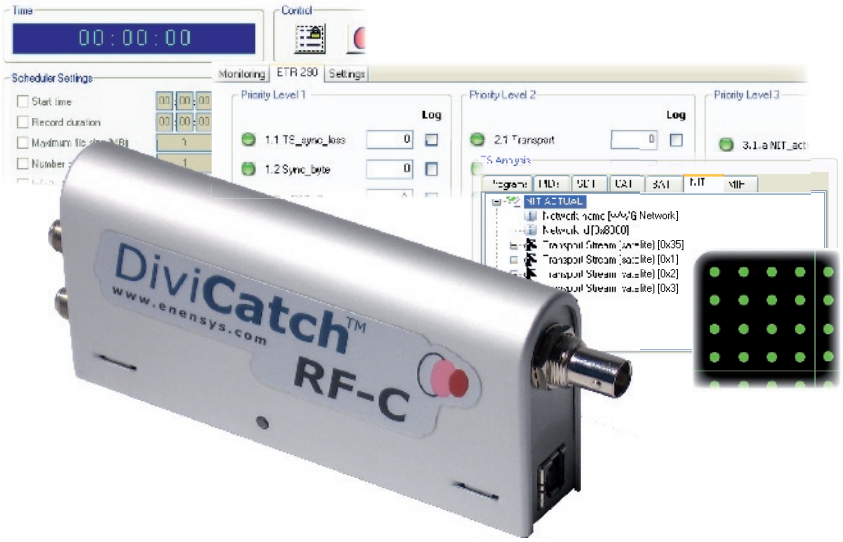
# DiviCatch™ RF-C

## Digital Cable Live RF Analyzer



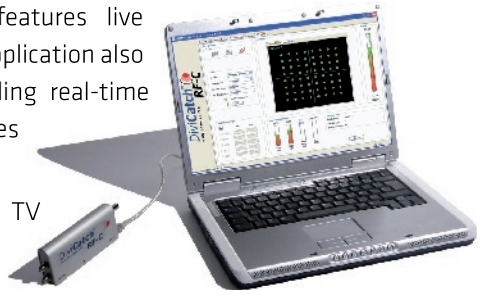

**The DiviCatch RF-C is a Pocket Analyzer cumulating Digital Cable RF live reception with MPEG2 TS real-time analysis and recording.**

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-T/H features live stream **capture** capabilities. The application also integrates a video decoder enabling real-time **decoding** of all unencrypted services (including MPEG4 / H264).



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.

## Applications

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

## Benefits

- 2-in-1 product: RF + Baseband
- Compact and USB-self-powered device
- Receive live Digital Cable signals
- Validate the quality of reception & transmission
- 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
- 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

Copyright 2003-2007 ENENSYS Technologies S.A. - ENENSYS name and logo are registered trademarks of ENENSYS Technologies S.A.
DVB is a Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)
ENENSYS Technologies reserves the right to change the specifications without notice

DVB ID 4938

# 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, expressed in dB |
| EVM | 0 to 100 (in %) |
| Signal level | 33 to 99, expressed in dBµV |
| SNR | 17 to 41, expressed in dB |
| Bit Error Rate | Pre-Reed-Solomon |
| Echoes | Diagram display |

## 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**
Overall Jitter and Jitter Accuracy graphs

## 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*** |

RoHS 2002/95/EC

ENENSYS Technologies
Le Germanium
80 avenue des Buttes de Coesmes
35700 Rennes
FRANCE
Office (+33) 1 70 72 51 70
Fax (+33) 2 99 36 03 84
contact@enensys.com

Copyright 2003-2007 ENENSYS Technologies S.A. - ENENSYS name and logo are registered trademarks of ENENSYS Technologies S.A.
DVB is a Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)
ENENSYS Technologies reserves the right to change the specifications without notice