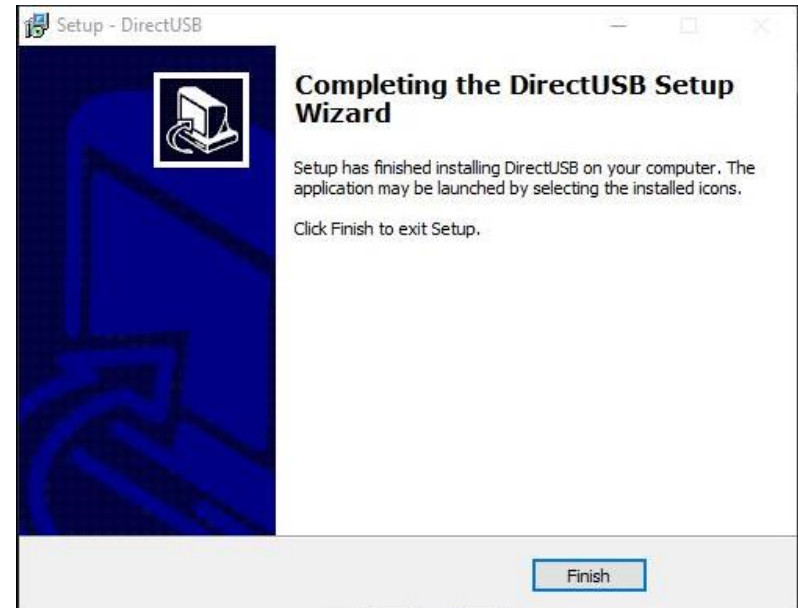
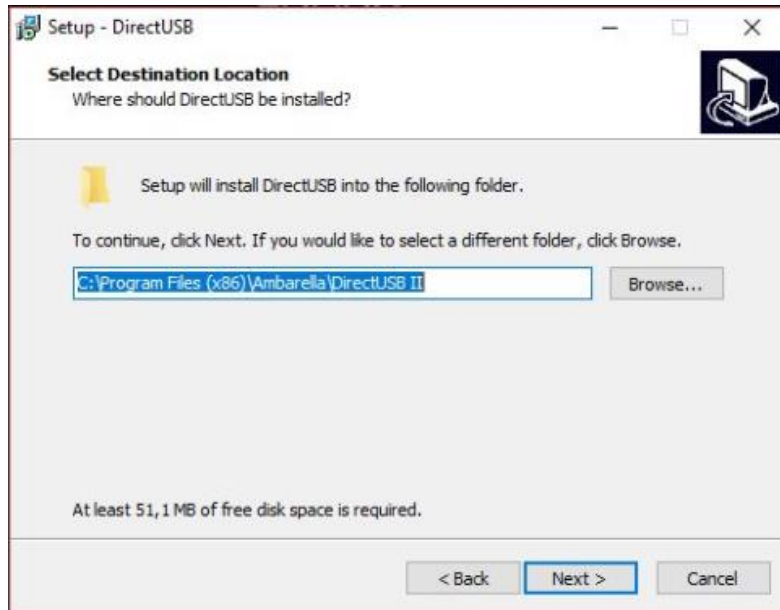
# LAMAX X10 Taurus

How to update firmware on LAMAX X10  
Camera from version 1.0 [ver1.0]

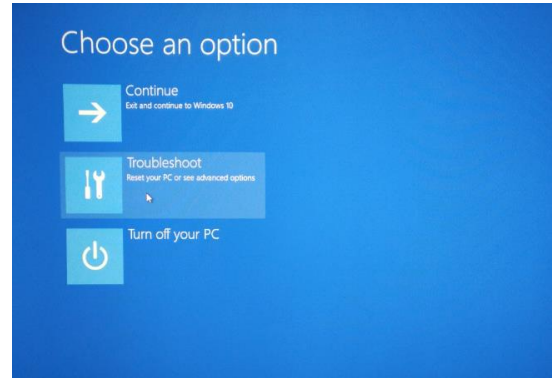
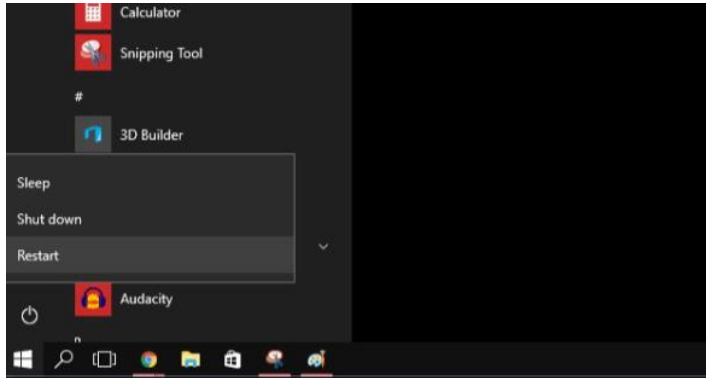
**Windows 10**  
**32/64 bit**



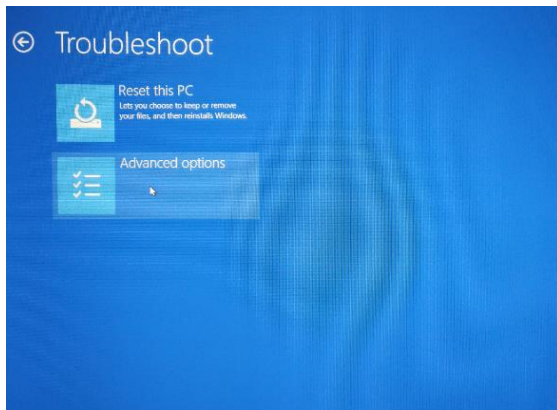
1. Install DirectUSB
2. Proceed through the installation process until it's completed



