

Web browser upgrade of your Pulsar2 03.06.2017.

This document describes how to upgrade your Pulsar2 using a platform independent method. Pulsar2 users should use this method ONLY for upgrading their units.

If you have a Pulsar2 purchased after Dec 2010 do the following:

- 1) Download the latest firmware version in „hex” format.
- 2) Decide if you will connect directly to your PC/Laptop or via router.
- 3) If you connect directly, disable DHCP in the system/IPsettings menu and exit all the menus
Check your PC's IP address.

Right click NetworkPlaces/Properties/right click Local Connection/Properties/TCP IP Protocol and note the IP address (example:192.168.22.20)) OR type „cmd” in the Windows search window, then type ipconfig on the command line and hit enter.

Using the hand controller enter the system menu and look for IP settings. Set the IP address so that only the last group is different from your PC's IP address (example:192.168.22.111)

Now connect Pulsar2 (LAN port) to your PC with an Ethernet cable (cross or straight). Open a browser (Chrome recommended) and type the IP address entered in Pulsar2 into the web address bar at top left and hit Enter. A connection with Pulsar2 will be established in a few seconds. Click on the Upgrade button and select the hex file downloaded and click „Send”. The upgrade will last cca 20seconds and the connection will be lost at the end. At this point you have completed the upgrade process and can unplug the cable or reconnect.

4) If you connect via a router, leave DHCP enabled and after connecting Pulsar2 (LAN port) to the router with an Ethernet cable (cross or straight), read the assigned IP address from the IP settings menu of Pulsar2. For the rest, do as instructed above, for the direct connection.

After the upgrade select „Sidereal” as tracking on the hand controller to enable tracking.

If you have purchased your Pulsar 2 before Dec 2010 do the following

Upgrade with the former method (detailed in the manual) using the latest available „bin” file (download form the webpage),
Set the IP address of Pulsar2 as described above,
Connect Pulsar2 to the PC with an Ethernet cable,
Open Firefox and type Pulsar2's IP address as described above – **if it connects** to the Pulsar2 webpage click the upgrade button and select the „hex” file, then click „Send” and wait cca 20 sec for the process to complete. Upon completion the connection will be lost. Now you are ready and the next time will need only the browser and the

„hex” file.

If **it does not connect**, type the IP address with a /0 at the end (e.g.: 192.168.22.111/0)

A makeshift page will appear where you can only do an upgrade, but now with the „hex” file,

When ready (20 sec cca) the connection will be lost. Restart Pulsar2 and the next time you connect type the IP address without the /0 (e.g.: 192.168.22.111) and the new webpage will appear.

From now on this Pulsar2 can be upgraded by typing the IP address (without /0) and selecting the „hex” file by browsing.

In all cases, after the upgrade process you have to select „siderial speed” because your Pulsar2 will block all motions for safety.

Important warnings:

Pre 2010 models of Pulsar2 will only run firmwares with 4.xx version number. If you have 4.xx in your Pulsar2, make sure it is a hardware 2.2 version (system menu) before upgrading with 5.xx firmware!

If it is a 1.1 hardware version, it is possible to upgrade the processor at the cost of cca 150 EUR.

Disable GPS search (User menu) or wait until it times out (blinking „gps” on the display) for the time of the upgrade.

[Not all browsers may be suitable for the upgrade. Use Chrome if possible.](#)