

# VIRENZA-T+T2™

**Frequency Agile DVB-T and DVB-T2 Receiver and MPEG-2 and 4 and H.264 HD Decoder with DVB-T, DVB-T2, IP (with Pro-MPEG FEC), or ASI Input. Demodulates DVB-T or DVB-T2 Frequencies and Decodes Both H.264 and MPEG-2 Video Formats to SMPTE 259M (SD-SDI), SMPTE 292 (HD-SDI), or YPrPb. Supports AES-3 id Audio as well as MPEG-1/2, AAC, and AC-3. Supports BISS and Other CA.**



## Features

- Input: DVB-T, DVB-T2, IP, DVB-ASI
- Optional 2nd DVB-T+T2 RF input
- Supports Pro-MPEG FEC
- Includes CAM module and support for BISS
- Optional DVB-S+S2 or 8VSB input available
- Output: HD-SDI, SDI, DVB-ASI, YPrPb, RGB, composite, MPEG or AC-3 audio
- Signal from 75 ohm BNC connector
- May choose digital stream from DVB-T, DVB-T2, or IP signal
- Selected digital stream is supplied in DVB-T or DVB-T2 format signal
- Dual MPEG-2 (HD/SD) decoding, single MPEG-4/H.264 decoding (single audio decoding only)
- H.264 (MPEG-4) or MPEG-2 MP@HL compliant video decoder supplies digital and analog video signal
- Digital video signal compliant with SMPTE-259M or SMPTE-292M (SDI) with embedded 8 channel audio (SMPTE-299M)
- Dolby Digital® AC-3, HE-AAC, and MPEG-1/2 5.1 channel audio decoder
- Dolby Digital® AC-3 or PCM stereo audio selectable over BNC connector
- Dolby Prologic® compatible stereo audio output on one XLR connector and one D-Sub 9P connector
- RGB video signal with 1080i/720p/576p/ 576i (480i) video mode
- 2 Lines by 40 characters LCD display
- PSIP/EIA-608, 708 closed caption compliant
- Down converts HD input to SD out
- Firmware upgradeable via Internet or USB
- USB 2.0 Support
- SNMP (10/100 Ethernet) management support

## Applications

- Off air terrestrial receiver
- MPEG-2/4/H.264 HD Decoder
- HD-SDI file playback
- Content repurposing

## Overview

The **Virezza-T+T2** is a new generation Professional HDTV frequency agile DVB-T receiver that demodulates all terrestrial frequencies and supplies crystal clear digital or analog video with the DVB-T and DVB-T2 formats used by Broadcast Professionals in Europe, Asia, and parts of Africa and South America. It not only functions as a broadcast demodulator but also works extremely well as a professional H.264 and MPEG-2 decoder.

The output of the demodulator is available on DVB ASI connectors. With its IP, DVB-ASI, or its DVB-T/T2 inputs, it is able to decode transport streams up to 45 mbps. Designed to support all the industry standard forms of the DVB standard, it supports 576i/480i, 576p/480p, 720p and 1080i decoding. Supported video outputs include both digital and analog formats with HD-SDI with embedded audio, SDI, YPrPb, RGB, and composite. Audio support is via embedded audio or via XLR connectors.

Audio support includes analog audio output (L, R) on XLR's. For Dolby Pro Logic audio output there is a front panel control to enable Pro Logic surround sound audio on the two XLR's. For users looking for digital audio via PCM or compressed audio, the output TS via the BNC connectors and the outputs here are enabled via the MAIN/AUDIO/DIGITAL LCD menu. The compressed audio on the BNC has a Dolby AC-3 with 5.1 channels.



