

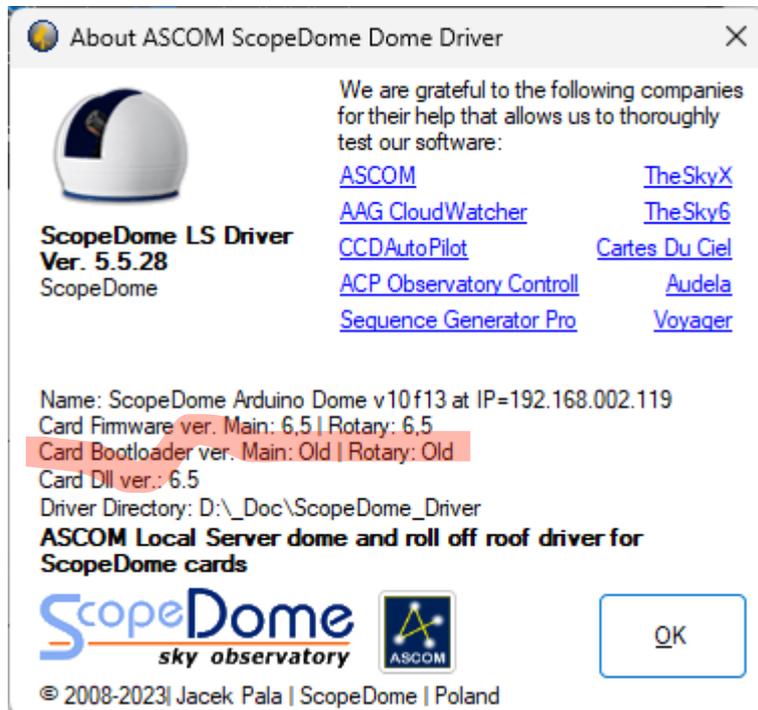
Instructions for installing firmware for ScopeDome Arduino Card

Initial information

The method of firmware installation depends on the version of bootloader installed on the card.

You may have two types of bootloader installed, named "Old" and "New".

The information about the bootloader version is shown in the "About" window of the driver in the line Card Bottloader ver.



In the example card, both the Main and Rotary parts have the old version of the bootloader installed. The "Main" part is responsible for rotating the dome, the "Rotary" part for opening and closing the flap.

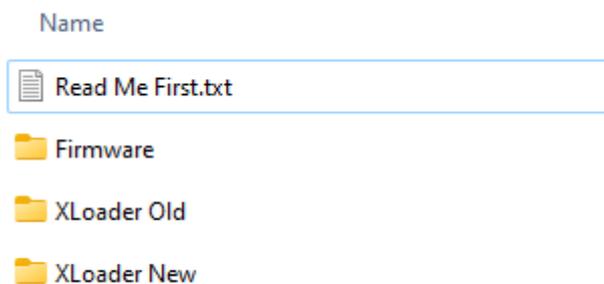
To upload the new firmware to both cards, you must first connect them with a USB cable to your computer.

Each card must report itself as a new COM port in Windows' Device Manager.

You should first upload the firmware to the "Main" card and then to the "Rotary" card. Please note that the COM ports will have different numbers for the Main and Rotary parts.

Installation

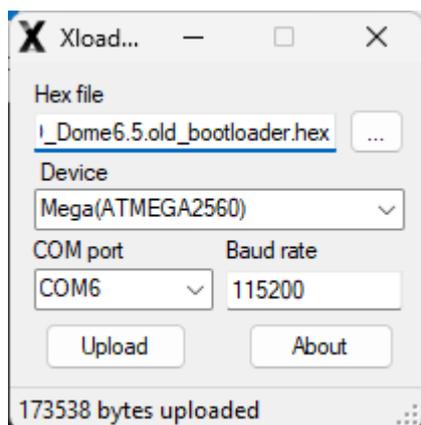
1. According to the bootloader version, select the "XLoader Old" or "XLoader New" directory from the subdirectory Card Firmware>Arduino



2. then run the XLoader.exe program

Name	Date modified	Type	Size
avrdude.conf	25.05.2017 10:44	CONF File	408 KB
avrdude.exe	25.05.2017 10:44	Application	1 878 KB
devices.txt	25.05.2017 10:44	Dokument tekstowy	1 KB
libusb0.dll	25.05.2017 10:44	Application exten...	43 KB
license.txt	25.05.2017 10:44	Dokument tekstowy	1 KB
X XLoader.exe	25.05.2017 10:44	Application	271 KB

3. Please set the parameters of the **XLoader.exe** program
 - select the appropriate COM port for the card
 - select Device as Mega(ATMEGA2560)



4. Select the appropriate firmare version from the Arduino>Firmware folder, and then press the **Upload** button. Latest version is:
SD_Dome6.5.old_bootloader.hex or SD_Dome6.5.new_bootloader.hex regards to bootloader version.

When uploading firmware, the yellow and green led (next to the ICSP1 connector) will flash very quickly. If the LEDs do not light up, it means that the wrong bootloader or the wrong version of firmawre has been selected. After a minute or so, the firmware upload should finish.