R&S®ETL-K470
CDR Signal Analysis Software
PC software for detailed RF analysis of convergent digital radio (CDR)

Analyzing all common Chinese terrestrial radio and TV signals with the R&S®ETL TV analyzer

The R&S®ETL supports detailed analysis of TV and radio signals in line with various standards – via internal demodulators. In addition, the new PC software now provides analysis capabilities for convergent digital radio (CDR) (GY/T 268.1 2013) in combination with a PC or laptop. This allows signals to be analyzed in line with all common terrestrial Chinese TV and radio standards (analog TV, FM radio, DTMB and CDR) with a single test receiver.

Highlights

CDR capture hardware, R&S®ETL
- 50 Ω and 75 Ω input
- Optional preselector
- High measurement precision (MER up to 47 dB)
- Settable reception frequency

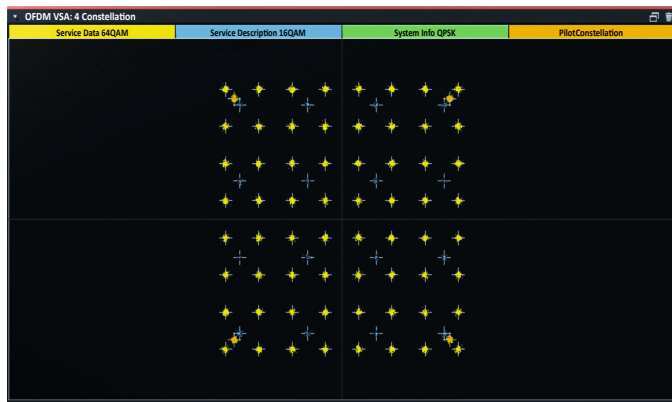**Analysis software, R&S®VSE based**
- Extensive analysis functions
- Simple configuration
- Flexible arrangement of multiple measurement windows

Main applications
- Transmitter setup and maintenance
- R&D of transmitter and receiver components
- Field tests
- Coverage measurements (stationary operation)

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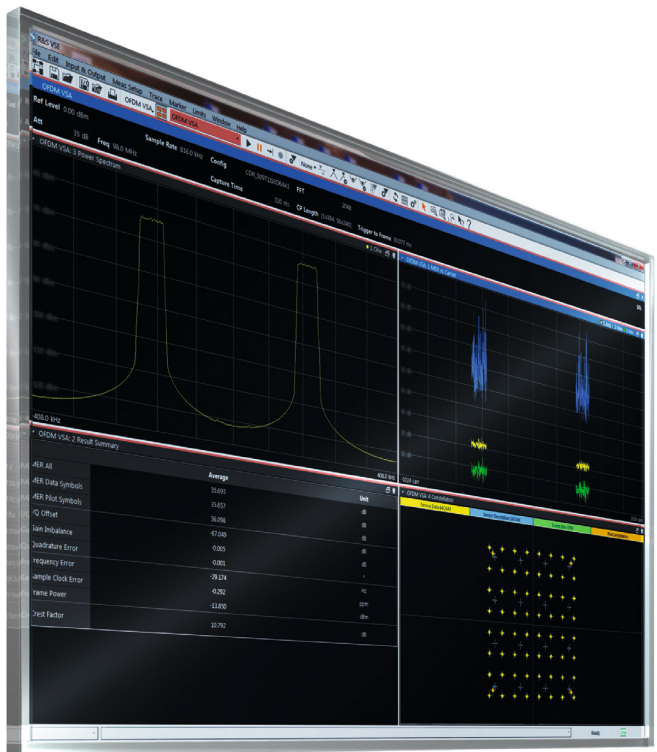
Constellation diagram (representing service data, service description, system info and pilots)

MER versus carrier (average, minimal and maximal values)

Extensive analysis functions

▪ Result summary for quick overview:
  MER (data, carrier and all symbols), I/Q offset, gain imbalance, frame power, crest factor and quadrature, frequency and sample clock error
▪ Detailed analysis via measurement graphs:
  MER, power and constellation versus symbol/carrier, channel flatness, group delay, impulse response and CCDF

Simple configuration

▪ Complete CDR configuration by just a few settings:
  · Spectrum and transmission mode
  · Modulation of service description and data
  · Use of hierarchical coding
▪ Automatic filtering of potential FM signal component
▪ Automatic optimization of internal RF attenuator and preamplifier

See also
www.rohde-schwarz.com/product/etl
(R&S®ETL data sheet PD 5213.7748.22,
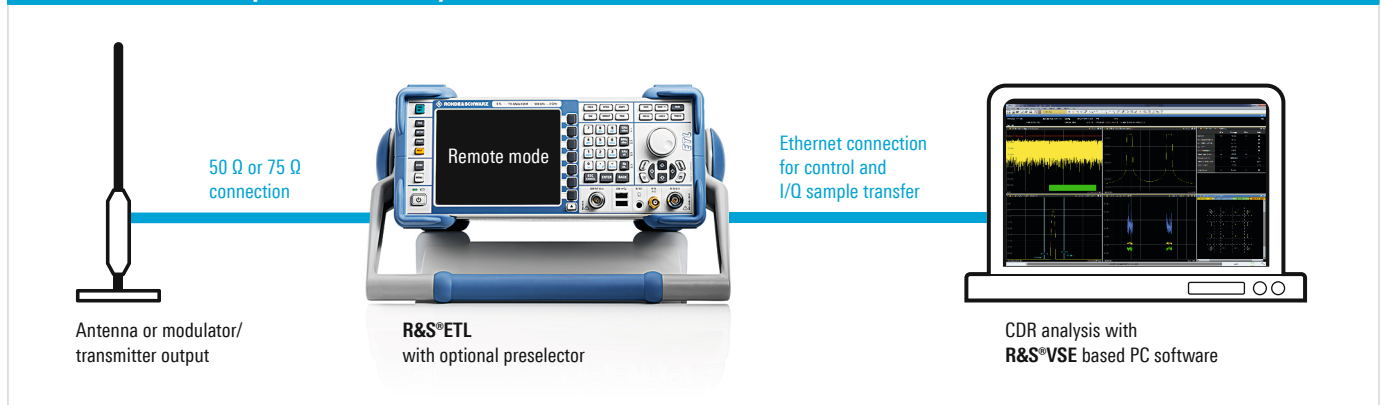R&S®ETL product brochure PD 5213.7748.12)

System requirements (PC)

Operating system	Windows 7 64 bit/Windows 10 64 bit
Hard disk space	5 Gbyte
RAM	≥ 4 Gbyte
CPU	min. 1.5 GHz (> 2.5 GHz recommended)
Graphics resolution	≥ 1280 × 1024 pixel

Ordering information

Designation	Type	Order No.
TV analyzer, 500 kHz to 3 GHz, with tracking generator	R&S®ETL	2112.0004.13
CDR signal analysis software	R&S®ETL-K470	1346.8884.02
Optionally		
RF preselector and 75 Ω input	R&S®ETL-B203	2112.0327.03

Measurement setup for CDR analysis

50 Ω or 75 Ω connection

Ethernet connection for control and I/Q sample transfer

Antenna or modulator/ transmitter output

R&S®ETL with optional preselector

CDR analysis with **R&S®VSE** based PC software

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