DIVICATCH







DIVICATCH RF-C™



Your own world's finest Analyzer

THE **DIVICATCH RF-C** IS A **POCKET ANALYZER**CUMULATING DIGITAL CABLE RF LIVE RECEPTION WITH
MPEG-2 TS REAL-TIME ANALYSIS AND RECORDING.

The DiviCatch RF-C provides **real-time analysis** at different levels:

- **RF**: measures key RF signal parameters (Level, MER, SNR, BER) and indicates the modulation parameters and constellation as well as the Channel Impulse Response.
- **MPEG-2 TS**: the 3 priority levels of ETSI TR 101 290 are implemented. Bitrate can be analyzed globally, by service, by PID. Alarm thresholds are customizable. Baseband streams can be captured using the **ASI input** or the PC's **IP input**. File-based **offline analysis** is also available.

The events and trends analyzed over time can be stored into **report files**.

In addition, the DiviCatch RF-C can be used as a **gateway** which retransmits the RF signal **over RF output loop** and the baseband stream **over IP**.

ENENSYS TESTSYSTEMS has implemented a new and very intuitive GUI, DiviSuite, which provides customizable monitoring screens. The application integrates a video decoder enabling **real-time decoding** of all unencrypted services (**H.264/MPEG-4 AVC, MPEG-1/2, AAC, MP3...**). It also features live stream capture capabilities for baseband multiplex **recording** into a TS file.

The DiviCatch RF-C, a 2-in-1 product featuring both **RF + baseband analysis**, and **recording** capabilities, offers a cost-effective test solution for field, lab or head-end applications.

CHARACTERISTICS

1x RF input and 1x RF output loop for Digital Cable

ITU-J83 Annexes A, B, C supported

1x DVB-ASI input

IP source analysis (from PC)

RF key measurements: signal level, SNR, MER, BER, EVM

Graphical constellation, Channel Impulse Response display

PIDs and PSI/SI parsing, PCR graphs

ETSI TR 101 290 validation (Priority 1, 2, 3)

Audio/Video player (H.264/MPEG-4 AVC, MPEG-1/2, AAC, MP3...)

MPEG-2 TS recording

MPEG-2 TS over IP forward (PC's Ethernet interface selection)

Compatible MS Windows XP/Vista/7/8



- ☑ TO TEST APPLICATIONS
- ☑ TO VALIDATE BOTH RF & BASEBAND
- ☑ TO ACHIEVE COST-EFFICIENCY ON BROADCAST NETWORKS

APPLICATIONS

- R&D Streams or Signal Analysis
- Digital Cable Troubleshoot
- Installation & Maintenance Test Tool
- RF Reception Quality
- Portable Demonstration Setup

BENEFITS

- 2-in-1 product: RF/Baseband Analyzer + Recorder
- Compact (135 x 62 x 27 mm, 160 g) and USB self-powered device
- Receive live Digital Cable signals (ITU-J83 modes)
- All modulation schemes supported (from QPSK to 256QAM)
- Analyze/Validate MPEG-2 TS Layer in real-time
- Add your own table and specifications Analysis (PSI/SI, PSIP...)

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TECHNICAL CHARACTERISTICS

RF

Standards ITU-J83 Annexes A, B, C 1x F-type female - 75 Ω Connector In Connector Out (loopback) 1x F-type female - 75 Ω Sensitivity -80 to 5 dBm / 28 to 114 dB μ V Frequency range 50 to 900 MHz (125 kHz resolution)

Channel bandwidth 6 & 8 MHz

Modulation 16QAM, 64QAM, 128QAM, 256QAM

Symbol rate 0.87 to 7 Msymbols/s

DVB-ASI

1x BNC female - 75 Ω Connector In

Max bitrate 140 Mbps

USB Data connector 1x USB2 B-Type

Power supply USB self-powered

Environment

Operating temperature -20 to 55 °C / -4 to 131 °F

Physical

Dimensions 135 x 62 x 27 mm / 5.3 x 2.5 x 1.1 in

Weight 160 g

Monitoring view : RF, ETR, Logs



RF MEASUREMENTS

All measurements are made in real-time

Graphical display Constellation, Channel Impulse Response

Signal level -75 to -10 dBm / 33 to 99 dBµV

17 to 41 dB SNR MER 15 to 33 dB EVM 0 to 100 % **BER** Pre-RS

BASEBAND TRANSPORT MONITORING

MPEG-2 TS streams analyzed in real-time from either source:

- ASI or RF through USB from the DiviCatch
- IP from the PC's Ethernet interface

Or analyzed offline from source:

- TS file

ETSI TR 101 290

- Priorities 1, 2 and 3

Service information

- PSI/SI table display for DVB services
- PSIP table display for ATSC services
- PID Summary

Bitrate monitoring

- Overall, by Service (Program), by PID

- PCR Accuracy graphs

SERVICES PROCESSING

MPEG-4/AVC, MPEG-1/2 services decoding (unencrypted programs): video stream display

Recording of the entire multiplex (MPTS/SPTS) into a TS file Real-time forward of the entire multiplex to IP (unicast or multicast) over UDP streaming

ORDERING CODES

DiviCatch RF-C		DVB-C Analyzer Shipped bundled with DiviSuite software for MS Windows XP/Vista/7/8
Plugins	RF Scope	RF Analysis
	TS Analyzer	MPEG-2 TS Analysis
	T2MI Analyzer	T2-MI Analysis

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