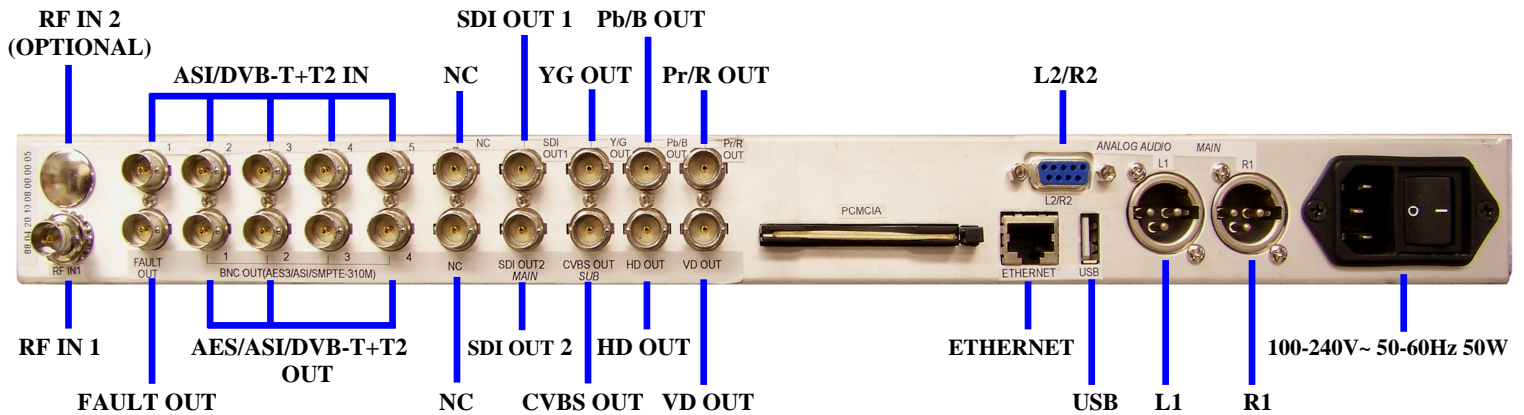
**Computer Modules, Inc.**

**11409 West Bernardo Court  
San Diego, CA 92127**

**Tel: (858) 613-1818 Fax: (858) 613-1815**

[www.dveo.com](http://www.dveo.com)

## Rear View



## Specifications

<b>Front Display/Keys</b>	
	2 lines by 40 characters LCD
	18 keys for Easy Control
	LOCK, ENTER, EXIT, ARROW, and Numeric Keys
<b>DVB-T or DVB-T2 RF Input</b>	
Channel:	6/7/8 MHz RF Selectable
Connector:	2 x 75 Ohm BNC-type Connector
Symbol Rate:	DVB-T: 10 ~ 30 Msps
<b>TS Input</b>	
Format:	DVB-T or DVB-T2
Connector:	75 ohm BNC
Note:	*Supports T2MI multiplexed streams
<b>TS Output</b>	
Format:	DVB-ASI
Connector:	75 ohm BNC
<b>Audio Output</b>	
Signal:	AES3-id (Select ASI or 310M or AES3-id output at front panel)
Connector:	75 ohm BNC
Format:	Dolby AC-3 audio with 5.1, AAC, MPEG 1/2, PCM
1st Audio Output:	Connector: XLR connector (AES 3-id)
2nd Audio Output:	Connector: D-sub 9p connector
<b>Digital Audio Output</b>	Choose either PCM mode or COMPRESSED audio output mode for MAIN channel. The chosen audio mode is used for all BNC output ports. You can have PCM mode only for the SUB channel.  You may have COMPRESSED audio out of MAIN channel over BNC port and PCM audio out of SUB channel over BNC port.

<b>Component Video Output</b>	
Formats:	1080i/720p/576p/480p/576i/480i
Connector:	BNC connector YPbPr/RGB Selectable
<b>Composite Video Output</b>	
Signal:	NTSC or PAL
Connector:	75 ohm BNC
<b>First Audio Output</b>	
Connector:	XLR connector
<b>2nd Audio Output</b>	
Connector:	D-sub 9P connector
<b>Digital Video Output (SDI)</b>	SMPTE299M or SMPTE292M with embedded audio
<b>Ethernet</b>	10/100 BT on RJ45
<b>USB 2</b>	Connector: Type "A"
<b>Fault</b>	Relay contact on signal loss
<b>Network Management</b>	NMS supported through SNMP
<b>CPU and RAM</b>	MIPS 300 MHz 32 bit RISC
<b>Unit</b>	1 RU 19-inch rackmountable
<b>Operating Temperature</b>	+0 ~ +45°C (32 to 113°F)
<b>Storage Temperature</b>	-20 ~ +70°C (-4 to 158°F)
<b>Operating Humidity</b>	20 to 80%
<b>Power Supply</b>	AC 100-240V ~ 50-60 Hz 50W Max
<b>Dimensions</b>	HxWxL: 1.7 x 19 x 13.6 inches (4.3 x 48.26 x 34.55 cm)
<b>Weight</b>	6 lbs. (2.72 kg)
<b>Conformities</b>	FCC, RoHS CE Mark: Electromagnetic Compatibility Directive 2004/108/EC, Low Voltage Directive 2006/95/EC

## Ordering Info

Virezza/T+ T2 – DVB-T+T2 Version  
 Virezza-T+T2/2RF – Optional 2nd DVB-T+T2 RF input  
 Virezza-S – DVB-S+S2 Version  
 Virezza-8VSB – 8VSB Version