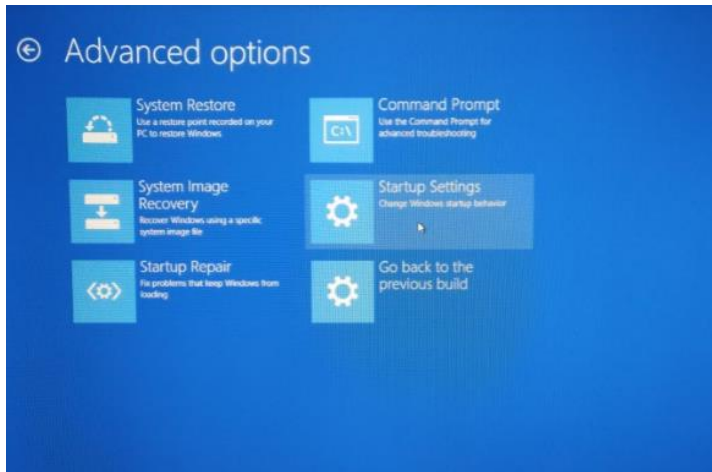
3. Choose to restart the computer. Before clicking “Restart”, hold the “Shift” key down until a blue screen with three options appears. Select the “Troubleshoot” option.



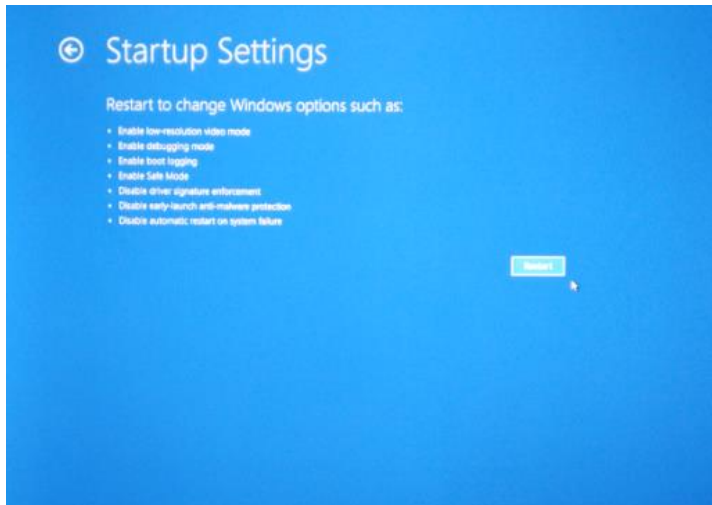
4. Now select “Advanced options”



5. In “Advanced options” choose “Startup Settings”



6. Click on the “Restart” button



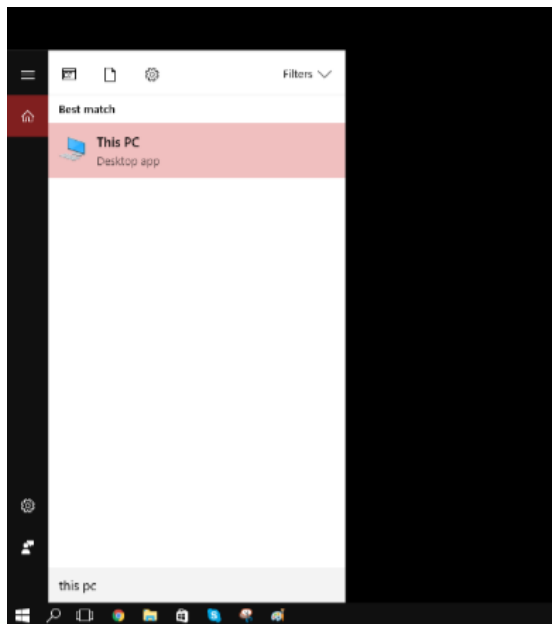
7. After restarting, another blue screen appears.

Choose option “7) Disable driver signature enforcement” by pressing the “7” key on your keyboard.

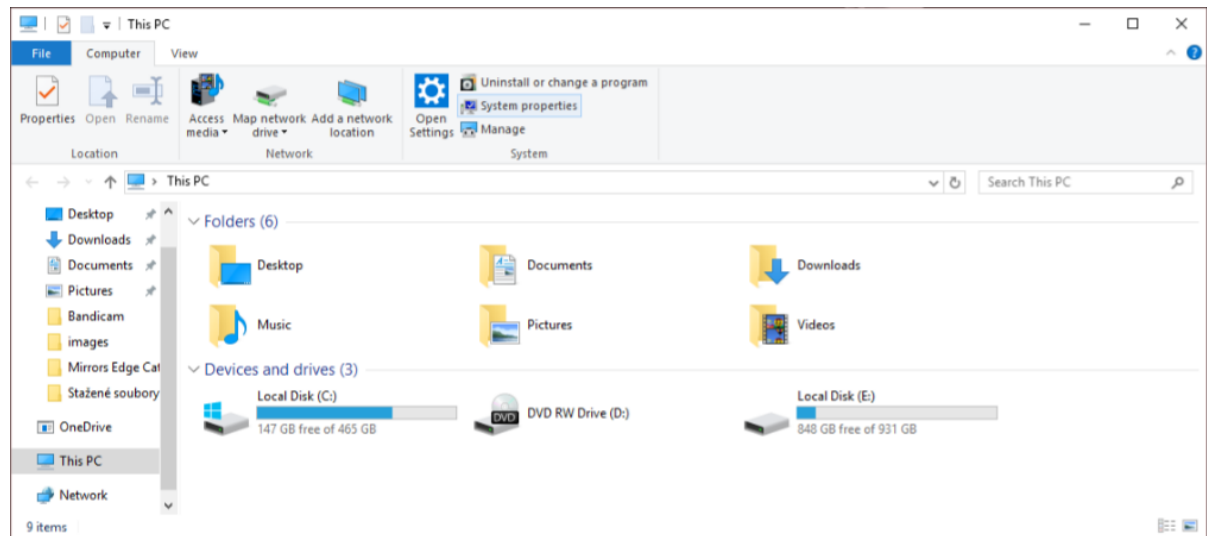


8. After the Windows 10 system boots up, connect the X10 camera to your PC via a Micro USB cable. Before and whilst connecting the camera to the cable you must hold down the “UP” button on the camera [upper side button]. The camera should now be connected to the computer in “service mode” with the display off and with both LED lights [blue and red] on the back lit up. Now release the “UP” button.

