

# Release Notes

Revision: 01

## R&S<sup>®</sup> FS-Z10 Coherence Unit

### PC Software Release 1.2 SP1

These Release Notes describe the following models and options of the R&S<sup>®</sup> Coherence Unit:

- R&S<sup>®</sup> Coherence Unit, order no. 1171.6509.02

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# 1 Revision History

Date	Rel. Note rev.	Changes
20 August 2009	1.0	First version for PC Software Release 1.1
24 August 2010	1.1	First version containing Remote Control Support
03 December 2010	1.1 SP 1	Enhanced functionality
10 May 2012	1.2	Support of Microsoft Windows 7 and the R&S SMBV
01 August 2012	1.2 SP 2	Fixed Autolevel Routine for FSQ and FSL

## 2 Installation Information

### 2.1 System Requirements

The following system configuration is recommended for the use of the R&S FS-Z10 coherence unit PC software:

- Operating System: Microsoft Windows XP Professional (+ SP2)
- Free Hard Disk Space: 100 MB
- Free RAM:  $\geq 1$  GB
- Graphics Resolution:  $\geq$ XGA (800x600 pixel)
- Measuring instrument connection:
  - Hardware: IEC/IEEE bus or LAN connection
  - Software: VISA driver, National Instruments VISA version  $\geq 4.2$ , Agilent IO Libraries Suite 15.1 or higher

### 2.2 Software Installation

For successful installation of the coherence unit PC software you need to

1. prepare your PC
2. install the R&S FS-Z10 PC software

## 2.2.1 Preparing the PC

The following steps show how to set up the PC for running the coherence unit PC software.

1. Make sure that the Microsoft .NET Framework 2.0 is properly installed on your system.
2. Make sure that the Intel IPP Library is properly installed on your system.
3. Make sure that VISA is properly installed on your system.

Details on each installation step can be found in the following sections.

### 2.2.1.1 Install Microsoft .NET Framework Version 2.0

You need to install Microsoft .NET Framework 2.0 or a later version in order to use the Coherence unit PC software.

#### Check whether the .NET Framework is already installed.

1. Navigate to the installation location (usually the CD-ROM drive).
2. Start `\install\Microsoft .NET Framework 2.0\Check for .NET Installed.exe`

A message box tells you if the .NET Framework is installed or not. If not, start `\install\Microsoft .NET Framework 2.0\dotnetfx.exe` and follow the instructions.

### 2.2.1.2 Install Intel IPP

The coherence unit remote software makes use of the Intel IPP library. To install the library perform the following steps:

1. Navigate to the installation location (typically the CD ROM drive).
2. Start `\Install\IntelIPP\Intel IPP Library Version 4.1\setup.exe` and follow the instructions on the screen.

### 2.2.1.3 Install VISA

In order to make communication to the instruments possible, VISA (Virtual Instrument Software Architecture) must be installed. This driver allows you to access instruments connected via IEEE/IEC bus or LAN bus to the PC.

1. If a National Instruments IEEE/IEC bus card or any other National Instruments hardware or National Instruments software is used, please visit <http://www.ni.com/visa> to get the latest version for the installed operating system.
2. If an Agilent IEEE/IEC card is used, please visit <http://www.agilent.com> and search for the latest VISA version for the installed operating system.
3. If neither a National Instruments nor Agilent hardware or software is available, please contact Rohde & Schwarz for information on how to get an up-to-date VISA version.

## 2.2.2 Installing the coherence unit PC software

After installing all required components, the coherence unit PC software can be installed. In order to start this installation process:

1. Navigate to the installation location (typically the CD ROM drive).
2. Start \\Install\CoherenceUnitSoftware\_1\_2\_SP1.exe and follow the instructions on the screen.

The software will install the following:

1. The coherence unit PC software itself including an uninstall tool.
2. A start menu entry in "Programs → R&S Coherence Control".
3. A desktop shortcut "R&S Coherence Control".

After the installation is completed, the software can be started from the start menu entry or via the desktop shortcut.

## 2.2.3 Uninstalling the coherence unit PC software



Before uninstalling the components, make sure that no other software uses one of the components.

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All installed components (coherence unit PC software and additional components) can be uninstalled using the "Add or Remove Software" function from the Windows Start menu in "Start -> Settings -> Control Panel -> Add or Remove Software".

The following components are removed by the uninstallation process of the coherence unit PC software:

- Rohde & Schwarz coherence unit PC software.

## 3 New Functions

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

Version	Function
V1.1 SP1	Possibility to average over several calibrations to get more stable calibration results.
V1.1 SP1	Possibility to prevent the auto-level routine from setting an RF attenuation of 0dB. This ensures optimal matching of the cables between the FS-Z10 and the analyzers.
V1.2	Support of Microsoft Windows 7
V1.2	Support of the Rohde&Schwarz SMBV as reference signal generator
V1.2	Support of the Rohde&Schwarz FSW as master or slave analyzer

## 4 Improvements

The following table lists the improvements and indicates the version in which the issue was observed for the first time:

Version	Function
V1.1 SP1	Improved algorithm for controlling the reference generator in case of external attenuation being used.
V1.1 SP1	It is no longer required to open the settings window once manually before controlling the software via remote.
V1.2	The calibration process has been improved
V1.2	The user manual is now part of the installation and can be started directly from inside the FS-Z10 software.
V1.2 SP1	Autolevel routine now works correctly with all R&S FSQ and R&S FSL spectrum analyzers

## 5 Modifications to the Documentation

The new and modified functions mentioned in these release notes are already documented. Except the below mentioned last minute changes you can find the description including remote commands in the online help or in the manual. The manual can be downloaded from the internet under: <http://www.rohde-schwarz.com>.

Currently no last minute changes to the operating manual exist.

# 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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