

## How to update the firmware of the Vmarker IR-sensor USB

Before you start the update make sure you write down all settings of the Vmarker IR-sensor USB

IR-Sensor config GUI	
Calibration Data	Common Settings Mouse MultiTouch Apple mode Vmarker mode Keyboard mode: azerty Calibration Settings Enable Manual Calibration
X: <b>[</b> ] Size: <b>[</b> ] Y: <b>[</b> ] Point:	Timeout  500 \$    Sensor Settings    Gain 1    Gain 2
Mouse Running	Bright 27 🗘
Calibrate Save Settings	Max Size

You can read the values with the VmarkerGUI.

The firmware updater is only available for Windows. Extract the zip-file, the program will not install.



All files necessary are included in the folder.

Just run the FirmwareUpdate.exe. Allow the program to run when windows or anti-virussoftware asks for it.

HIDLoader	
File	
Prepare for firmware update	Update

When FirmwareUpdate.exe is started a small application windows displayed.

Press 'Prepare for firmware update'...

File Prepare for firmware update Update Update Update The Firmware? Current firmware: version 4 OK Cancel	HIDLoader	
Prepare for firmware update Update  FirmwareUpdate Update The Firmware? Current firmware: version 4 OK Cancel	File	
FirmwareUpdate Update The Firmware? Current firmware: version 4 OK Cancel	Prepare for firmware update	Ipdate
	FirmwareUpdate  Update The Firmware? Current firmware: version 4 OK Cancel	
	l	

The current version is displayed.

I f you want to continue with the firmware update press OK.

HIDLoader	
File	
Prepare for firmware update	Update
ADDR: $10 \Rightarrow 255$ ADDR: $11 \Rightarrow 544$ ADDR: $12 \Rightarrow 958$ ADDR: $13 \Rightarrow 502$ ADDR: $14 \Rightarrow 1$ ADDR: $15 \Rightarrow 1$ ADDR: $16 \Rightarrow 0$ ADDR: $17 \Rightarrow 100$ ADDR: $18 \Rightarrow 500$ ADDR: $18 \Rightarrow 500$ ADDR: $19 \Rightarrow 100$ ADDR: $20 \Rightarrow 100$ ADDR: $21 \Rightarrow 1$ ADDR: $22 \Rightarrow 0$ ADDR: $23 \Rightarrow 0$	
L	

All settings will be stored temporarily in the application instance.

During this the Vmarker IR-sensor will automatically be reconnected to your computer. This can take up to 2 minutes, allow Windows Plug and Play engine to detect this.

After reading the settings the Vmarker IR-sensor USB will be set in 'update-mode'.

- HIDLoader	
File	
Prepare for firmware update	Update
Connected to Vmarker updater flash size: 131071 bytes page size: 1024 bytes page count: 128 bootloader size: 8192 bytes	

You will get 'Connected to Vmarker updater' and some statistics...



It is now time to press the 'Update' button.

Open binary im	lage	? 🗙
<u> Z</u> oeken in:	🔁 FirmwareUpdate 💌 🔶 💼 🕂 📰 -	
Onlangs geopend Bureaublad Mijn documenten	vmarkerUSB_V4.0102.bin vmarkerUSB_V5.0102.bin	
Mijn netwerklocaties	Bestands <u>n</u> aam: vmarkerUSB_V5.0102.bin	<u>O</u> penen
	Bestandstypen: Binary files (*.0102.bin)	Annuleren

You will get a 'open file' window to select the firmware you want to load.

You will see \*.0101.bin files if you have an Vmarker IR-sensor USB build before 1/7/2012 The firmware \*.102.bin files are shown if you have an IR-sensor USB build after 1/7/2012 Vx indicates the version number. The highest number is the latest firmware.

Select the file and press 'Open'.

HIDLoader	
File	
Prepare for firmware update	Update
Connected to Vmarker updater flash size: 131071 bytes page size: 1024 bytes page count: 128 bootloader size: 8192 bytes Start flash erase	

The firmware will be loaded to the Vmarker IR-sensor USB, do not disconnect the Vmarker IR-sensor USB during this process...

HIDLoader	
File	
Prepare for firmware update	Update
Connected to Vmarker updater flash size: 131071 bytes page size: 1024 bytes page count: 128 bootloader size: 8192 bytes Start flash erase Flash erased! OpeningL:/software (bin)/FirmwareUpd Start flashing Flash written! Start Reading Flash readed! Updated succesfully!	late/vmarkerUSB_V5.0102.bin
	.:

Can follow the different steps of the update.

HIDLoader	
File	
Prepare for firmware	update Update
Connected to Vmarker up flash size: 131071 bytes page size: 1024 bytes page count: 128 bootloader size: 8192 by Start flash erase Flash erased! OpeningL:/software (bin Start flashing Flash written! Start Reading Flash readed! Updated succesfully!	Old settings Writeback old settings? Yes No

When the update is successfully, you will get a pop-up. Answer yes if you want the update tool to write back the settings of the Vmarker IR-sensor USB. The calibration is also restored. You do not have to calibrate!

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File	
Prepare for firmware update	Update
ADDR: 11 <= 544 ADDR: 12 <= 958 ADDR: 13 <= 502 ADDR: 14 <= 1 ADDR: 15 <= 1 ADDR: 16 <= 0 ADDR: 17 <= 100 ADDR: 18 <= 500 ADDR: 19 <= 100 ADDR: 20 <= 100 ADDR: 21 <= 1 ADDR: 22 <= 0 ADDR: 23 <= 0	
Writeback done! Please replug the Vma	arker,to load the new settings! 💿 🐱

After writing the settings you will be asked to replug the Vmarker IR-sensor USB. Only then the old settings and old calibration will be active again.

If this step fails you can configure the Vmarker IR-sensor USB with the VmarkerGUI manually by changing the settings to the values you have written down before you started the firmware update. And of course you have to recalibrate the Vmarker IR-sensor USB in this case too!