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)
### 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


### System requirements (PC)

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Windows 7 64 bit/Windows 10 64 bit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard disk space</td>
<td>5 Gbyte</td>
</tr>
<tr>
<td>RAM</td>
<td>≥ 4 Gbyte</td>
</tr>
<tr>
<td>CPU</td>
<td>min. 1.5 GHz (&gt; 2.5 GHz recommended)</td>
</tr>
<tr>
<td>Graphics resolution</td>
<td>≥ 1280 x 1024 pixel</td>
</tr>
</tbody>
</table>

### Ordering information

<table>
<thead>
<tr>
<th>Designation</th>
<th>Type</th>
<th>Order No.</th>
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</thead>
<tbody>
<tr>
<td>TV analyzer, 500 kHz to 3 GHz, with tracking generator</td>
<td>R&amp;S®ETL</td>
<td>2112.0004.13</td>
</tr>
<tr>
<td>CDR signal analysis software</td>
<td>R&amp;S®ETL-K470</td>
<td>1346.8884.02</td>
</tr>
<tr>
<td>Optionally</td>
<td>RF preselector and 75 Ω input</td>
<td>R&amp;S®ETL-B203</td>
</tr>
</tbody>
</table>

### Measurement setup for CDR analysis

- Remote mode
- 50 Ω or 75 Ω connection
- Antenna or modulator/transmitter output
- R&S®ETL with optional preselector
- Ethernet connection for control and I/Q sample transfer
- CDR analysis with R&S®VSE based PC software

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R&S®ETL-K470 CDR Signal Analysis Software
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