PMK Firmware Flasher Help

PMK Firmware Flasher is supplementary software to keep the potential and functionality of PMK devices, such as probes and Power Supplies, up to date.

What you need

- PC with MS Windows 7 OS or higher
- At least one Power Supply PS-02 or PS-03 and optionally one or more compatible PMK probes.
- The file “CDM v2.10.00 WHQL Certified.exe” as driver installer for FTDI-RS232-to-USB-driver.
- The .NET framework Version 4.0 or higher
- The software **PMK Firmware Flasher**, subject of this guide, as .exe file

Note: The FTDI chip FT232 uses an USB class which normally enables the usage of this chip without any driver. This is done by virtual COM port. Because the software enables the usage of the chip without choosing this COM port, the installation of the additional WHQL driver is necessary.

Software Installation

As of now, **PMK Firmware Flasher** does not need to be installed. It runs standalone, as long as the following prerequisites are met.

1. Make sure the .NET framework is installed. You can see this under “Control Panel -> Programs and Features”.

2. Make sure the USB WHQL driver is installed. If your operating system does not detect your device, unplug and reconnect the USB cable after driver installation.

Note: Administrative rights are required

User Functions

The graphical user interface (GUI) of PMK Firmware Flasher shows a graphical representation of the detected Power Supply "PS-02" or "PS-03" on the left, and information on connected Probe Type, Serial number, and current Firmware version on the right side. Below is a feedback panel showing running operations in detail.

All User Functions of PMK Firmware Flasher are available from the Ribbon of the GUI.

The Tab *"Update"* shows :

Search Ribbon

Scan - searches for connected Power Supplies PS-02 or PS-03 and connected probes.

*Press the **Scan**-Button to lookup devices and refresh your view.*

You see a connected Power Supply in the overview-panel below.

Connected Probes are indicated by green colored channels on the overview-panel.

Click on a channel or change channels with the arrow buttons in the bottom-left corner.

Update Device Ribbon

Radio Button - choose to update Power Supply or a supported Probe Connected to it.

Flash Button - starts the flashing process of the selected device.

You can see the progress of the operation in the detailed info view below.

***Available Update Ribbon** - shows available firmware versions, that came with the executable and their integrity (md5).*

Check on the right side of the overview panel, if the available firmware version is above the current version.

Flash only firmware versions higher than the current ones.

The Tab "About" shows information on the Developer and Software Version number.

Hardware Responses

Here is a brief summary of responses you may see during operation or maintenance of your PMK devices compatible with **PMK Remote Control** and **PMK Firmware Flasher**.

Device	***Response***	***State***	***Actions***
PS-02/PS-03 Power Supply	*LED 1 off, LED 2 lit*	*operational & waiting*	*None necessary*
PS-02/PS-03 Power Supply	*LED 1 blinking, LED 2 lit*	*operational & transmitting*	*None necessary*
PS-02/PS-03 Power Supply	*LED 1 lit, LED 2 off*	*Flash mode*	*Do not disconnect or power down*
BumbleBee HV-Probe	*Attenuation LED lit*	*operational*	*None necessary*

Flashing Routine

To Flash a device:

- Establish Hardware connection
- Hit the **Scan** Button to read the data currently on the connected devices.
- Select the device you want to update with the **Radio** Button in the ribbon.
- Verify, that the available firmware version is higher than the current one.
- Hit the **Flash** Button to start the process.
- Wait for the Pop-Up confirmation on successful operation.
- In case of an error or unfinished operation, restart the process.

Credits

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