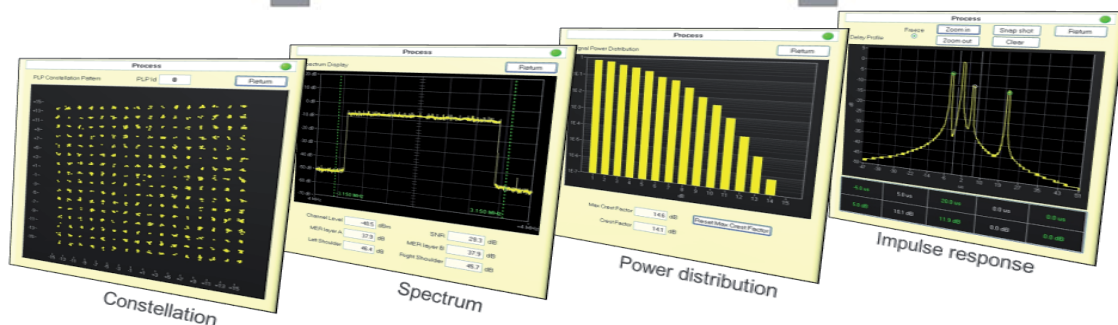


# ODYSSEY Signal Analyzer

Your solution to evaluate, qualify and analyze your DVB-T & DVB-T2 signals:

- R&D Laboratories
- Broadcasters
- STB Manufacturers
- Chipset Designers
- TV Channel Providers
- TX manufacturers



## Key features:

- DVB-T/T2 full and real time demodulation and measurements
- High level of MER measurement performance
- Advanced monitoring features: MER, Spectrum display, Constellation, SFN Window

## Description

Odyssey is a solution especially designed to discover, analyze, and qualify the last Terrestrial Digital TV standard: DVB-T2. STB & Chipset manufacturers need to have a reference tool to design & debug their products. Broadcasters are becoming more and more concerned by this new standard [ETSI EN 302 755 V1.1.1 (2009-09)] and need Odyssey to qualify the choice of their DVB-T2 modulators. TV Channel providers need to evaluate the gain in term of bitrate and C/N, offered by the DVB-T2, Odyssey gives them an overview of the MISO, multi-PLP gain.

## Comprehensive set of monitoring features

Odyssey provides a large choice in term of retrieved monitoring parameters and data. Typical RF signal performance figures such as Input level, MER, Signal to Noise ratio (C/N), Bit Error Rate and Packet or Frame Error Rate are collected in real-time. Furthermore, the user can upload more complex and added-value measurement data such as the RF signal spectrum display, the I/Q constellation diagram, the signal power bar graph as well as the SFN Window.

# ODYSSEY

## Signal Analyzer



## Specifications<sup>1</sup>

### ■ Standards

- o DVB-T/H: EN 300 744, EN 302 304
- o DVB-T2: EN 302 755, TS 102 831 EN 102 773
- o DVB-ASI: EN50083-9, ETSI TR 101 891,
- o MPEG-TS: ISO/IEC 13818-1

### ■ RF Input

- o 1 x N connector - 50 Ω
- o Input level: -30 dBm/ -90 dBm
- o 48 MHz to 862 MHz
- o Bandwidth: 6, 7 or 8 MHz

### ■ ASI Output

- o 1x BNC connector - 75 Ω
- o Format 188/204 bytes, Burst or Packet mode, 50 Mbps max

### ■ Measurement data

- o Signal Power Bar graph
- o SFN Window (5 main echoes)

### ■ Measurement displays

- o Channel Spectrum
- o Constellation Pattern
- o Channel Impulse Response (CIR)

### ■ Measurement probes

- o Full band input level: -10 dBm to -50 dBm
- o Channel Input level: -30 dBm to -90 dBm
- o Left and right shoulder: > 44 dB
- o Signal to Noise Ratio (SNR)
- o Carrier Frequency Offset (CFO)
- o MER: 15 dB to >36 dB
- o BER, PER (ISDB-T/TB)
- o Pre LDPC BER, Pre BCH BER, FER (DVB-T2)
- o MPEG-TS figures: TS\_Sync, Continuity\_count\_error, PCR jitter, PCR repetition and PTS difference

### ■ Display

- o Bright color transmissive TFT display
- o XGA resolution (1024\*768)
- o Embedded GUI controlled with a keyboard & mouse

### ■ Connectivity

- o 1 x RJ45 connector for Ethernet 10/100
- o 3 x USB connectors

### ■ Physical

- o Operating temperature range: 0°C to 40°C
- o Dimensions (LxH): LabForm: 350x230x250
- o Power supply: 90 to 250VAC - 47/63 Hz - 100VA maximum

## Ordering Information

XSML-SAN0-2010

ODYSSEY - Signal Analyser, DVB-T2 standard - Labform

<sup>1</sup> Specifications are not contractual and are subject to revision without notice.

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