LabVIEW driver history for the R&S® RTH Handheld Digital Oscilloscope

Driver Documentation

Products:

| R&S®RTH

Driver history for LabVIEW

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ROHDE&SCHWARZ

Table of Contents

1 Supported Instruments

In the following table, the supported R&S instruments and firmware versions are listed:

Which instruments are supported?		
Current revision of instrument driver supports these instruments and firmware versions:		
Instrument	**Supported Firmware**	**Remarks**
RTH	1.80	

2 Installation of the LabVIEW driver

Before you start the installer, please close your LabVIEW application.

2.1 Installation on a Windows machine

The driver is distributed as a WinZip self-extracting executable file. Installer supported operation systems: WinXP, Win7, Win8, Win10.

Preconditions:

- LabVIEW 2010 or newer installed
- Any VISA installed – R&S VISA 5.5.4 or newer / NI VISA 5.4 or newer

When you start the driver WinZip installer, the following steps are being performed:

1. Unpacking of the driver's **instr.lib** and **user.lib** directories content as well as the **Installer.vi** into a temporary folder: **C:\temp\rsrth-lv-1.80.0**
   The driver is compiled in LabVIEW 2015 64-bit. From there you can copy to another location or run the **Installer.vi** manually later. The content of the temporary folder is not deleted after the installation is finished. Starting the same installation again will overwrite the data in this temporary folder.

2. After unpacking, the **Installer.vi** is automatically started in the last opened version of LabVIEW.
   In case you have more than one version of LabVIEW installed on your machine, make sure that the last opened LabVIEW version is the one in which you want to use the driver. If that's not the case, cancel the installation at this point, open and close your desired LabVIEW version and run the installer again. You can have the driver installed parallel for more LabVIEW versions by repeating the installation process for each desired version.

3. On the installer options page you have a choice to uncheck the **Mass-compiling** option (**not recommended, because of the driver's performance penalty as well as VIs opening times**) and also you can change the location of the **instr.lib** part of the driver. **user.lib** part must be placed in the default location, otherwise the Express VI configuration will not function.
   On this page you also see the actual LabVIEW version.
   Hitting **Next** button will first delete the old driver (if it existed), copy the new driver and mass-compile it.

4. The LabVIEW is closed and after starting it again the driver is ready for use.

2.2 Installation on a non-Windows machine

In case you would like to install the driver on a non-Windows machine, use a Windows machine to start the driver's WinZip self-extracting executable file. **This machine doesn't need to have LabVIEW installed.**

After the **Step 1** from the previous chapter is finished, copy the content of the temporary folder to your target machine and start the **Installer.vi** manually.
From that point onwards, the installation process is the same as described in the previous chapter Steps 2, 3, and 4.

3 LabVIEW driver history

LabVIEW Instrument Driver		
Driver history		
Revision	Date	Note
1.80.0	09/2021	* Update for RTH FW 1.80 * New Core 7.3.0 * New: - Configure Preselected Record Length.vi - Configure Waveform Update.vi - Configure Probe Settings.vi - Configure Polarity Invertion.vi - Configure CAN Trigger FD Bits.vi - Configure CAN Trigger Byte Offset.vi - Configure CAN Trigger Stuff Count Error.vi - Configure SENT Trigger Type.vi - Configure SENT Trigger Data.vi - Configure SENT Trigger ID.vi - Configure SENT Trigger Status.vi - Configure SENT Trigger Error Conditions.vi - Configure Hardcopy Inverse.vi - Configure App Path.vi - Configure App Persistence.vi
1.0.0	05/2017	* Initial Release for the RTH firmware 1.60

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Certified Quality System
ISO 9001

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