

BIOS Update on WS3000 oscilloscopes

APPLICATION BRIEF

13-Oct-2021

Summary

For the WaveSurfer 3000 oscilloscopes a BIOS update can be installed when the Firmware is at V9.1.0.3 or higher.. There were cases where WS3000 oscilloscopes ran into a boot loop and needed a system recovery to reenable normal operation. The BIOS update fixes this problem. This application brief describes how to install the BIOS updated, which is available if firmware version 9.1.0.3 or newer is installed. If the instrument currently is in the bool loop, you first need to make a system recovery. In this case please contact your local applications support.

BIOS Update

- Download the latest MAUI Software from our website. <u>WS3000 Firmware</u>
- 2. Copy or save the firmware *.fla file to a USB flash drive. The drive must be FAT16 formatted so that it can be used in the WS3000.
- 3. Boot the oscilloscope and plug in the USB flash drive with the downloaded firmware file.
- 4. Now select "Utilities Utilities Setup" in the oscilloscope software and click the "**Update Firmware**" button (1).
 - If MAUI V9.1.0.3 or newer is already installed, you can skip the steps 5 and 6 and proceed with step 7.
- 5. In the popup window "**Browse**" (2) to the firmware installation file on the USB flash drive and start the Upgrade (3).
- 6. After the upgrade is finished, the "**Shutdown**" button (4) gets active and you can reboot the oscilloscope.

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				Firmware Update
1				1) Download firmware installer from manufacturere's website for this model and copy it on the USB disk. 2) Plug in the USB disk to the Scope. 3) Click Browse to select flash(fla) file and click on Upgrade. 2 2 3
				USB Disk/Xstream/Superjet/ws3k_maui_9.2 Browse Upgrade
C1 DC1M				-
0.0 mV offset Utilities Sta	tus Remote	Hardcopy	Aux Output	Warning: Do NOT shut down the system or close application during the upgrade process.
HardCopy Setu	р 🗳			Close Shutdown
Date/Time Setu	P 🔡	Update Firmv	vare	
System Statu	is 🚺	Touch-Sci Calibra	reen	Service 🔎

- 7. Now enter again the Utilities Setup and click again on the "**Update Firmware**" (5) button. This will open a popup window for the BIOS update.
- 8. Click on the "Update BIOS" button (6) which enables the "Shutdown" button (7).
- 9. Shutdown and reboot the oscilloscope. The BIOS update will start automatically on reboot.
- 10. Wait until the MAUI software is started and don't turn off the instrument during the BIOS update process.
- 11. After the MAUI software has started, the BIOS update is finished and you can start working.

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		Firmware Update This system requires the BIOS to be updated and internal data to be reformatted to address a data corruption issue. After the update, the oscilloscope will not be able to run older firmware (8.7 or lower). Please select Cancel if you do not wish to update Ö	
C1 CC1M 50.0 mV/dtv 0.0 mV offset Utilities Status Remote	Hardcopy Cal Ou put	 Warning: You need to manually Restart the system after it shuts down. During next startup, it will update BIOS and re format the system. Do NOT shutdown or power cycle system during this process.	CIDE 0.0 mV Positive
HardCopy Setup	5	Cancel Shutdown	
Date/Time Setup	Update Firmware		
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