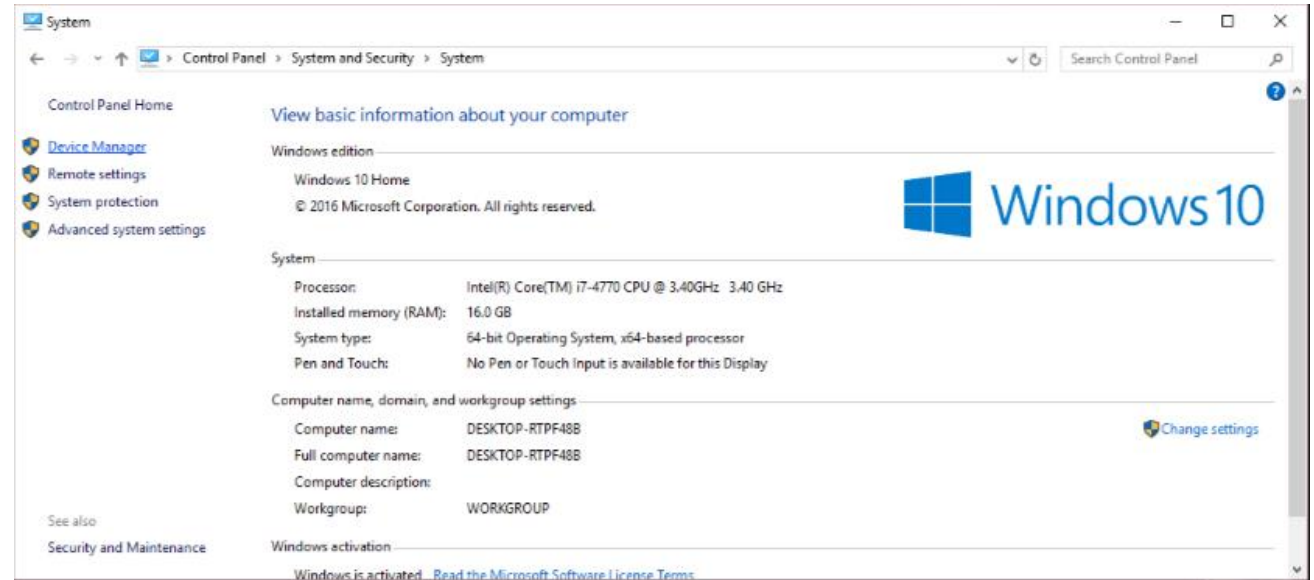
9. Launch “This PC” application.



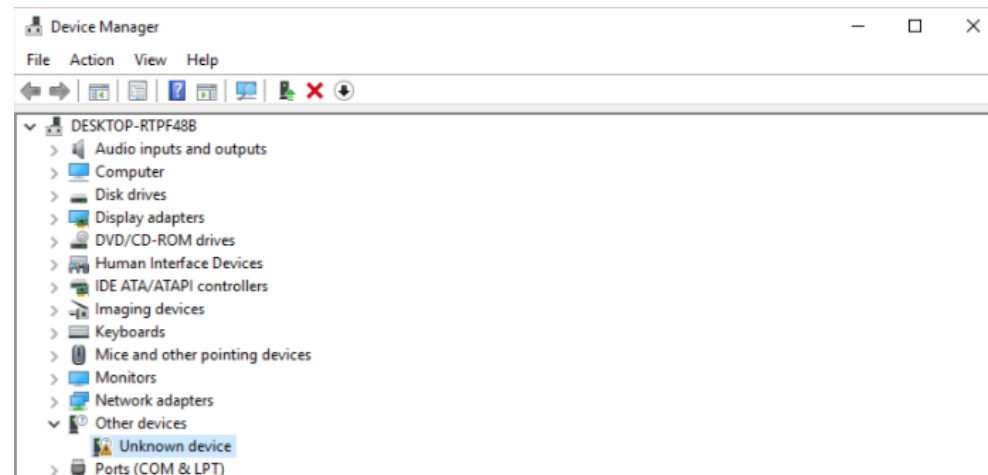
Then click on “System properties”



