



c·cube

Digital TV Signal Analyzer

ISDB-T **ATSC** **DVB-T**

C³, developed by TSDA, is an advanced tool for remote reception and analysis of Digital TV signals (ISDB-T/DVB/ATSC). It offers robust functionalities such as Transport Stream analysis, custom alarm configuration, and scheduled channel scanning. This device allows for the analysis and monitoring of up to 16 Digital TV channels simultaneously at a single location.

Equipped with local recording capabilities, 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 at a location. When monitoring multiple Digital TV channels, the equipment allocates analysis and recording parameters for each channel to a specific memory area, allowing "virtually simultaneous" access to multi-channel monitoring.



Fully configurable via an intuitive web interface and easily integrable through APIs and protocols such as SNMP, the Signal Inspector 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 equipment can historically archive captured snapshots for 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 Signal Inspector, TSDA provides a comprehensive and versatile solution for monitoring and analyzing Digital TV signals, facilitating management and ensuring the quality of transmission service.

PRINCIPAIS CARACTERÍSTICAS

- ✦ Web interface with support for MULTIPLE USERS allowing Multi-Channel monitoring
- ✦ Ability to create and manage personalized access profiles for Multi-Channel monitoring
- ✦ Complete analysis of the Transport Stream, with an intuitive interface for viewing relationships between PIDs, services, and other tables (PAT, NIT, SDT/BAT, TDT/TOT, etc.)
- ✦ Customized and individualized alarm configuration for each monitored channel (absence of services, PIDs, bitrates, etc.)
- ✦ Recording of short segments of the TRANSPORT STREAM 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 Embedded OpenCV library
- ✦ Generation of JPEG/PNG snapshots (compressed static images) for each monitored channel service, individualized for multi-channel monitoring
- ✦ HDMI output and USB ports (mouse/keyboard) for local viewing of the WEB interface
- ✦ Recoding of each monitored channel service to MPEG-4, facilitating remote viewing individualized for Multi-Channel monitoring

TECHNICAL FEATURES

- ✦ 64-Bit Octa-Core Processor- up to 2.4GHz
- ✦ 4GB LPDDR4 RAM
- ✦ Integrated GPU and Hardware Image Processing Acceleration
- ✦ 528GB NVMe SSD for storage
- ✦ 10/100/1000 Gbps Ethernet Interface
- ✦ Video Encodings: H.265, H.264 (MPEG-4 AVC), MPEG-2
- ✦ Integrated Support for Ffmpeg, OpenCV, among others

TECHNICAL FEATURES OF THE TUNER (ISDB-T / DVB-T2 / ATSC)

- ✦ Reception Standards: ISDB-T Full-Seg / FULL DVB-T2 / ATSC
- ✦ USB Interface: USB 2.0
- ✦ Channel Support: 6/7/8 MHz
- ✦ Antenna Input: Standard 75 Ohms
- ✦ Power Consumption: < 1.5W

WEB INTERFACE

