QoS Monitoring & Facility Management

**POWERFUL PERFORMANCE**
- Highly accurate RF Measurements
- Full ETR290 MPEG-TS Analysis and Monitoring
- QoE: Analysis of Image Quality

**POWERFUL CONTROL**
- Complete Range of Diagnostic Tools
- Customizable Alarms and Notifications
- Advanced Telemetry and Facility Control

**POWERFUL SAVINGS**
- 24/7 Data Tracking & Access
- Reduced Downtime and Engineering Visits
- History, Trends for Protection of Network Investment
- Monitoring, Analysis and Telemetry in a Single Unit

www.worldcastsystems.com
Advanced Telemetry and Facility Management with ScriptEasy

ScriptEasy is the revolutionary facility control software developed by WorldCast Systems to give users the power and flexibility to create "Smart" sites; ones that can automatically take action to correct any critical errors that affect operations. Featuring an intuitive Graphic User Interface (GUI), ScriptEasy incorporates GPIO functions, serial communications, logic operators, live user inputs, timers and more. This allows the site operations to be “scripted”, to allow evaluation of multiple parameters and even automatically engage backup systems, while simultaneously alerting relevant technical personnel.

The innovative interface, consisting of the ScriptEasy Designer and the MasterView modules, supports easy development and allows real time status display and management.

Watch our new ScriptEasy video
Key Features

- Track real-time status of your signal 24/7/365
- Automatic band scanning to detect any RF intrusions or variations
- Real-time remote measurement and analysis of any station
- At-a-glance status view provides overview of all monitored stations
- SFN Monitoring: Network delay, impulse response
- Recorded measurements and logs for export & trend analysis
- Real-time audio/video streaming to your desktop
- Alarm management and monitoring for all main parameters
- Frozen & Monochrome Image Analyzer

One Month History and XLS Export

Analysis of Tables

Status Page with Running Alarms

Real Time RF Measurements

Cumulated Bit Rates Services

Real Time MPEG Content
Technical Features

**Technical specification**

- **RF Characteristics**
  - **Options**
  - Up to 20 Monitored Channels (+ MPLP for T2 channels)
  - Probe Mode (MER up to 42dB)
  - RF level, SNR level, MER level, BER, Shoulders …
  - Constellation, Power Graph
  - T2 and PLP Parameters
  - T2 – Lite
  - SFN (Echoes Management)
  - Spectrum Analyzer

- **MPEG2-TS/T2Mi**
  - ETR 101290
  - MPEG Data Information and Repartition
  - MPEG Error Counter, Jitter
  - Video Streaming (3 modes) & Thumbnails Control Display
  - Structure Content Analyzer (data, errors)
  - SID Rates, PID Rates
  - Frozen & Monochrome Image Analyzer
  - T2MI Decoding and Analysis

- **Logs**
  - TS and Video Recording
  - Events Filtering and Export
  - Measurement History

- **Advanced functions**
  - Multiple User Accounts
  - Remote Application
  - Embedded Web Server
  - SNMP Monitoring (MIB: Measurements, Alarms)
  - Factory Reset / Save / Restore / Maintenance User

- **DVB-T/T2**
  - **Options**
  - ETSI Standard
  - Frequency Bands
    - 50 MHz to 862 MHz
  - Return Loss
    - > 13 dB
  - Input Level
    - Channel: -75 to –30 dBm / Full band: -50 to –10 dBm
  - MER Level
    - Probe mode : up to 42dB
  - Network Mode
    - MFN / SFN
  - Frequency Tunable
    - Within VHF III and UHF IV-VI
  - Offset Selectable
    - Auto
  - ETR 101290
    - Yes
  - MISO / SISO
    - Yes
  - M-PLP
    - Yes
  - Channel Bandwidths
    - DVB-T: 7 and 8 MHz
    - DVB-T2: 5, 6, 7 and 8 MHz
  - FFT Size
    - DVB-T: 2c, 8x
    - DVB-T2: 1c, 2c, 4c, 8c, 16c, 32c, 64c
  - Guard Interval
    - DVB-T: 1/4, 1/8, 1/16, 1/32
    - DVB-T2: 1/128, 1/32, 1/16, 1/8, 1/4, 1/128 and 1/4
  - Code Rate (FEC encoding)
    - DVB-T: 1/2, 2/3, 3/4, 5/6, 7/8
    - DVB-T2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 or 7/8
  - Modulation
    - DVB-T: QPSK, 16QAM
    - DVB-T2: QPSK, 16QAM, 64QAM, 256QAM
    - rotated constellation
  - Hierarchical Mode
  - Supported
  - Adjacent Rejection
    - Digital > 30 dB / NorDig figures for QEF / MHz channel

- **SNMP**
  - SNMP (up to 4 IP addresses)

- **Email**
  - (1 user or group)

- **SMS**
  - (1 user or group)

- **Remote Facility Control**
  - Advanced Scripting Capabilities
  - Customized Remote View(s)
  - SNMP Concentrator (5 Devices)
  - SNMP Extension (5 Additional Devices)
  - RS232 / RS485 Drivers
  - Telemetry Boards (Status, Relays, Metering)

- **Hardware**
  - RF Input, ASI Input
  - ASI Output
  - 10 MHz
  - 1 PPS

- **Communication Ports**
  - Serial port, USB, Ethernet

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  - Email (1 user or group)

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- **GSM modem**
  - TF01174

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- **Telemetry Boards**

- **Technical specification are subject to change without prior notice – 09/2015**

**Order Information**

- **Standard Version**
  - Reference: TF00433-B0
  - Description: AUDEMAT DVB-T/T2 MONITOR

- **Software option**
  - CD00131: Picture Control
  - CD00130: SFN
  - CD00129: TS Structure
  - CD00140: T2-MI
  - CD00135: Spectrum Analyzer

- **On-demand**
  - ScriptEasy Drivers and SNMP Extension Licenses
  - Network Management Systems with Broadcast Manager

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  - Factory Reset / Save / Restore / Maintenance User

**Physical specification**

- **ETSI Standard**
  - ETSI EN 300 744 (DVB-T) / ETSI EN 302 755 (DVB-T2) 1.3.1 supported

- **Network Mode**
  - MFN / SFN

- **Frequency Tunable**
  - Within VHF III and UHF IV-VI

- **Offset Selectable**
  - Auto

- **ETR 101290**
  - Yes

- **MISO / SISO**
  - Yes

- **M-PLP**
  - Yes

- **Channel Bandwidths**
  - DVB-T: 7 and 8 MHz
  - DVB-T2: 5, 6, 7 and 8 MHz

- **FFT Size**
  - DVB-T: 2c, 8x
  - DVB-T2: 1c, 2c, 4c, 8c, 16c, 32c, 64c

- **Guard Interval**
  - DVB-T: 1/4, 1/8, 1/16, 1/32
  - DVB-T2: 1/128, 1/32, 1/16, 1/8, 1/4, 1/128 and 1/4

- **Code Rate (FEC encoding)**
  - DVB-T: 1/2, 2/3, 3/4, 5/6, 7/8
  - DVB-T2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 or 7/8

- **Modulation**
  - DVB-T: QPSK, 16QAM
  - DVB-T2: QPSK, 16QAM, 64QAM, 256QAM, rotated constellation

- **Hierarchical Mode**
  - Supported

- **Adjacent Rejection**
  - Digital > 30 dB / NorDig figures for QEF / MHz channel

**Order Information**

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