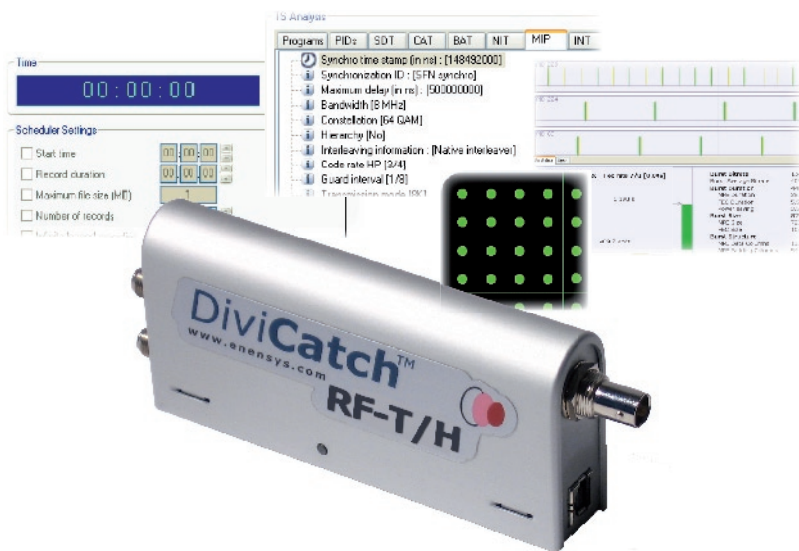


# DiviCatch™ RF-T/H

## DVB-T & DVB-H Live RF Analyzer



**The DiviCatch RF-T/H is a Pocket Analyzer cumulating DVB-T and DVB-H RF live reception with MPEG2 TS real-time analysis and recording.**

DiviCatch RF-T/H is a compact DVB-T and DVB-H analyzer. The product combines 3 levels of real-time analysis:

**RF measurements:** Key RF parameters (MER, SNR, etc.) and constellation are shown in real-time.

**MPEG2-TS monitoring:** The 3 priority levels of ETR290 are implemented, bitrate can be monitored globally and for each service, and customizable alarms are available.

**DVB-H analysis:** Table parsing includes DVB-H specific INT, bursts and delta-t information can be monitored in real-time and DVB's preferred ratios for Quality of Restitution (MFER and FER) are indicated for each PID.

In addition, DiviCatch RF-T/H features live stream **capture** capabilities. The application also integrates a video decoder enabling real-time **decoding** of all unencrypted services.

Combined with a third-party ESG client (DVB-IPDC), DiviCatch application validates proper reception and shows **ESG** rendering.

Eventually, the **GPS** option turns the DiviCatch RF-T/H into the must-have companion for coverage and drive tests.

As DTTV and Mobile TV deployments keep multiplying worldwide, DiviCatch RF-T/H, a 2-in-1 product featuring both RF and DVB-ASI inputs, offers a cost-effective test solution for field, lab or head-end applications.

### Applications

- Broadcast Test & Measurement
- RF Reception Quality Measurement
- Installation & Maintenance
- Head-End Monitoring
- Coverage & Drive Tests

### Benefits

- 2-in-1 product: RF + Baseband
- Compact and USB-self-powered device
- Receive live DVB-T & DVB-H signals
- Validate the quality of reception & transmission
- Evaluate the Quality of Restitution (MFER & FER ratios)
- Analyse DVB-H layer in real-time
- Output coverage maps with GPS capability (opt.)

### Characteristics

- 1 RF input for DVB-T and DVB-H
- Full DVB-H (4K FFT mode & 5MHz)
- 1 ASI input
- RF key measurements
- Graphical constellation display
- TR 101 290 validation (aka ETR290)
- PIDs, PSI/SI parsing
- Advanced MPEG2-TS recording
- MPEG2-TS over IP forward

### Options

- GPS receiver for synchronizing RF measurements with geographical coordinates

# DiviCatch™ RF-T/H

## DVB-T & DVB-H Live RF Analyzer

### Input Interfaces

#### RF input

Standards	DVB-T & DVB-H
Connector	1x F-type (female) - 75 Ω
Frequency range	UHF and VHF (45 - 864 MHz)
Sensitivity	-80 to -8 dBm
Channel bandwidth	5, 6, 7 & 8 MHz
FFT Mode	2k, 4k, 8k
Modulation	QPSK, 16QAM, 64QAM + hierarchical *

#### RF loopthrough

Connector	1x F-type (female) - 75 Ω
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#### DVB-ASI

Connector	1x BNC (female) - 75 Ω
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### RF Measurements

All measurements are made in **real-time**

Constellation	Diagram display
Signal level	56 to 100, expressed in dBμV
SNR	0 to 24, expressed in dB
Bit Error Rate	Pre-Viterbi, Post-Viterbi, Post-RS
Modulation Error Rate	0 to 38, Typical 34, expressed in dB
Error Vector Magnitude	Expressed in %

### Baseband Transport Monitoring

All features are monitored in **real-time**

#### TR 101 290

Priorities 1, 2 and 3 implemented

#### Service information

PSI/SI table display for DVB services

PSIP table display for ATSC services

#### Bitrate monitoring

Overall, by program or PID by PID

#### PCR Jitter

PCR Jitter Accuracy graphs (real-time, history and density)

### Services Processing

MPEG2/MPEG4 services decoding (unencrypted programs)

Recording of the entire multiplex to a TS file

Real-time forward of the entire multiplex to an IP address

### DVB-H Layer Analysis and Processing \*

Real-time burst view and burst structure information  
Delta-t and jitter information  
MFER and FER  
ESG decoding (SDP automatic extraction, Bootstrap status, etc.)  
De-encapsulation from DVB-H (with PID filtering capability)

### GPS feature (optional)

External GPS receiver (USB self-powered)  
Export of log files and coordinates to CSV format  
Customizable logging information

### Environment

Operating temperature	0 to 55°C / 0 to 122 °F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Humidity	0 to 95%, non condensing

### Physical and Power

Length	134.7 mm / 5.3 in.
Height	61.45 mm / 2.42 in.
Width	27 mm / 1.06 in.
Power supply	USB2.0 self-powered

### Ordering codes

DVB-T RF Analyzer	<b>DiviCatch RF-T</b>
DVB-T + DVB-H RF Analyzer	<b>DiviCatch RF-T/H</b>
GPS feature	<b>NN6-GPS</b>



\* not available with DiviCatch RF-T