## 9. Click on “Device Manager”

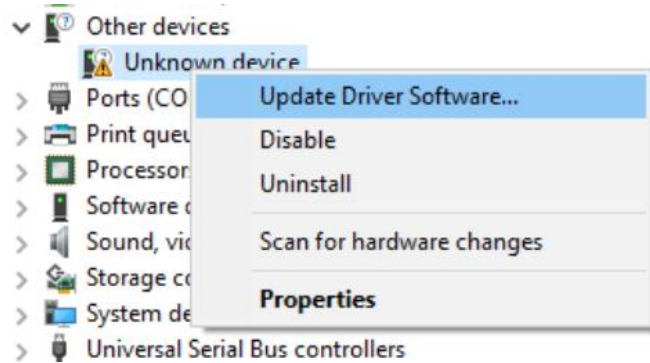


## 10. There should be “Unknown device” in the “Other device” folder

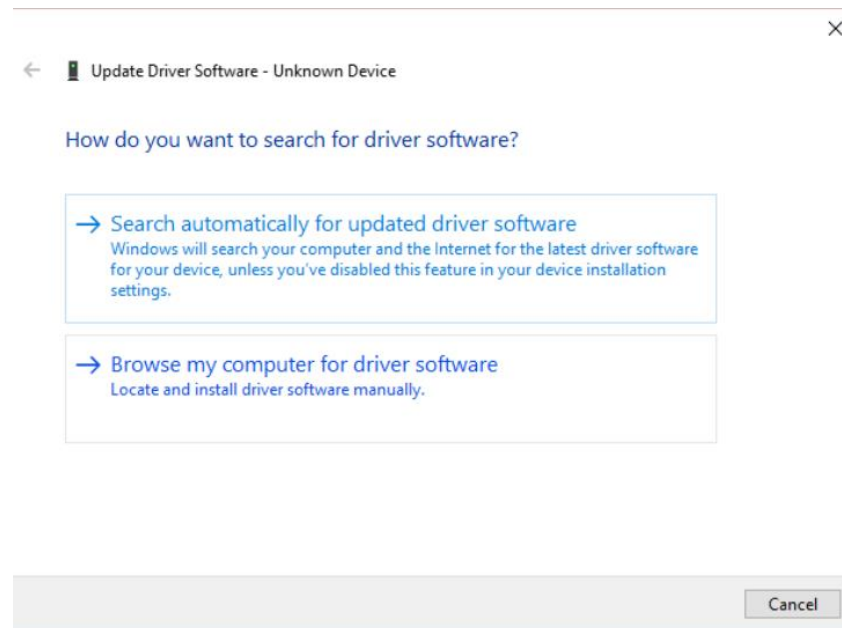




11. Right click on “Unknown device” and choose “Update Driver Software”



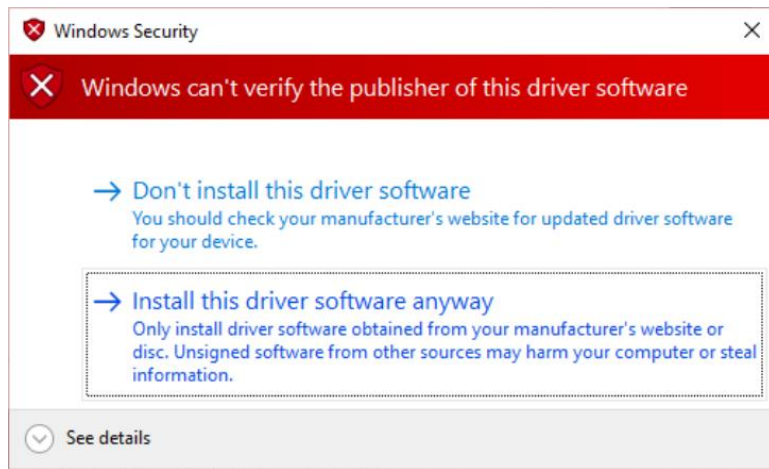
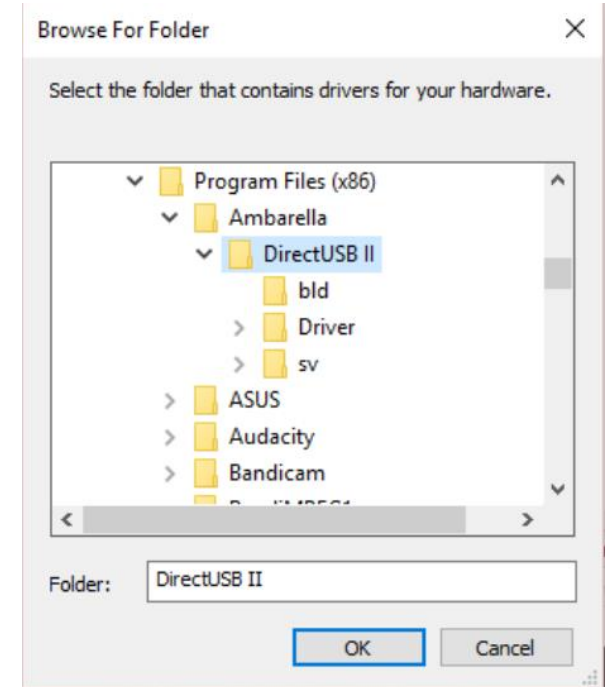
12. Now select the “Browse my computer for driver software” option



