

VIRENZA-8VSB™

Frequency Agile 8VSB Receiver and MPEG-2 and 4 and H.264 HD Decoder with 8VSB, IP (with Pro-MPEG FEC), or ASI Input. Demodulates 8VSB Frequencies and Decodes Both H.264 and MPEG-2 Video Formats to SMPTE 292M (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: 8VSB, IP, DVB-ASI
- Optional 2nd 8VSB RF input
- Supports Pro-MPEG FEC
- Includes CAM module and support for BISS
- 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 8VSB or DVB-ASI or SMPTE-310M or IP signal
- Selected digital stream is supplied in DVB-ASI and SMPTE-310M format signal
- Dual MPEG-2 (HD/SD) decoding, single MPEG-4/H.264 decoding (single audio decoding only)
- H.264 (MPEG-4)/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/8VSB** is a new generation Professional HDTV frequency agile 8VSB receiver that demodulates all terrestrial frequencies and supplies crystal clear digital or analog video with the 8VSB format used by Broadcast Professionals in the U.S. and South Korea. 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 either DVB-ASI or SMPTE 310M connectors. With its IP, DVB-ASI, or its 8VSB 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.



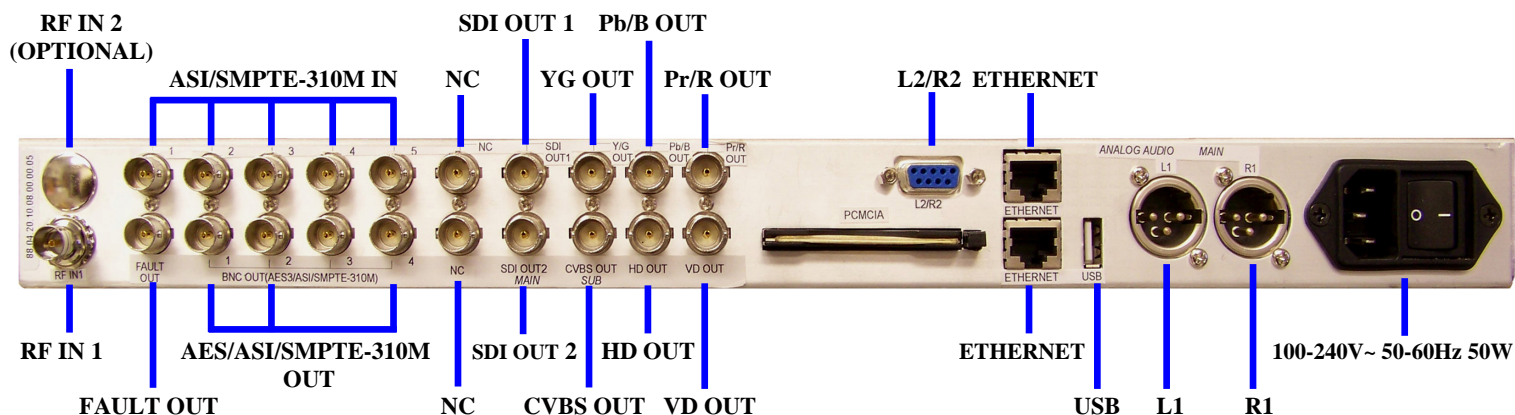
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Rear View



Specifications

Front Display/Keys	<ul style="list-style-type: none"> • 2 lines by 40 characters LCD • 18 keys for Easy Control • LOCK, ENTER, EXIT, ARROW, and Numeric Keys
8VSB RF Input	
Channel:	950-2150 MHz RF Selectable
Connector:	2 x 75 Ohm BNC-type Connector (DVB-T Option available)
Symbol Rate:	ATSC: 10.76 Msps
TS Input	
Format:	SMPTE 310M or DVB-ASI (Select ASI or 310M at front panel)
Connector:	75 ohm BNC
TS Output	
Format:	SMPTE 310M or DVB-ASI
Connector:	75 ohm BNC
Audio Output	
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
Digital Audio Output	<p>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.</p> <p>You may have COMPRESSED audio out of MAIN channel over BNC port and PCM audio out of SUB channel over BNC port.</p>

Component Video Output	
Formats:	1080i/720p/576p/480p/576i/480i
Connector:	BNC connector YPbPr/RGB Selectable
Composite Video Output	
Signal:	NTSC/PAL
Connector:	75 ohm BNC
Digital Video Output (SDI)	SMPTE299M/SMPTE292M with embedded audio
Ethernet	10/100 BT on RJ45
USB 2	Connector: Type "A"
Fault	Relay contact on signal loss
Network Management	NMS supported through SNMP
CPU and RAM	MIPS 300 MHz 32 bit RISC
Unit	1 RU 19-inch rackmountable
Operating Temperature	+0 ~ +45°C (32 to 113°F)
Storage Temperature	-20 ~ +50°C (-4 to 122°F)
Operating Humidity	20 to 80%
Power Supply	AC 100-240V ~ 50-60 Hz 50W Max
Dimensions	HxWxL: 1.7 x 19 x 13.6 inches (4.3 x 48.26 x 34.55 cm)
Weight	6 lbs. (2.72 kg)
Conformities	FCC, RoHS CE Mark: Electromagnetic Compatibility Directive 2004/108/EC, Low Voltage Directive 2006/95/EC

Ordering Info

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