

# R&S® ETL-K950/DSA-K950 TVSCAN2.0

## Release Notes

## Software Version 1.3.0.0

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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® ETL-K950/DSA-K950 is abbreviated as R&S ETL-K950/DSA-K950.

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# 1 Information on the Current Version and History

## 1.1 Version 1.3.0.0

### Software package contents

#### Contents

TVSCAN2.0 installation tool

### New Functionality

#### Functions

Support of R&S DSA with firmware version 3.3.0 or newer

### Modified Functionality

#### Functions

None

### Improvements

#### Improvements

None

### Known Issues

#### Known-Issues

None

## 1.2 Version 1.2.0.0

### Software package contents

#### Contents

TVSCAN2.0 installation tool

### New Functionality

#### Functions

Initial release

**Modified Functionality**

**Functions**

Initial release

**Improvements**

**Improvements**

Initial release

**Known Issues**

**Known-Issues**

None

## 2 Modifications to the Documentation

The current documentation is up-to-date.

## 3 Software Installation and Update

R&S TVSCAN2.0 is a software package that runs on a computer with the MS Windows operating system.

The software consists of three applications:

- The configuration tool to prepare and configure measurements.
- The measurement tool to capture data with a TV analyzer.
- The visualization tool to analyze the captured data.

The configuration tool and visualization tool are free for use. Capturing data with the measurement tool requires an option key.

### 3.1 Validity Information

Device	Order Number
R&S ® ETL-K950	2112.0479.02
R&S ® DSA-K950	2118.8236.02

### 3.2 Installation and Update Information

#### System Requirements

##### Installation on a 64-bit System (incl. the Visualization Tool)

- 64-bit operating system:
  - Microsoft Windows 7, Windows 8, Windows 8.1 or Windows 10
  - 64 bit Linux distribution - we recommend using Ubuntu 16.0.4, root permission is required
- OpenGL ES 2.0 driver
- Quad core processor with at least 2.5 GHz clock rate (for example Intel i5)
- At least 8 GB RAM
- Database requirements:
  - SQLite: at least 2 GB of free memory on the hard disk
  - Postgres data base version 9.00 or higher

##### Installation on a 32-bit System (excl. the Visualization Tool) for Installation on an R&S ETL

- 32-bit operating system
  - Microsoft Windows 7, Windows 8, Windows 8.1 or Windows 10
- Dual core processor with at least 1 GHz clock rate
- At least 2 GB RAM
- Database requirements:
  - SQLite: at least 2 GB of free memory on the hard disk

- Postgres data base version 9.00 or higher

#### Installation on an R&S DSA

TVSCAN2.0 (excl. the Visualization tool) is preinstalled on an R&S DSA with firmware version 3.3.0 or newer.

### 3.3 Installing or Updating the Software

#### Installing R&S TVSCAN2.0 on a Windows System

R&S TVSCAN2.0 is available as a 64-bit version and a 32-bit version. Use the version appropriate for your system.

1. Download the R&S TVSCAN2.0 installer from the product homepage.  
To find the installer,
  - search for the term "TVScan"
  - visit the product homepage of the R&S ETL or R&S DSA directly:  
<https://www.rohde-schwarz.com/product/etl>  
<https://www.rohde-schwarz.com/product/dsa>**Note:** You can install R&S TVSCAN2.0 on a PC or on an R&S ETL.
2. Optional: To install the measurement tool on one of the instruments, copy the installer to a memory stick and plug it into the USB interface of the instrument. For both instruments, always use the 32-bit version.  
**Note:** Do not install the configuration tool and the visualization tool on an instrument. Especially the visualization tool will not run with the instrument hardware.
3. Run the installer "TVSCAN2.0\_Setup\_ ... .exe".  
The installation wizard guides you through the installation process.  
Wait until the installation is done. The installer indicates a finished installation by turning green. Do not select "Exit" before the installer user interface turns green.  
When installation is done, three shortcuts become available on the desktop:
  - One for the configuration tool.
  - One for the measurement tool.
  - One for the visualization tool.

#### Installing R&S TVSCAN2.0 on a Linux System

TVSCAN2.0 uses the following directories:

- Program binaries: /usr/local/bin/Rohde-Schwarz/TVSCAN2.0
- Working directory: /var/Rohde-Schwarz/TVSCAN2.0

**Note:** Make sure to have root permission when you are installing the software.

1. Download the R&S TVSCAN2.0 tar archive from the product homepage.  
To find the archive,
  - search for the term "TVScan"

- visit the product homepage of the R&S ETL or R&S DSA directly:  
<https://www.rohde-schwarz.com/product/etl>  
<https://www.rohde-schwarz.com/product/dsa>
- 2. Extract the tar file "TVSCAN2.0\_Setup\_...\_Linux.tar" on your Linux system.
- 3. Open the terminal inside the extracted folder "TVScan2.0\_Sources"
- 4. Make the bash script executable by executing "sudo chmod +x ExtractTVScan2.0.sh"
- 5. Execute "sudo ./ExtractTVScan2.0.sh" to install the application.
- 6. Start application

**Note:** You need root permission to run the software.

There are three executables inside '/usr/local/bin/Rohde-Schwarz/TVScan2.0/bin/':

- TvScanConfiguration
- TvScanMeasurement
- TvScanVisualization

If you want to start TvScanMeasurement for manual operation you must pass "-gui" as argument.

### Installing the Option Key

Before you can use the measurement tool to collect data from the R&S ETL or R&S DSA, you have to install the option key on the instrument.

- ▶ For a comprehensive description about installing option keys, refer to the instructions delivered with the option.

### Uninstalling R&S TVSCAN2.0

Windows: To uninstall the software, use the "Apps & Features" or "Programs" tool (Windows, the name of the tool depends on the Windows version).

Linux: Delete the following directories:

/usr/local/bin/Rohde-Schwarz/TVSCAN2.0

/var/Rohde-Schwarz/TVSCAN2.0



## 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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