

# DiviDual T2MI Multi Plp™

## T2MI Stream Player / Analyzer / Recorder



- Most complete T2MI Multi Plp Analyzer
- To validate T2MI packets
- To monitor by Plp
- To achieve cost-efficiency on T2 broadcast network

### The monitoring Expert Analyzer for DVB -T2MI

The DiviDual T2MI Multi Plp is a Pocket Analyzer with DVB T2-MI and MPEG2 TS real-time analysis, recording and stream playing. It integrates innovative DVB T2-MI analysis features. It's capable of receiving all PLP in the same time

The DVB-T2 Modulator interface (T2-MI) carries the DVB- T2 systems inputs, MPEG-2TS and/or generic streams, encapsulated within DVB-T2 Baseband Frame.

The new Dividual T2MI allows parsing of all T2MI parameters in real time, connected by PLP :

- BB Frame
- L1 Frame, pre and post signalling global and by PLP
- ETR 290, Bitrate, PCR by Plp
- Timestamp decoding ...

New specific monitoring windows allow to measure all common T2 features (T2 superframe, frame cells, OFDM symbols, ...)

For 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, DiviDual features live stream capture capabilities. The application also integrates a video decoder enabling real-time decoding of all unencrypted services

DiviDual T2MI Multi Plp takes advantage of the last software's update. It allows to check any DiviSeries applications on a new and very intuitive use. All monitoring screens can be totally customized and loaded.

As DTTV deployments in T2 standard keep multiplying worldwide, DiviDual T2MI Multi Plp offers a cost-effective test and stream player solution for lab or head-end applications.

### Applications

- R&D Streams or Signal Analysis
- Broadcast Test & Monitoring
- DVB-T2 gateway abd modulator producer
- Portable Demonstration Setup

### Benefits

- All-in-one device: Capture, analysis and playing baseband signals
- Validate and analyze DVB T2-MI and MPEG2 TS Layer in real-time
- Extract MPEG2-TS by PLP
- Display all services by PLP
- Monitoring view by PLP
- PLP filter
- Parse of all T2 parameters (BB Frame, L1 frame,...)
- Add table and specifications Analysis (PSI/SI,PSIP,..)
- Write and Save your own scripts
- Compact and USB-self-powered device

### Characteristics

- 1 DVB-ASI output
- 1 DVB-ASI input
- 1 DVB-SPI input/Output (optional)
- 1 USB 2.0 Interface
- TR 101 290 validation (aka ETR 290)
- MIP Validation
- PID summary, PSI/SI parsing
- MPEG 2-TS over IP streaming
- IP input
- IP Output (Ethernet interfaces selection)
- PCR Graphs
- Compatible Windows 7

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### Input Interfaces

DVB-ASI Connectors	2x BNC (female) - 75 Ω 10 Kbps to 214 Mbps
DVB-SPI (LVDS or LVTTL) Connector	1x D-Sub 25 10 Kbps to 108 Mbps

### Stream Recording & Playing

T2-MI Stream recording  
T2-MI Loop/segment play modes  
Off-line stream analysis  
Raw Data play mode  
Stream play-list handling  
Bit rate autodetection with PCRs  
PLP Filtering & Infos table

### Baseband Transport Analysis

TR 101 290  
- Priorities 1, 2 and 3 implemented  
- MIP Validation

#### Service information

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

#### Bitrate monitoring

Overall, by program or PID by PID

#### PCR Jitter

PCR Jitter Accuracy graphs (real-time, history and density)

### DVB-T2 Analysis

DVB T2-MI features monitored in real-time from either source:  
- ASI through USB from the DiviDual  
- IP stream through Ethernet from the PC  
DVB-T2-MI real-time analysis:  
- T2-MI parsing  
- BB Frame, L1 Frame, TimeStamp alarms,...)

### 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  
(unicast or multicast) over UDP streaming

### 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	115 mm / 4.5 in.
Height	62 mm / 2.4 in.
Width	27 mm / 1 in.
Weight	140g
Power supply	USB2.0 self-powered
Dual core mandatory	

### Ordering codes

DVB-ASI Play and Capture Device1      DiviDual T2MI

Shipped with software (Windows 2000/XP)

Distributor Contact



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