

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'. See below for details.

This applies for all models 190-xxx-III, 190M-x-III and MDA 550-III, for 2-channel as well as 4-channel models.

How to upgrade firmware.

- Download a firmware .swu file from the Fluke website and copy it to an empty USB thumb drive ('memory stick'). The device should be formatted as FAT-32 device.
- 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 User's Manual for details.
- Make sure the version indicated in the .swu filename (Vx.x) is higher than the firmware version already installed in the instrument.
- Place the thumb drive in the USB-A slot of the ScopeMeter. Refer to section 'USB Ports' in the User's 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 Version number.
- Remove the USB thumb drive.
- Testtool is now ready to be applied as before.

Version history.

V1.6 (December 2025) – improvements over V1.5

- Drivers for wireless PC connectivity (FlukeView-2 and Fluke Connect) now support the EDIMAX EW-7822ULC Wi-Fi USB dongle in addition to the D-Link DWA-131 Wi-Fi USB dongle.

V1.5 (March 2025) – improvements over V1.3

- Firmware V1.5 is compatible with FlukeView-2 from V3.2 onwards
- Fixed file system issue on MDA 550-III. When saving more than 9 images / Reports. Overwriting the oldest data would corrupt the file system preventing saving of data.
- Improved .CSV file format when saving data to USB drive. Recordings and Waveforms with Glitch Detect on are now saved as Type ENVELOPE. With this change FlukeView can open these files correctly.
- Resolved a firmware crash issue when renaming an internally stored screen copy using a new filename larger than 20 characters.
- Resolved issues with text characters on screen sometimes missing one or more of their pixels. This could come and go randomly when switching the testtool off and on again.
- Fixed issue with flickering of LCD on some units.
- Fixed the following issues reported for MDA-mode:
 - An active TrendPlot of Motor shaft Events, in Table view, could result in a firmware crash.
 - Motor shaft Voltage, Events mode, the table could remain on screen when going back to control menu.

- Sometimes improper menu activated when going from any MDA-mode through F4.
- MDA-reports not properly stored in memory.
- Making a TrendPlot of Drive input readings and downloading those could give an error.
- Corrected some flaws in the Connection Diagrams that are seen in the MDA-mode.
- Fixed an issue that was encountered while loading new firmware.

Known Issues with V1.5:

- Probe Calibration menu may require retries before the probe calibration is started.

V1.4 This version has not been released or distributed.

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

- Firmware V1.3 is compatible with FlukeView-2 V3.1 onwards
- 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; time base 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’.

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

V1.1 This version has not been released or distributed.

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

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