

## VIDEO-TO-VIDEO SCAN CONVERTER FAMILY

# TECHNICAL SPECIFICATIONS

- Provides for conversion between RS-170, PAL, RS-343, and SVGA monochrome video
- Automatic detection of input standard
- Advanced scaling algorithm optimizes video quality
- Flexible packaging
- Internal test signal confirms proper operation or provides fault isolation

### BENEFITS

- Versatile; single unit converts between four different video standards
- Conversion to RS-170 or PAL provides for recording using standard TV recorders
- Conversion provides for viewing different videos using a single monitor
- Provides for compression using standard video/TV codecs



The VTV/875 family of scan converters provides for the conversion of monochrome video between four video standards: RS-170/525-lines, PAL/625-lines, RS-343/875-lines and SVGA/800x600. High-resolution sampling, in combination with an advanced scaling algorithm, ensures a near-optimum-quality video output. The scaling is implemented using multi-tap FIR filtering and advanced interpolation, both horizontally and vertically. The VTV/875 auto-detects the video input standard, whereas the output standard is user selectable.

The VTV/875 units are available in the following four configurations: 1) Model VTV/875R is a rugged unit designed for airborne and ground-mobile applications 2) Model VTV/875RM is a rack-mount box 3) Model VTV/875H is a half-rack box and 4) Model VTV/875 is a Compact PCI module.

All units include an internal test signal generator, which can be used to confirm proper operation or to provide for fault isolation.

**VIDEO-TO-VIDEO SCAN CONVERTER FAMILY****VIDEO INPUT**

**Ports** Three  
**Format** Composite/HD-SDI/VESA  
**Format** NTSC/PAL; RS-343; SMPTE-259/292;  
 RGBHV  
**Connector** SMC/Circular-MIL ( J1/J2 )

**VIDEO SCALING**

**Algorithm** Multi-tap Scaling w/ H & V Interpolation  
**Format** Interlaced & Progressive  
**Resolutions** 525i/625i/875i/720p/1080i/  
 1080p/800x600/1024x768  
**Frame Rate** 29.97/25/30/50/59.94/60

**VIDEO COMPRESSION**

**Algorithm** H.264 /MPEG-4 AVC ( Part 10 )  
**Format** H.264 High/Main/Baseline  
**Resolutions** 1080p/1080i/720p/875i/576i/480i/p  
**Frame Rate** 29.97/25/30/50/59.94/60  
**GOP Structure** Inter/Intra; Variable Size  
**Data Rate** 256Kbps to 12Mbps  
**TS Protocol** MPEG-2 Transport Stream  
 ISO/IEC 13818-1

**VIDEO OUTPUT**

**Ports** Four  
**Format** Composite ( 2x )/HD-SDI/VESA  
**Format** NTSC/PAL; RS-343; SMPTE-259/292;  
 RGBHV  
**Connector** SMC/Circular-MIL ( J1/J3 )

**NETWORK**

**Ports** One  
**Format** 10/100/1000 Ethernet IP  
**Configuration** DHCP or Static Address  
 Selectable Ports  
 Auto Sense Full/Half Duplex  
 Unicast/Multicast  
**Connector** Circular-MIL ( J4 )

**CONTROL**

**Ports** Two  
**Format** RS-232; TCP/IP  
**Protocol** Delta ' s 3-character mnemonics  
 Web Browser  
**Connector** Circular-MIL ( J1/J4 )

**ENVIRONMENTAL**

**Temp/Alt ( Op )** DO-160D, Section 4, Category D2  
 -40°C to +70°C  
**Temp/Alt ( Non-Op )** DO-160D, Section 4, Category D2  
 -55°C to +85°C  
**Humidity** DO-160D, Section 6, Category B  
 5%-95% RH, non-condensing  
**Vibration** DO-160D, Section 8, Category S,  
 Figure 8-3, Profile M  
**Shock** DO-160D, Section 7, Category A,  
 Figure 7-2, Operational  
 ( 6g, 11ms, sawtooth )

**EMI**

**MIL-STD-461E** CS101, CS114-116, RS103,  
 RE102, CE-102  
**DO-160E** Section 18, AF Conducted  
 Susceptibility  
 Section 21, Conducted Emissions  
 Section 22, Lightning Pin Injection  
 Level 3, Waveform 5A

**POWER**

**Volts** +28VDC  
**Watts** 15W  
**Connector** Circular-MIL ( J5 )

**SIZE / WEIGHT**

**Chassis** 1.75 " H x 4.75 " W x 9 " D / 2.5lbs.

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