

TECHNICAL INFORMATION	TT-1407-guho-02-gb
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Product Group	TT: Multimeter
Product	METRAHIT Starline Series
Subject	Firmware Update
Involved	

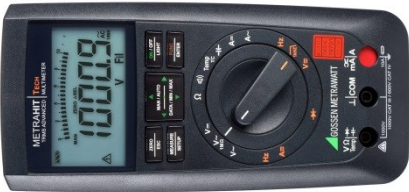

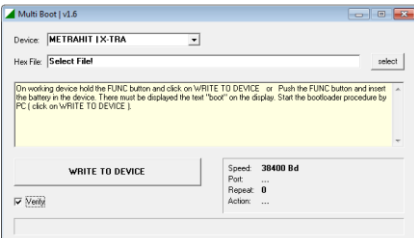
Background / Task

For functional expansion or improvement all METRAHIT Starline Multimeters offer the possibility to install a firmware update via the infrared data interface of the device.

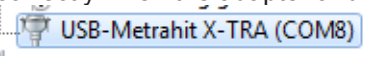
This Technical Information describes the procedure for updating the device.

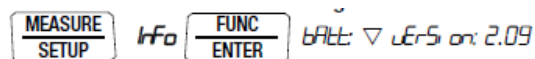
Important Note: Installation of a firmware update by the user is always on his own risk. If the firmware update process is interrupted or a wrong firmware file is installed, the instrument may become unusable and require factory repair (not covered by warranty!).

Required Equipment

	Digital Multimeter METRAHIT Starline Series A Series: BASE, PRO, TECH, X-TRA E Series: EBASE, ETECH, ESPECIAL, EXTRA S Series: OUTDOOR, T-COM, ISO, ISO AERO, ENERGY, ULTRA, H&E CAR, COIL, SECULIFE HIT
	Interface Adapter USB X-TRA (Z216C) incl. USB Driver "Driver-Control" The driver program and the installation instructions are located on the CD-ROM supplied together with the adapter or can be downloaded from http://www.gossenmetrawatt.com/english/produkte/drivercontrol.htm .
	Update Program 'MultiBoot.exe' and Firmware File 'Mxxx_Vyyy.hex' Received by e-mail or downloaded from a given website. Copied to any folder (e.g. C:\temp) on a Windows PC (XP, 7 32/64bit or 8) with USB Port.

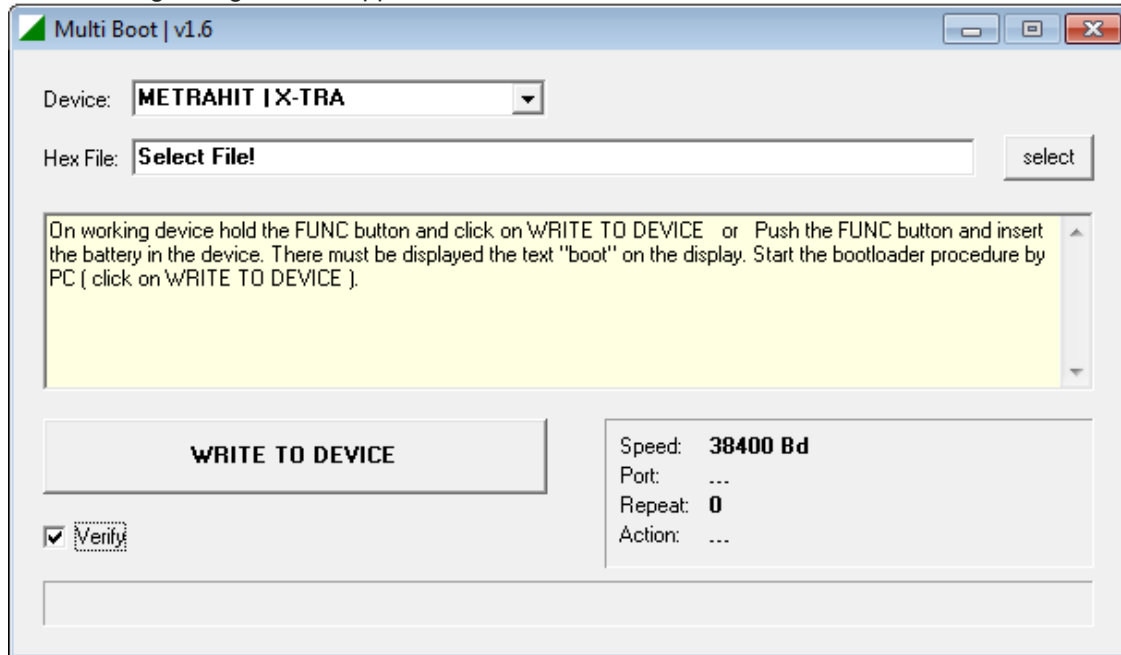
Preparations

- Display the current firmware version at the device:
 - At the PC install the USB driver "Driver Control" before you connect the interface adapter USB X-TRA!!
 - Connect only one interface adapter USB X-TRA to the PC!
 - In the "Windows Device Manager" you can check if the USB Driver for the adapter was installed and loaded correctly when the adapter and its assigned COM port appear under "Connections (COM & LPT)":
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- Make sure that there are no weak or dead batteries in the multimeter!
 - At the PC close all other applications which can affect the USB communication and if a notebook is used this shall be AC supplied via its mains adapter.



Firmware Installation

- In "Windows Explorer" go to the above mentioned folder and run "MultiBoot.exe".
The following dialog window appears:



- If not yet selected, choose the multimeter model to be updated in the selection for **Device**
- Click **select** to specify the hex file in the folder to which you copied the firmware file "**Mxxx_Vyyy.hex**".
- Connect METRAHIT multimeter via Interface Adapter USB X-TRA to PC and switch it ON.
- Now follow the displayed instructions.
- When you click **WRITE TO DEVICE** the program searches for the defined multimeter (which can take some time) and then starts the upload process. Important: Do not interrupt the upload process!
- After upload and verification of the firmware is finished the device will be rebooted.
- At the device in the menu **SETUP > inFo > VEr x.xx** the new firmware version shall be displayed now.
- Close MultiBoot.