The **DiviDual ASI** is a Pocket Analyzer providing Transport Stream (MPEG-2 TS, T2-MI, BTS) real-time analysis, recording and stream playing.

The DiviDual ASI provides *real-time analysis* at different levels:
- **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.
- **T2-MI**: complete multi-PLP analysis: T2 L1 pre/post signaling, PLP allocation, T2 timestamp, BB frame, ISSY field, PLP extraction. Baseband streams can be captured using the ASI input or the PC’s IP input. File-based *offline analysis* is also available.

The TS file player functionality allows to have an ASI output on the same device, which represents a real added value.

TestTree proposes a real-time analysis application, **DiviSuite**, running on **MS Windows**, connected to the DiviDual ASI via **USB connectivity**, with customizable monitoring screens. The application integrates a video decoder enabling *real-time decoding* of all unencrypted services (**H.265/HEVC, 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 DiviDual ASI, a 3-in-1 product featuring baseband analysis, recording and player capabilities, offers a cost-effective test and stream player solution for lab or head-end applications.

### Characteristics

- 1x DVB-ASI input and 1x DVB-ASI output
- IP source analysis (from PC)
- PIDs and PSI/SI parsing, PCR graphs
- ETSI TR 101 290 validation (Priority 1, 2, 3)
- T2-MI analysis: L1 pre & post signaling, T2 frame statistics, BB frame header, ISSY field, T2 timestamp
- BTS analysis: IIP Packet parsing, TMCC alarms
- PSIP table display for ATSC 1.0
- Audio/Video player (**H.265/HEVC, H.264/MPEG-4 AVC, MPEG-1/2, AAC, MP3…**)
- TS record and playback
- TS over IP forward (PC’s Ethernet interface selection)
- Compatible MS Windows XP/Vista/7/8/10
- USB self-powered, 140 g

### Applications

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

### Key Benefits

- 3-in-1 product: **Baseband Analyzer + Recorder + Player**
- **Compact** (pocket size, 140 g) and USB self-powered
- Analyze/Validate T2-MI, BTS and MPEG-2 TS Layer in real-time
- Add your own table and specifications Analysis (PSI/SI, TSIP…)
- A must-have Lab Tool
TECHNICAL CHARACTERISTICS

DVB-ASI
- Connector In: 1 x BNC female - 75 Ohm
- Connector Out: 1 x BNC female - 75 Ohm
- Max bitrate: 140 Mbps

USB Data connector: 1 x USB2 B-Type

Power supply: USB self-powered

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

Physical
- Dimensions: 115 x 62 x 27 mm / 4.5 x 2.4 x 1 in
- Weight: 140 g

BASEBAND TRANSPORT MONITORING

TS features analyzed in real-time from either source:
- DVB-ASI through USB from the DiviDual
- IP from the PC’s Ethernet interface
Or analyzed offline from TS file source

ETSI TR 101 290:
- priorities 1, 2, 3
- Service information
  - PSI/SI table display for MPEG, DVB, BTS; including private tables
  - PSIP table display for ATSC 1.0 services
  - Service components type and structure
  - PID summary
- T2-MI
  - T2 L1 pre/post signaling: frame, cells, OFDM symbols, # FEC, interleaving, TI block size
  - PLP allocation: BB frame padding, TS padding, TS overflow
  - BB frame, ISSY field, T2 timestamp
  - Single & Multi-PLP, PLP extraction
- Bitrate monitoring
  - Overall, by Service (Program), by PID

PCR Accuracy graphs

BASEBAND TRANSPORT PROCESSING

Audio/video decoding (unencrypted programs): stream display
- H.265/HEVC, H.264/MPEG-4 AVC, MPEG-1/2, AAC, MP3...

Recording of the entire multiplex (MPTS/SPTS, extracted PLP) into a TS file

Real-time forward of the entire multiplex to ASI or IP (unicast or multicast over UDP streaming)

TS files playback:
- Loop/segment play modes
- Stream playlist handling, bitrate auto-detection with PCRs
- Null packet removal

ORDERING CODES

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48HMAX SHIPMENT

All Options Bundle (TS + T2-MI)