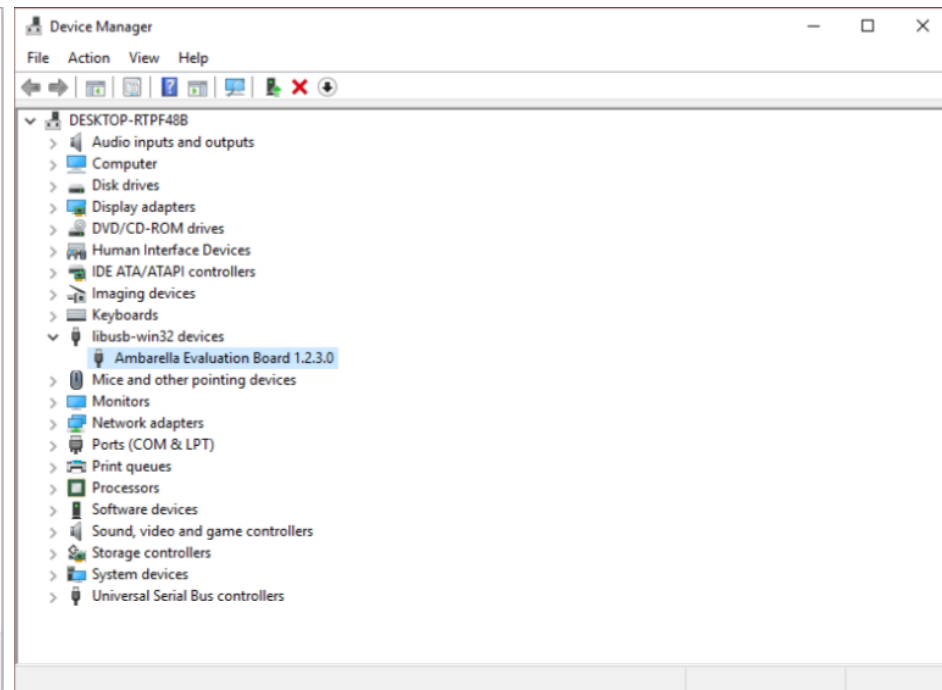
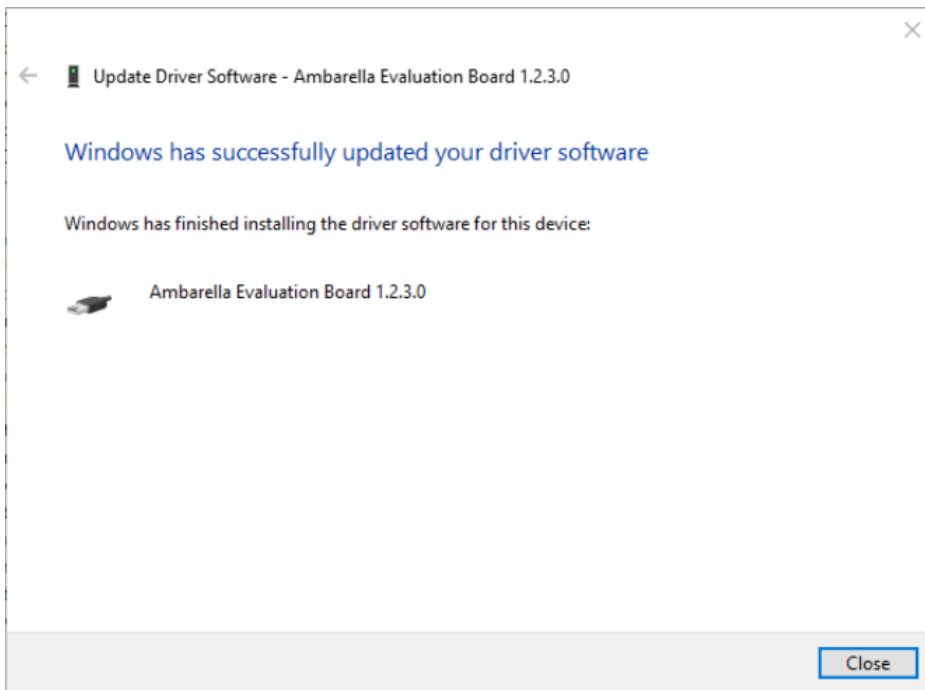


13. Choose your root “DirectUSB II folder” and click on the “OK” button

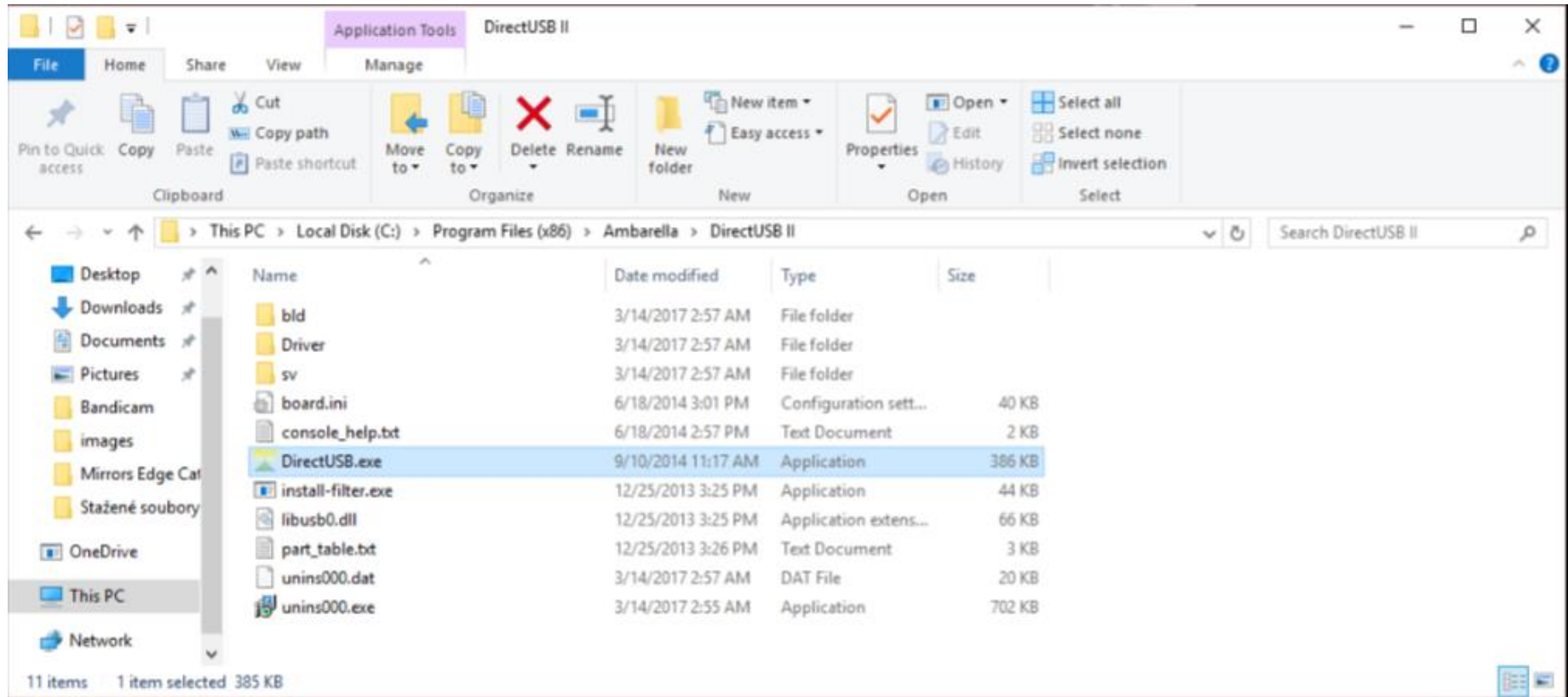
14. A Windows warning will appear but select the “Install this driver software anyway” option



