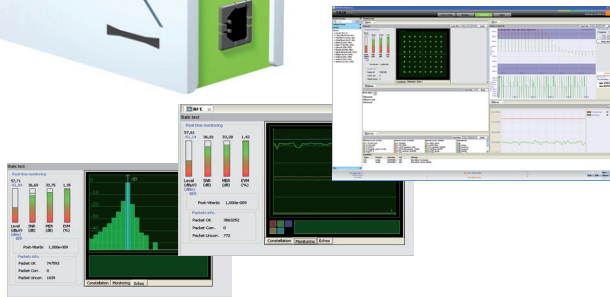


# DiviCatch™ RF-C

## Digital Cable Live RF Analyzer



- To save your own finest analyzer
- To test applications
- To validate both RF & Baseband
- To achieve cost-efficiency on broadcast network

### Applications

- Broadcast Test & Monitoring
- Digital Cable Troubleshooting
- RF Reception Quality Measurement
- Installation & Maintenance
- Head-End Monitoring

### Benefits

- 2-in-1 product: RF + Baseband
- Receive live Digital Cable signals
- Validate / Analyze MPEG2 TS Layer in real-time
- Validate the quality of reception / transmission
- All modulation schemes supported (from QPSK to 256-QAM)
- Add your own tables and your specifications Analysis (PSI/SI,PSIP,..)
- Fit for worldwide Digital Cable modes (ITU-J83)
- Compact and robust for facilitated access to street cabinets
- Cost-effective and powerful equipment for head-end monitoring

### Characteristics

- 1 RF input for Digital Cable (ITU-J83)
- ITU-J83 Annexes A, B & C supported
- 1 DVB-ASI input
- IP Source analysis
- IP Output (Ethernet interfaces selection)
- RF key measurements
- Graphical constellation display
- TR 101 290 validation (aka ETR290)
- PIDs, PSI/SI & PSIP parsing
- Advanced MPEG2-TS recording
- MPEG2-TS over IP forward

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

DiviCatch RF-C is a compact Digital Cable analyzer. The product combines 2 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.

In addition, DiviCatch RF-C features live stream capture capabilities. The application also integrates a video decoder enabling real-time decoding of all unencrypted services (including MPEG4 / H264).

Enensys has implemented a new software : DiviSeries All in One Software. It allows to check any Divis applications on a new and very intuitive GUI. Divicatch monitoring screens can be totally customized and loaded. User can also save file analysis (offline analysis available).

As the number of Digital Cable TV subscribers keeps increasing worldwide, DiviCatch RF-C, 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.

# DiviCatch™ RF-C

## Digital Cable Live RF Analyzer

### Input Interfaces

RF input	
Standards	ITU-J83, Annexes A, B & C
Connector	1x F-type (female) - 75 Ω
Frequency range	50 - 900 MHz (125kHz step)
Sensitivity	-75 to -10 dBm
Channel bandwidth	6 & 8 MHz
Symbol rate	0.87 to 7 Msymbols/s
Modulation	QPSK, 16QAM, 64QAM, 128QAM & 256QAM
RF loopthrough	
Connector	1x F-type (female) - 75 Ω
DVB-ASI	
Connector	1x BNC (female) - 75 Ω

### RF Measurements

All measurements are made in real-time

Constellation	Diagram display
MER	15 to 38 dB
EVM	0 to 100 (in %)
Signal level	33 to 99 dBμV
SNR	17 to 41 dB
Bit Error Rate	Pre-Reed-Solomon
Echoes	Diagram display

### Baseband Transport Monitoring

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

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

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

- Overall Jitter and Jitter Accuracy graphs

Compatible Windows vista 32

### 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

### 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	156g / 0.34 lb.
Power supply	USB2.0 self-powered

### Ordering codes

Digital Cable RF Analyzer	DiviCatch RF-C
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