# R&S®Broadcast Drive Test
# Release Notes
# Software Version 03.20

ROHDE & SCHWARZ

# Table of Contents

# 1 Information on the Current Version and History

## 1.1 Version 03.20

Released: July 2018

**New Functionality**

● R&S ETL: K370 DTMB (Chinese terrestrial) measurements supported

## 1.2 Version 03.13

Released: October 2015

Documentation updated.

## 1.3 Version 03.12

Released: April 2013

**Fixed Issues**

● Possibly too many attenuation adaption related invalid measurements, if one analyzer handled more than one signal
● R&S ETL: Preamplifier configuration error if drive test started with a very high input level (>-33 dBm)
● R&S ETC, R&S ETH: Some certain analyzer configurations could cause invalid echo pattern measurements
● KMZ export: The KMZ output file was not written to the user defined directory, but the application directory instead, if multiple drive test result input files had been selected

**Known Issues**

● Drive test result .(dtr) files created by software version 3.12 cause software version 1.00 to crash on access.
=> Replace all software versions 1.00 by version 3.12

## 1.4 Version 03.10

Released: February 2013

**New Functionality**

- R&S ETL: Support of R&S TSMX-PPS2 GPS receiver
- R&S ETL: New measurement mode with less attenuation adaption, if no direct adjacent channels are present
- KMZ export: Multiple drive test result (.dtr) input files with same RF standard and frequency can be combined into a single KMZ output file
- KMZ export: Added two new spot indicators to also represent average or best values occurred within an area apart from the default indicator for the worst value
- KMZ export: Selection of measurements, colors, indicators and maximum zoom resolution for the output file
- KMZ export: Possibility to change level unit and to assign a manual k-factor or level offset
- CSV export: Multiple input files can be selected even with different RF standards or frequencies

**Modified Functionality**

- KMZ export: Runs 10 times faster

**Fixed Issues**

- R&S ETL: Preamplifier was never used if drive test started with a very high input level (>-33 dBm)
- KMZ/CSV export: K-factor was not always taken into account for field strength results
- CSV export: Value precision exceeded measurement precision

**Known Issues**

- Drive test result .(dtr) files created by software version 3.10 cause software version 1.00 to crash on access.
  => Replace all software versions 1.00 by version 3.10


## 1.5  Version 03.00

Released: November 2012

**New Functionality**

- R&S ETC Compact TV Analyzer supported (DVB-T, ISDB-T & DVB-T2)
- R&S ETL: ATSC Mobile DTV measurements supported
- R&S ETL: DVB-T2 MISO echo pattern measurement supported
- R&S ETL: Partial ISDB-T layer reception supported
- R&S ETL: DAB / T-DMB C/N measurement supported
- R&S ETL: ATSC 'FEC Sync required' setting supported
- R&S ETL: BCDRIVE can be launched using the MODE key
- All measurements in a KMZ file are available in all three spot sizes
- Support of different color profiles for KMZ files
- Interpolation of missing GPS coordinates (e.g. in tunnels) for KMZ files
- Level, sync & GPS status update also during stopped or paused drive test

**Modified Functionality**

● The 32 bit edition now also runs on 64 bit operating systems. Thus the 64 bit edition 'R&S Broadcast Drive Test 64' is no longer needed and therefore discontinued (see chapter 3.4)
● R&S ETL, R&S ETC: Improved precision of GPS speed measurement
● R&S ETL does not support 10 MHz channel bandwidth for DVB-T2
● Improved file selection for export of drive test result files
● Faster KMZ file export
● Improved drag & drop behavior for the signal selection view
● During drive test: Display of remaining memory instead of maximum speed
● Improved remote control efficiency

**Fixed Issues**

● R&S ETL: Possibly absolute instead of relative levels in DVB-T2 echo pattern
● R&S ETL: Possible freeze or timeout of GPS configuration dialog
● R&S ETH: Possibly wrong indication of supported mobile measurements
● R&S ETH: Did not initialize correctly when running in certain spectrum modes
● On some systems, connected TV analyzers could not be detected
● Possible timeouts when scanning multiple frequencies with high level offset
● Possible wrong analyzer initialization, if different analyzer types were detected
● Although the speed unit was set to [mph], export was still done in [km/h]
● On some systems, dialog fonts were displayed in the wrong size
● Some message boxes caused a high CPU load
● .csv export files lacked a carriage return character before the line feed character

**Known Issues**

● Drive test result .(dtr) files created by software version 3.00 cause software version 1.00 to crash on access.
=> Replace all software versions 1.00 by version 3.00

## 1.6  Version 02.00

Released: December 2011

**New Functionality**

● R&S ETH Handheld TV Analyzer supported (DVB-T & ISDB-T)
● R&S ETL: Mobile measurements and Multi-PLP supported for DVB-T2
● R&S ETL: Stationary measurements supported for analog TV standards
● R&S ETL: Sync measurement for FM stereo standards
● R&S ETL-B310 option supported for DVB-T2
● GPS configuration for R&S ETL or R&S ETH

**Modified Functionality**

● Exported KMZ files are processed significantly faster by Google Earth and require 60% less disk space

**Fixed Issues**

● TV analyzer IP addresses ending on '.235' or higher were not handled properly
● Incorrect handling when more than five TV analyzers were detected
● Erroneous share indication for parameter results within .kmz files
● R&S BCDRIVE did not execute on 64 bit operating systems

**Known Issues**

● Drive test result .(dtr) files created by software version 2.00 cause software version 1.00 to crash on access.
  => Replace all software versions 1.00 by version 2.00

# 1.7  Version 01.00

Initial release: July 2011

# 2  Modifications to the Documentation

The current documentation is up-to-date.