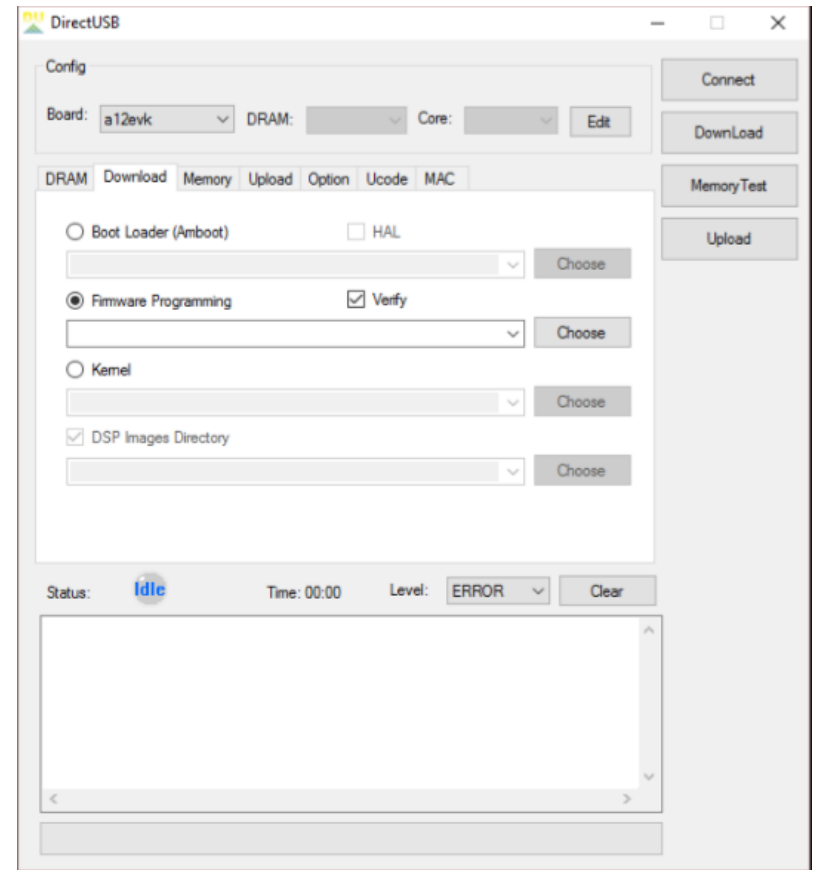
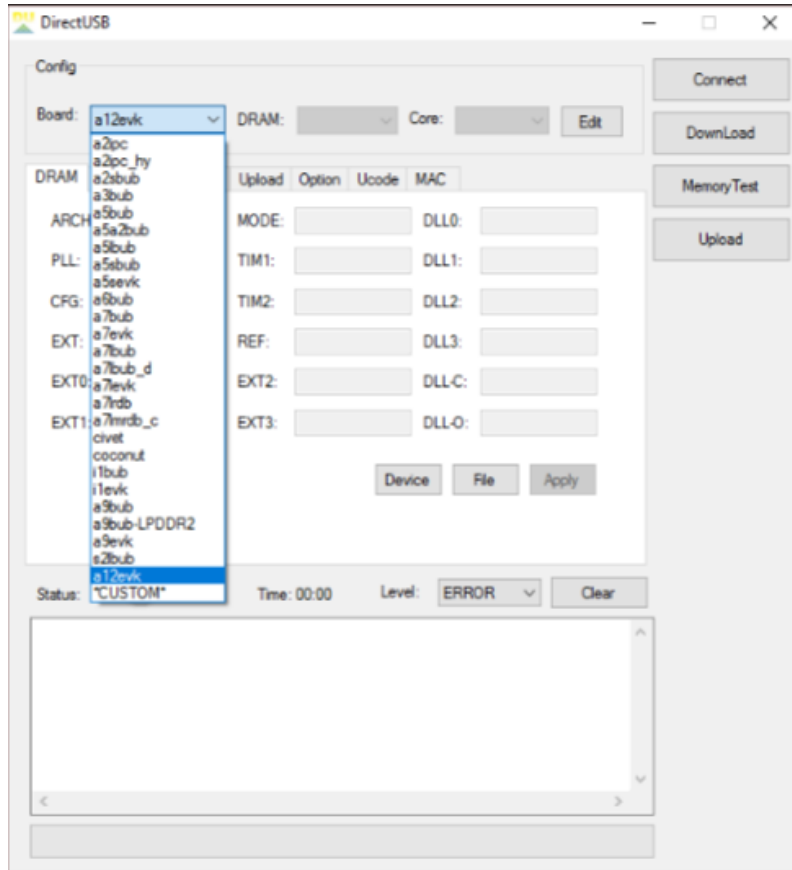
15. The X10 camera driver should be installed now. You should see “Ambarella Evaluation Board 1.2.3.0” in the “libusb-win32 devices” folder



