

**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.

**A division of Delta Information Systems, Inc.**

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Questi prodotti sono distribuiti e supportati in Italia da:



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## VIDEO-TO-VIDEO SCAN CONVERTER FAMILY

### VIDEO INPUT

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

### VIDEO SCALING

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

### VIDEO COMPRESSION

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

### VIDEO OUTPUT

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

### NETWORK

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

### CONTROL

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

### ENVIRONMENTAL

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

### EMI

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

### POWER

<b>Volts</b>	+28VDC
<b>Watts</b>	15W
<b>Connector</b>	Circular-MIL ( J5 )

### SIZE / WEIGHT

<b>Chassis</b>	1.75 " H x 4.75 " W x 9 " D / 2.5lbs.
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