# 3 Installation and Update

Your Broadcast Drive Test software as well as updates are provided:

● On the Rohde & Schwarz Home Page
  https://www.rohde-schwarz.com/software/bcdrive/
● By Rohde & Schwarz service centers or sales offices.

## 3.1 System Requirements

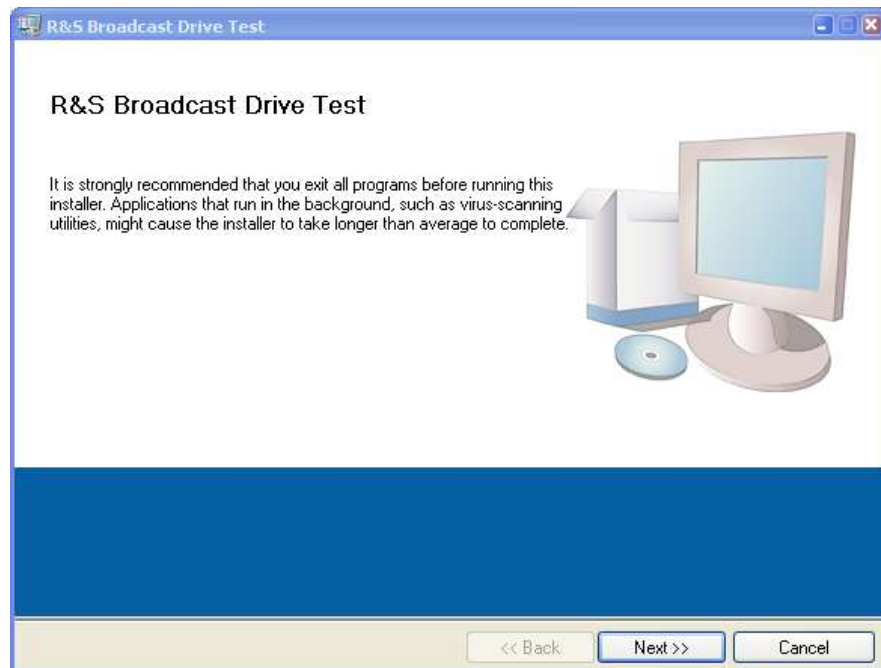The R&S Broadcast Drive Test software can be installed on an R&S ETL or a computer.

**Computer**

● Windows© XP SP2 / Vista / 7 / 8 operating system (32 bit / 64 bit)
● Administrator rights (for installation)
● Pentium© processor or equivalent at 600 MHz or higher
● 512 Mbyte free memory space
● 20 Mbyte free hard disk space,
  plus a minimum of 500 Mbyte for recording (USB drive can also be used)
● Minimum screen resolution VGA (640 x 480), 256 colors
● Ethernet connection for remote control via LAN
  Mandatory for use with R&S ETH or R&S ETC
  In case of use with R&S ETL, the Ethernet connection is required if not executed on the R&S ETL itself or to control additional R&S ETLs

## 3.2 Installing the Software

1. If the installer is delivered as a *.zip archive, extract the contents.

2. Copy the R&S Broadcast Drive Test software installer files to any drive that is accessible for your R&S ETL or computer (e.g. local drive, network drive or connected memory stick).

3. Double-click the "setup.exe" file. The setup dialog box is displayed.

4.    Click "Next >>" to accept the default target directories.

5.    Click " Next >>" to begin the installation.

      The installation process is started.

6.    Follow the instructions of the Setup Wizard.

## 3.3  Uninstalling the Software

To uninstall the R&S Broadcast Drive Test software, perform the following procedure:

1.    In the "Start" menu, select "Control Panel", then "Software", then "Add or Remove Programs".

2.    Select "R&S Broadcast Drive Test Test".

3.    Click "Remove".

## 3.4  Updating the Software

Your personal settings are preserved.

1.    In case of an existing 64 bit edition ('R&S Broadcast Drive Test 64'), uninstall this software manually beforehand.

2.    Install the new software version as described under "Installing the Software".

      If there is already an older version of the 32 bit edition installed, it will be uninstalled automatically.

# 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.

**Europe, Africa, Middle East**
Phone +49 89 4129 12345
customersupport@rohde-schwarz.com

**North America**
Phone 1-888-TEST-RSA (1-888-837-8772)
customer.support@rsa.rohde-schwarz.com

**Latin America**
Phone +1-410-910-7988
customersupport.la@rohde-schwarz.com

**Asia/Pacific**
Phone +65 65 13 04 88
customersupport.asia@rohde-schwarz.com

**China**
Phone +86-800-810-8828 / +86-400-650-5896
customersupport.china@rohde-schwarz.com