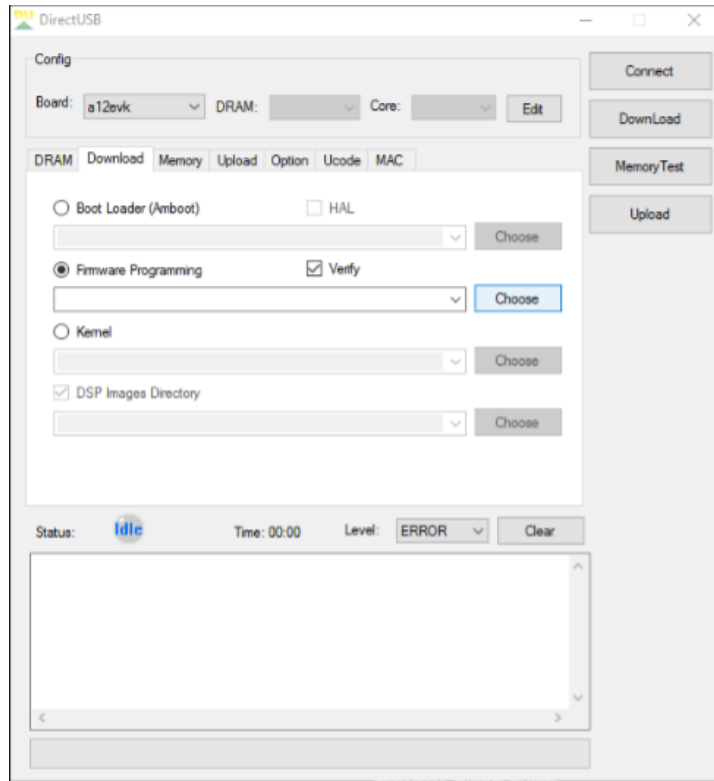
16. Launch the DirectUSB application by double-clicking on the "DirectUSB.exe" file. The "DirectUSB II" folder should be in the "Ambarella" folder in "Program Files" or "Program files (x86)".



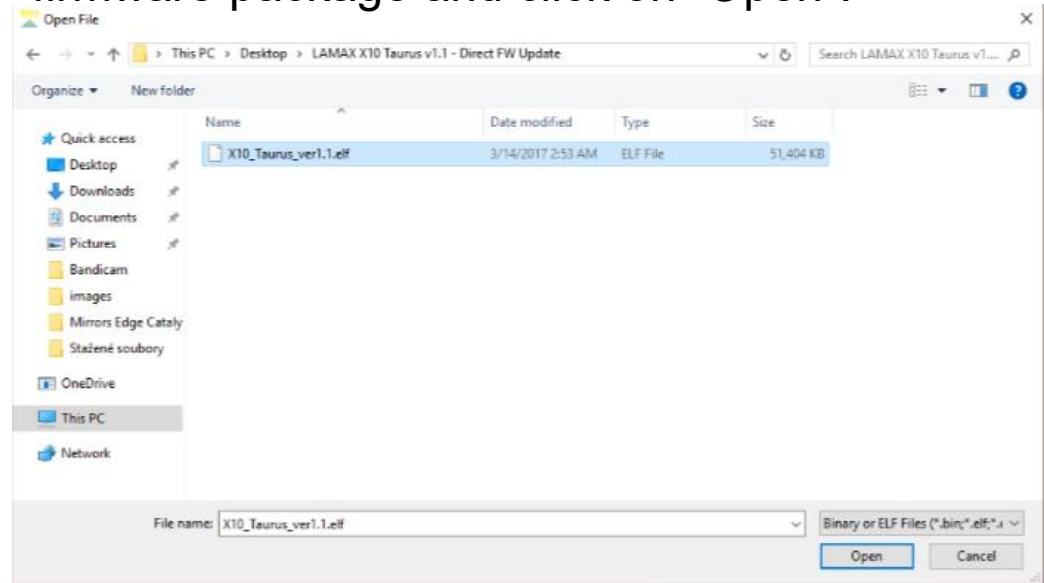
17. First choose the “a12evk” option under “Board” and then switch the “DRAM” option to “Download”.



