

Fluke 190-Series-III Firmware Upgrade

FLUKE 190-series-III ScopeMeter test tools can be updated by loading files named 'FLUKE-190-III-Vx.x-y.yy.y.swu'. This applies for all models 190-xxx-III, 190M-x-III and MDA 550-III, 2-channel as well as 4-channel versions.

How to upgrade firmware

- Download a firmware .swu file from the Fluke website and copy it to an empty USB thumb drive. That device must be FAT-32 formatted.
- Make sure the ScopeMeter is powered by the battery charger BC190 and is turned ON.
- Check the menu USER, VERSION & CAL for installed Firmware version. Refer to section 'Version and Calibration Information' in the Users Manual for details.
- Make sure the version indicated in the .swu filename (Vx.x) is higher than the firmware version installed in the instrument.
- Place the thumb drive in the USB-A slot of the ScopeMeter. Refer to section 'USB Ports' in the Users manual for details.
- Follow instructions on screen and wait until the unit reboots. This may take several minutes.
- After reboot, the menu USER, VERSION & CAL shows the updated Firmware revision
- Remove the USB thumb drive.

Version history:

V1.3 (April 2022) Improvements over V1.2

- Firmware V1.3 is compatible with FlukeView-2 V3.1
- Resolved issues with some MDA-550-III's that were erroneously showing their identity as 'MDA-550' in the USER screen and in FlukeView-2
- Fixed issues with missing translations of warnings and messages
- Fixed issues with waveform download. Math and reference waveform data download is not supported. For detailed mathematical analysis waveform data can be saved to .CSV format and analyzed using Excel or other software.
- Added possibility to see in FlukeView-2 a listing of all datasets stored in internal memory and select which ones to download
- Fixed issues with file list not showing all recorded data
- Fixed date and timestamp issues when reading files via remote interface
- Fixed issues with USB thumb drive detection
- Fixed UI issues with MAX and MIN readings alignment when using a single cursor
- Fixed issues with MDA 550-III connection diagrams
- Fixed issues with MDA 550-III EVENT function and manual time base control; timebase is locked for this measurement
- Removed incorrect minus sign for Ohm measurement
- Fixed missing the unit-of-measure for DMM TrendPlot function on 2-channel models
- Fixed issues when copying .BMP files to USB

- Fixed reboot issues when using CURSOR function and MATH function at the same time
- Fixed issues with cursor-readout on Mathematics waveform showing incorrect units
- Improved .CSV compatibility for Unicode support with UTF-8 preamble
- Fixed issues when opening screen data with info message for MDA 550-III
- Fixed issues with MDA 550-III copy report to USB
- Fixed issues with MDA 550-III ZOOM function for Drive-output/Motor-input
- Fixed issues with missing keyboard for EDIT NAME
- Removed the second USB device that was seen in Windows Device Manager
- Improved FlukeView-2 synchronization of screen-copy and waveform-data
- Removed unused keys from virtual keyboard
- Fixed issues with ENVELOPE function when changing time base settings
- Fixed the issue that an Envelope trace with ZOOM applied, at TB 40 ns or faster, would be seen with a different horizontal zoom factor for the envelope
- Fixed issues with cursor measurements on math TrendPlot results
- Improved decay timing for Persistence function
- Fixed issues for the manual calibration menu
- Resolved a font issue with the 'μ' (micro) symbol in the Trigger Delay indicator
- Resolved an issue with vertical sensitivity indication when selecting a temperature probe
- Fixed compatibility issues with FlukeView-2 when saving data to .CSV on USB thumb drive
- Fixed User Interface issues when pressing AUTO in meter mode of 2-channel models
- Resolved issue for frequency reading using cursors in the Spectrum, for scope settings of 40ns or faster
- Fixed issue with External Trigger for ScopeRecord mode
- Improved data transfer speed when using USB
- Improved automatic Risetime measurements
- Changed format of CAL-date to include three letters for the month, to prevent any confusion
- Fixed issues with USER key when using MATH

Known Issues with V1.3:

- 14 ns Trigger shift when using N-cycle triggering
- Some WiFi downloads into FlukeView-2 are not supported, these result in a warning 'supported through USB only'.

Version history:

V1.2 (October 2021) Improvements over V1.0

- Disabled charging and discharging of Li-ion battery at high temperature
- Fixed production process issues
- Improved stability
- Several minor UI improvements
- Several minor menu and cursor navigation improvements

- Fixed Probe Calibration issue
- Fixed Crest Factor reading overload
- Fixed issues with Save As menu
- Fixed A vs B persistence
- Fixed issues when using zoom
- Fixed Time Base ranging during TrendPlot
- Improved PWM menu behavior
- Added product registration with on-screen QR code

Known Issues with V1.2:

- Attenuator indicates ??? when TEMPerature probe is selected
- μ Symbol in trigger delay is shown in incorrect font
- EXT trigger symbol incorrect in 2 channel instruments
- USER key disabled in MATH
- 14ns Trigger shift when using N-cycle

Version history:

V1.1 This version has not been released

Version history:

V1.0 (September 2021) Initial Firmware Release Fluke 190-series-III ScopeMeter