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

### 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..)
TECHNICAL CHARACTERISTICS

RF
Standards: ITU-J83 Annexes A, B, C
Connector In: 1x F-type female - 75 Ω
Connector Out (loopback): 1x F-type female - 75 Ω
Sensitivity: -80 to 5 dBm / 28 to 114 dBµV
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
Connector In: 1x BNC female - 75 Ω
Max bitrate: 140 Mbps

USB Data connector
1x USB 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

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
- PCR Accuracy graphs

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

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
- T5 Analyzer
- T2MI Analyzer

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