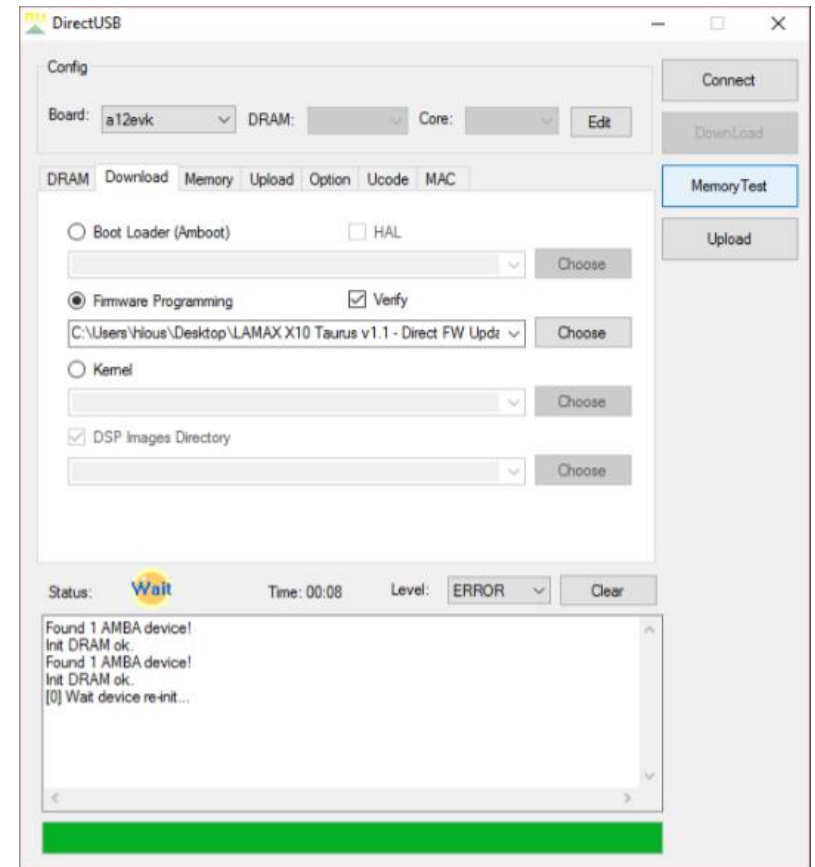
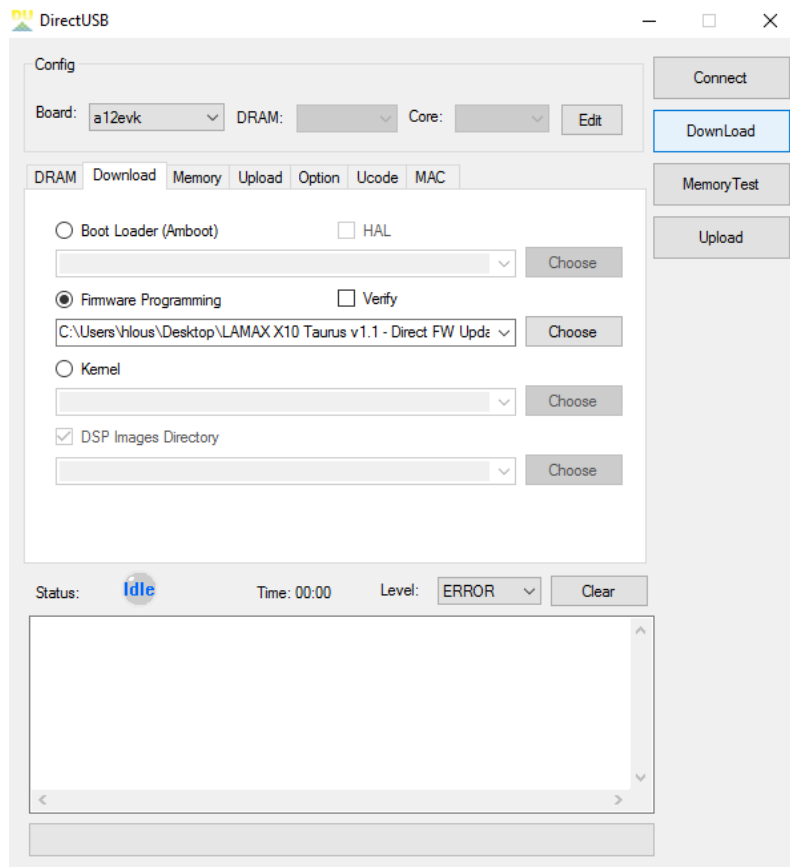
18. Click on “Firmware programming” and then “Choose”



19. Select the new .elf firmware in the new firmware package and click on “Open”.

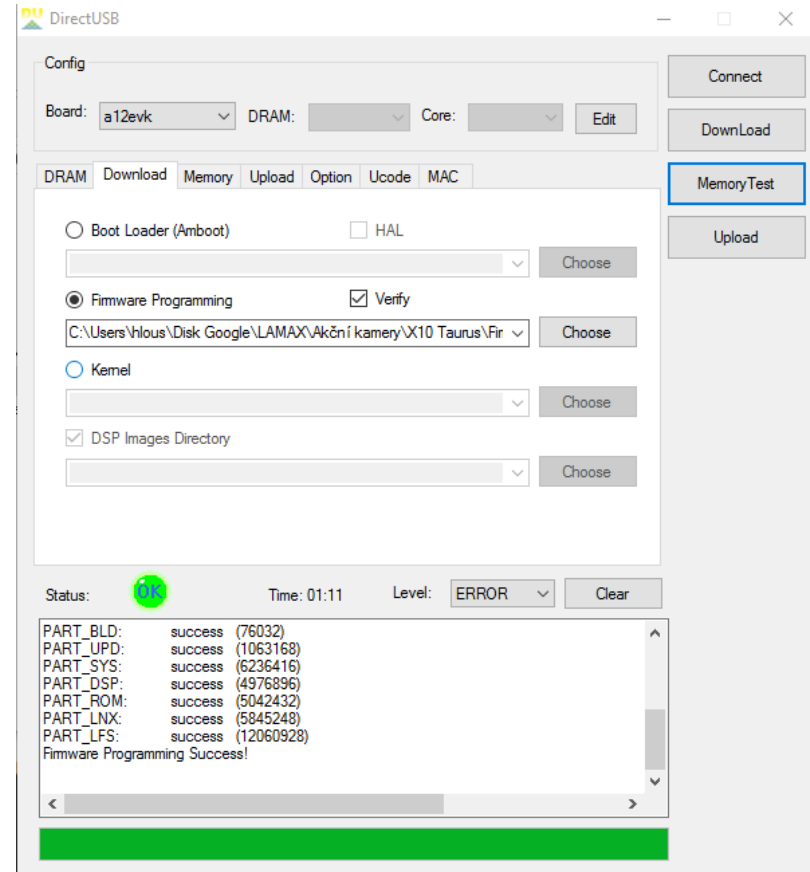


18. Click on the “Download” button and the firmware update should begin. Do not disconnect the camera under any circumstances during the update process. It should take up to three minutes.



18. After the firmware is successfully updated, an “OK” sign will appear in a green circle and “Firmware Programming Success” can be seen in the console. Now disconnect the camera and remove the battery from the device for 5 seconds. After this the camera is updated to the new firmware version.

After the initial startup of the camera, the device should automatically restart once.





## Disclaimer:

This procedure should be used only on X10 cameras with firmware ver1.0. Any device with the firmware ver1.1 or higher should be updated using the simpler SD card method.

We are not the creators of the DirectUSB application. The creators of DirectUSB are not responsible for any X10 device damaged by firmware programming. Do not use it on any other device.

