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 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/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

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
(6 g, 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.