



Digital TV Signal Analyser

ISDB-T

ATSC

DVB-T



The C3, developed by TSDA, is an advanced tool for remote reception and analysis of digital TV signals (ISDB-T/DVB/ATSC).

It offers robust features such as Transport Stream analysis, customized alarm configuration, and scheduled channel scanning. This device allows the analysis and monitoring of up to 16 digital TV channels simultaneously in a single location.

Equipped with local recording features, the C3 can capture the complete Transport Stream, MPEG-4 samples with reduced resolution, and snapshots of each channel service, including audio levels and closed captions in the captured images. This enables detailed remote monitoring of one or more channels in a given location.

When monitoring multiple digital TV channels, the equipment allocates the analysis and recording

parameters of each channel to a specific memory area, allowing "virtually simultaneous" access to multichannel monitoring.

Fully configurable through an intuitive web interface and easily integrable via APIs and protocols such as SNMP, the C3 is designed to seamlessly integrate into any existing remote monitoring network. It stands out for its ease of integration with all systems developed by TSDA.

As an additional option, using the PIXEL VAULT feature, the device can historically record the snapshots captured for a period of up to 30 days, with configurable capture intervals. Furthermore, it is possible to apply image analysis routines and scripts using the OpenCV library to perform intelligent analysis of the captured images. With the C3, TSDA offers a complete and versatile solution for monitoring and analyzing Digital TV signals, simplifying management and ensuring the quality of the broadcast service.

Main Features

- Web interface with support for MULTIPLE USERS, enabling Multi-Channel monitoring
- Ability to create and manage customized access profiles for Multi-Channel monitoring
- Complete Transport Stream analysis, with an intuitive interface for visualizing relationships between PIDs, services, and other tables (PAT, NIT, SDT/BAT, TDT/TOT, etc.)
- Customized and individualized parameterization of alarms for each monitored channel (absence of services, PIDs, bitrates, etc.)
- Recording of short TRANSPORT STREAM segments for remote analysis - individualized for Multi-Channel monitoring
- Local storage of UP TO 30 DAYS OF SNAPSHOT HISTORY with programmable frequency, individualized for each monitored channel
- Intelligent analysis of stored static images through programmable scripts using an embedded OpenCV library
- Generation of JPEG/PNG snapshots (compressed static images) for each service of the monitored channel, individualized for multi-channel monitoring
- HDMI output and USB ports (mouse/keyboard) for local viewing of the WEB interface
- Recoding of each service of the monitored channel to MPEG-4, facilitating remote viewing in an individualized manner for multi-channel monitoring.

Technical Specifications

Plataform Technical Features

- Octa-Core 64-bit Processor – Up to 2.4GHz
- 4GB LPDDR4 RAM
- Integrated GPU and Hardware-Accelerated Image Processing
- 528GB NVMe SSD for storage
- 10/100/1000Gbps Ethernet Interface
- Video Encoding Support: H.265, H.264 (MPEG-4 AVC), MPEG-2
- Integrated Support for FFmpeg, OpenCV, and others

TUNER Technical Features (ISDB-T / DVB-T2 / ATSC)

- Support for 6/7/8MHz channels
- Reception Standards: ISDB-T Full-Seg / FULL DVB-T2 / ATSC
- USB 2.0 (2x) and USB 3.0 (2x) Interface
- Antenna Input: Standard 75 Ohms
- Power Consumption: < 30W

Web Interface



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