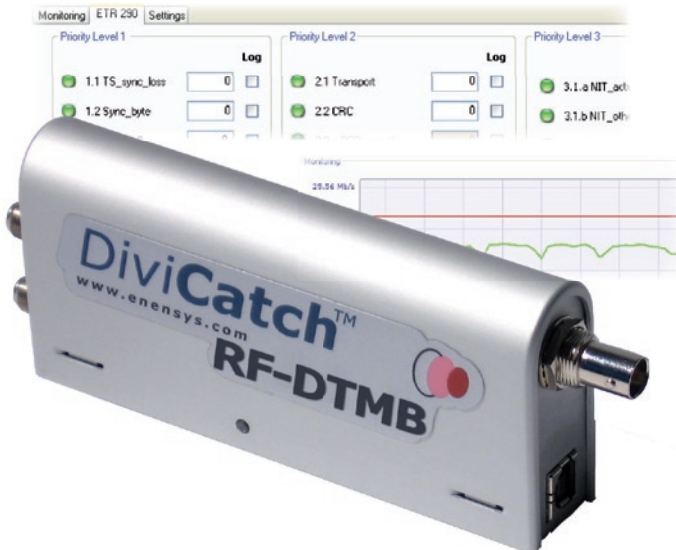


# DiviCatch™ RF-DTMB

## DTMB Live RF Analyzer



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

DiviCatch RF-DTMB is a compact DTMB analyzer. The product combines 2 levels of real-time analysis:

**RF measurements:** Key RF parameters (Signal Level, SNR, etc.) are shown in real-time with custom thresholds for triggering log messages.

**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.

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

Eventually, the **GPS** option turns the DiviCatch RF-DTMB into the ideal compact and robust companion for coverage and drive tests.

With the expected boom of DTMB (GB20600-2006) services in China before and along the 2008 Olympic Games in Beijing, DiviCatch RF-DTMB, a 2-in-1 product featuring both RF and DVB-ASI inputs, is the must-have cost-effective test solution for field, lab or head-end applications.

### Applications

- Broadcast Test & Measurement
- Troubleshoot Assistance
- 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 & record live DTMB signals
- Validate the quality of reception & transmission
- Validate conformance of SFN signalling
- Output coverage maps with GPS capability (opt.)

### Characteristics

- 2 RF inputs for DTMB (GB20600-2006): 1xUHF and 1x VHF
- 1 ASI input
- RF key measurements
- TR 101 290 validation (aka ETR290)
- PIDs, PSI/SI parsing
- SIP packets parsing
- Advanced MPEG2-TS recording
- Stream analysis from RF, ASI or Ethernet
- MPEG2-TS over IP forward

### Options

- GPS receiver for synchronizing RF measurements with geographical coordinates

# DiviCatch™ RF-DTMB

## DTMB Live RF Analyzer

### Input Interfaces

#### RF input

Standards	DTMB (GB 20600-2006)
Connectors	2x F-type (female) - 75 Ω
Frequency range	Full UHF and VHF 174-245MHz & 470-862MHz
Channel bandwidth	7 & 8 MHz
Code Rate	0.4, 0.6, 0.8
Guard Interval	420, 595, 945
Modulation	4QAM-NR, from QPSK to 64QAM Single- and Multi-Carrier

#### DVB-ASI

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

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

Signal level	30 to 100, expressed in dBμV
SNR	0 to 37 @64QAM, expressed in dB
Bit Error Rate	Pre-LDPC (up to 10 <sup>-9</sup> )

### Baseband Transport Monitoring

MPEG2-TS features monitored in **real-time** from either source:

- ASI or RF through USB from the DiviCatch
- IP stream through Ethernet from the PC

#### TR 101 290

Priorities 1, 2 and 3 implemented

#### Service information

PSI/SI table display  
SIP frame parsing for SFN networks

#### 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

### GPS feature (optional)

External GPS receiver (SIRFIII, 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.
Weight	165g
Power supply	USB2.0 self-powered

### Ordering codes

DTMB RF Analyzer	<b>DiviCatch RF-DTMB</b>
GPS feature	<b>NN6-GPS</b>



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