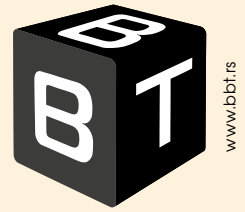


RT-AV150



Portable automated STB test system

Field Test system RT-AV150 is a portable automated STB test system intended for use in consumer homes for verification of an individual unit functionality. Typical deployments are in field service vehicle. It equips technicians with a powerful tool which performs basic functionality tests in order to diagnose possible malfunctions of customer's device.



Input interfaces

- Capture of SD, ED and HD video content up to 1080p60
- Wide variety of digital or analog A/V sources (SDI, HDMI, YPbPr, S-video and composite)
- On-the fly real time lossless compression up to 1080i60 video streaming
- Capture of digital or analog audio
- Measurement of electrical values:
 - LNB Voltage
 - Analog AV signal level
 - SCART Interface (pin8/pin16)
- Measurement of LNB frequency
- Support and compliance with consumer and professional audio and video standards
- Allows easy image capture or video streaming of multiple A/V signals into single computing server
- Automatic video signal and standard detection

Use cases

- Ideal for verification of STB/DVD/Blu-ray players devices in customer's homes or retailers offices
- Monitoring of head-end signal quality in broadcast systems

Features

- Real time capture of SD, ED and HD video content up to 1080p60 from wide variety of digital or analog A/V sources (HDMI, YPbPr, S-Video and composite)
- Automatic video signal and standard detection
- Captures and stores images or video sequences to internal memory for on device image processing
- Live preview through LAN interface
- Transfers grabbed images/video to host device (Tablet) for future analyzes
- Allows easy image capture or video streaming of multiple A/V signals into single computing server which can be spatially dislocated from video source
- Capture of digital or analog audio for 48 kHz with 24-bit resolution
- Sampling of analog video, audio and control signals up to 32MBPS for measurement of amplitude and temporal characteristics of signal
- Support and compliance with consumer and professional A/V standards
- DSP based platform which is capable to execute desired processing or analysis algorithm on captured audio and video content.
- Gigabit Ethernet connectivity allows (with on-the-fly compression) up to 1080i60 video streaming
- Voltage and frequency measurement on A/V inputs (CVBS, RGB, Line In, LNB etc.)
- Embedded remote control emulator

INTERFACES

Digital Video Input	HDMI, SDI
Analog Video Input	Composite, Component, S-Video, SCART
Supported HD Format	720p50, 720p59.94, 720p60, 1080PsF23.98, 1080p23.98, 1080PsF24, 1080p24, 1080PsF25, 1080p25, 1080PsF29.97, 1080p29.97, 1080PsF30, 1080p30, 1080i50, 1080i59.94, 1080i60, 1080p50 and 1080p60
Supported SDI formats	HD and SD SDI Receiver, with complete SMPTE Video and Audio Processing, as per SMPTE 425M, 292M and SMPTE 259M-C
Supported SD Format	625/25 PAL, 525/29.97 NTSC and 525/23.98 NTSC
HDMI Compliance	HDMI 1.3
Multiple Rate support	SDI, HDMI and component analog video connections are switchable between SD and HD. SDI switches between 270 Mb/s standard definition SDI and 1.5 Gb/s HD-SDI
Video Sampling	4:2:2
Color Precision	10 bit
Color Space	4:2:2 YUV
Digital Audio Input	S/PDIF (optical/coaxial), HDMI
Analog Audio Input	<ul style="list-style-type: none"> ADC - stereo system input and output (Stereo Audio, 24-bit, 96kHz, Multi-bit Sigma Delta ADC and Stereo 24-bit, 192kHz, Multibit Sigma Delta DAC) Multi channel I2S standard 4 signals interface (in and out)
HDMI Audio Input	<ul style="list-style-type: none"> Dolby Digital and DTS IEC60958 or IEC61937 compatible
LNB In/Out	F Connector with loop through
LAN	1000BASE-T Ethernet

EXTRAS

Operation mode	Standalone Device
System monitoring	PC application
Power supply	External 120W AC1005, 120-240V ~3A, Output 19V 6.3A, Power cord extender
Dimensions	38cmx28cmx10.5cm
Housing	Carrying case w/o carrying strap (55cmx50cmx17cm)
Optional equipment	Printer (report printer - Citizen CTS281), Bar Code scanner, Signal level meter

PROCESSING

Video processing	<ul style="list-style-type: none"> Lossless video compression (1:3) Real time video scaling for live video preview
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Package content

- Carrying case w/o carrying strap
- RT-AV150 Home Screen device
- Power cord extender
- Mini printer*
- Bar code scanner*
- Signal Level Meter*
- CD with utilities and documentation

- Control SW (Utility application)
 - Cables (HDMI, S/PDIF, LAN, CVBS, Multi AV input cable) and adapters (RCA to stereo Jack 3.5mm)
- *Optional

Software

- Standalone application for manual controlling of device under testing
- RT-Executor Home Screen application

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