

R&S®HMO3000 Digital Oscilloscope

Release Notes

Firmware Version 06.005

These Release Notes describe the following models and options of the R&S®Digital Oscilloscope:

R&S®HMO3032 Digital Oscilloscope
R&S®HMO3034 Digital Oscilloscope
R&S®HMO3042 Digital Oscilloscope
R&S®HMO3044 Digital Oscilloscope
R&S®HMO3052 Digital Oscilloscope
R&S®HMO3054 Digital Oscilloscope

New Features of V06.005:

- Trigger hold-off time supported with all trigger types
- Display of hold-off time in the trace window when active
- Edge trigger on digital channel supports dual slope

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Subject to change

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The software makes use of several valuable open source software packages. For information, see the "Open Source Acknowledgment" provided with the product.

The following abbreviations are used throughout this document: R&S®HMO3000 is abbreviated as R&S HMO3000.

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Release Notes
Version 04

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1 Information on the Current Version and History

1.1 New Functions

The following table lists the new functions and indicates the version in which the new function was introduced:

New Function of Firmware V06.005:

Version	Function
V06.005	Trigger hold-off time supported with all trigger types, except bus trigger
V06.005	Display of hold-off time in the trace window when hold-off is active
V06.005	Edge trigger on digital channel supports dual slope

New Function of Firmware V05.522:

Version	Function
V05.522	None

New Function of Firmware V05.520:

Version	Function
V05.520	Time stamps for segmented memory
V05.520	Digital voltmeter functionality (DVM)
V05.520	Trigger counter functionality
V05.520	Extended search functions (Data2Clock, Pattern, Protocol)

New Function of Firmware V05.407:

Version	Function
V05.407	None

1.2 Modified Functions

The following table lists the modified functions and indicates the version in which the modification was carried out:

Modifications of Firmware V06.005:

Version	Function
V06.005	Renaming measurement types DVM: 'DC RMS' to 'AC+DC RMS'
V06.005	Display bandwidth in boot screen
V06.005	Trigger coupling preset changed from auto level (AL) to DC
V06.005	Faster autoset function

Modifications of Firmware V05.522:

Version	Function
V05.522	None

Modifications of Firmware V05.520:

Version	Function
V05.520	AUTO MEASURE menu modified

Modifications of Firmware V05.407:

Version	Function
V05.407	None

1.3 Improvements

The following tables list the improvements and indicate since which version the issue could be observed:

Improvements of Firmware V06.005:

since	Function
V06.005	Solved: 'SAVE RECALL\TRACES\TRACE\Vis. Channels' did not create a file.
V06.005	Solved: SCPI command ':STATus:OPERation:CONDition?' did not work correctly
V06.005	Solved: Pulse trigger type with comparison 'ti < t' causes wrong trigger events for trigger sources on channels 1 or 2.
V06.005	Solved: Rise-time trigger type with comparison 'ti < t' causes wrong trigger events for trigger sources on channels 1 or 2.

Improvements of Firmware V05.522:

since	Function
V05.522	None

Improvements of Firmware V05.520:

since	Function
V05.520	Solved: B-Trigger functionality (<n> events)

Improvements of Firmware V05.407:

since	Function
V05.407	None

2 Modifications to the Documentation

The current documentation is up-to-date.

3 Firmware Update

3.1 Validity Information

Firmware Package	Description
HMO3002.HFU	Firmware image for R&S®HMO30X2, version 06.005
HMO3004.HFU	Firmware image for R&S®HMO30X4, version 06.005
HO732.HFU	Firmware image for the HO732 interface, version 1.414

3.2 Update Information

Download the complete update package for the R&S® HMO3000 from the Rohde & Schwarz web page.

The package is a ZIP archive named: **HMO30XX_Firmware_V6_005.zip**.

The ZIP archive contains the following files:

HMO3002.HFU	Firmware image R&S® HMO30X2, including online help and user interface languages
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HMO3004.HFU	Firmware image R&S® HMO30X4, including online help and user interface languages
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HO732.HFU	Firmware image for the HO732 interface
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HMO3000_Release_Notes_v06.005.pdf

This document

HMOxxxx_Open_Source_Acknowledgement_en_01.pdf

Open Source Acknowledgement

3.3 Updating the Firmware

3.3.1 Preparing the Installation

Extract the ZIP archive to the root directory of a USB flash drive.

3.3.2 Updating the Firmware on the Instrument

Insert the USB drive into the USB port of the oscilloscope and push the key **SETUP**.

Press the soft key **MORE 1|3**.

Press the soft key **UPDATE**.

Press the soft key **FIRMWARE**.

Press the soft key Execute once the new firmware has been loaded and checked.

Wait until the device reboots automatically. If the instrument is equipped with a USB/LAN remote control interface, also update the HO732 interface as described below.



Interruption of the power during the update process can make the instrument unusable!

3.3.3 Updating the Firmware on the HO732 USB/LAN Interface (only possible if this hardware is installed in the instrument)

Insert the USB drive into the USB port of the oscilloscope and push the key **SETUP**.

Press the soft key **MORE 1|3**.

Press the soft key **UPDATE**.

Press the soft key **INTERFACE**.

Press the soft key Execute once the new firmware has been loaded and checked.

Wait until the update process is finished.



Interruption of the power during the update process can make the interface HO732 unusable!

4 Customer Support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz equipment, contact one of our Customer Support Centers. A team of highly qualified engineers provides telephone support and will work with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz equipment.

Up-to-date information and upgrades

To keep your instrument up-to-date and to be informed about new application notes related to your instrument, please send an e-mail to the Customer Support Center stating your instrument and your wish. We will take care that you will get the right information.

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