

FIRMWARE UPGRADE FOR ULTRA GUARD DEVICES

Applies to devices fitted with micro USB port only

This manual can be found here: http://j-log.eu/wp-content/uploads/UG/ULTRA_Guard_firmware_upgrade.pdf

The ULTRA Guard fitted with micro USB ports can be field upgraded with the new firmware version V2.0.

To prepare for the upgrade, download the installer (Windows is the only supported operating system) from the webpage at:

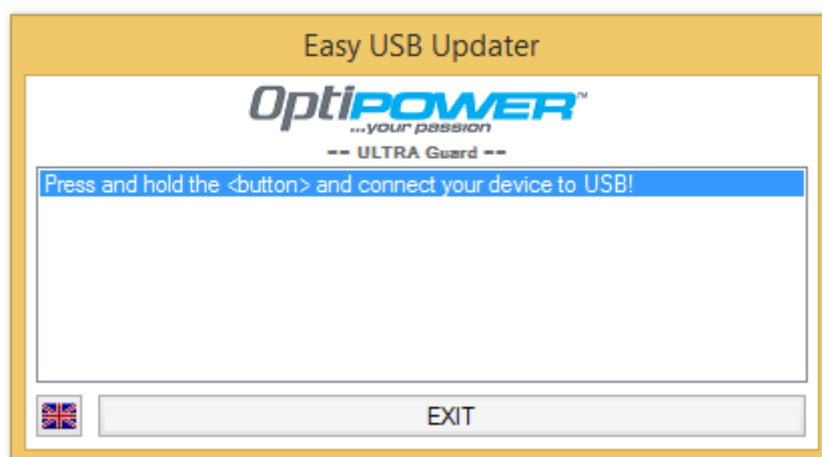
http://j-log.eu/wp-content/uploads/UG/Firmware_UG_V2_01.exe

Also prepare:

- microUSB to PC cable
- 4.8V - 5.6 V supply (Receiver pack, BEC etc. will do fine) connected to a receiver with a free port
- A second person to assist during the firmware upgrade (highly recommended)

Please read the following instructions to the end before starting with the process. The steps have to be done in the proper order and *quickly* to make sure the device will not overheat during the upgrade.

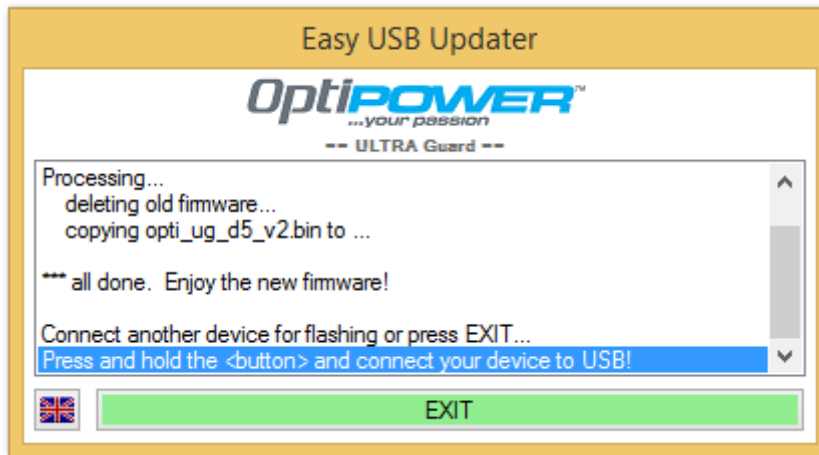
- 1) Download and install the software
- 2) Start the Upgrade Tool on your PC



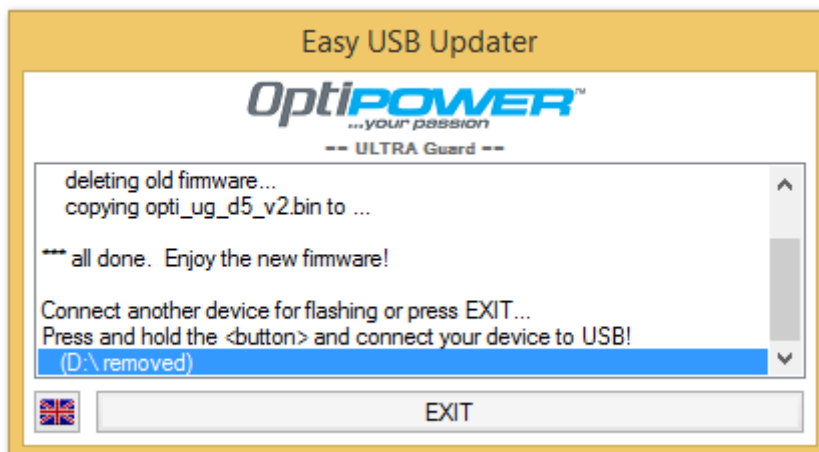
- 3) Disconnect the UG from the model and disconnect the 2S battery pack from the UG
- 4) Prepare the auxiliary 4.8V to 5.6V supply (receiver powered up with a free port)
- 5) Press and hold the button on the UG
- 6) Connect the micro USB cable to the UG and to the PC while holding the button pressed

If the upgrade tool starts flashing firmware, wait for the process to finish, skip step 7 and continue with step 8. If the upgrade does not start at this moment

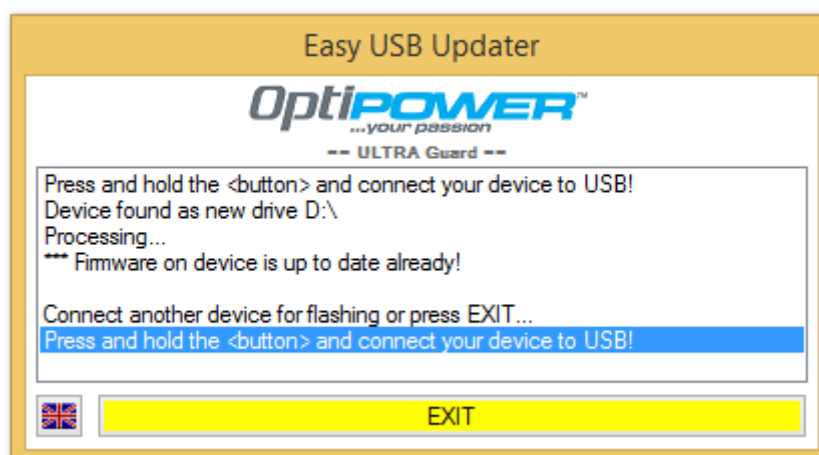
- 7) Connect the auxiliary battery to the UG input (JR lead) while holding the button pressed *



- 8) As soon as your PC is detecting the UG device, the button can be released
- 9) Disconnect the UG from PC and auxiliary power



To verify if the process was successful, you can optionally repeat the full process **from beginning**, the Update Tool will only flash the new firmware if not already installed and give a message if the device is already up to date.



Please keep the Update Process as short as possible as the device **will heat up during update**. This is generally OK and does not indicate a problem.

Press EXIT to terminate the updater program.

Do not keep the device connected to USB for a longer period of time or even unattended.

Please have a second person helping you during the update if ever possible as it can be sometimes hard to do all with no hand free at the same time.

**) Depending on the hardware revision, step 7 is not required.*