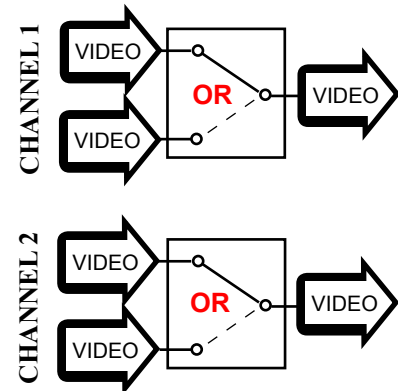## Composite Video Switch

FEATURES:

- Provides Real-Time Redundant Video Signals

- 15 MHz Video Bandwidth

- Meets RS-250C Short Haul Transmission Specifications

- NTSC, PAL, SECAM Compatible

- Provides Electrical as well as Optical Redundancy

- Compatible with Multimode and Singlemode System

- Surface Mount Technology (SMT) for High Reliability and Repeatability

- SpectraSmartTM Network Management Compatible

- Local LED Status Indicators to Monitor Critical System Diagnostics

- Hot Swappable Card

- Meets NEMA TS1 / TS2 & CALTRANS Specs.

- 75 Ohm BNC Video Connector (Gold Center Pin)

- Meets EIA RS-170, RS-343A Formats

DESCRIPTION:

The Meridian SX-2VS two-channel Video Switch represents a cost-effective breakthrough in video surveillance technology that helps ensure continuous and uninterrupted video monitoring in the event of a video signal failure. This switch is compatible with standard NTSC,PAL or SECAM video formats.Video feeds from two redundant electrical signals / paths are continuously monitored for signal strength and quality with the higher performance signal being selected and switched to the output for further processing, recording and viewing. Since this switch accepts electrical (coaxial) video input signals, it is compatible with both electrical and optical (IM, FM & digital) transmission system technologies. If the selected input were to experience a failure or signal degradation beyond the programmed limits, the switch would select the alternate video input as the preferred signal - thus providing continuous video monitoring. This switch provides a low-cost alternative to SONET rings that offer similar redundancy at a much higher equipment cost.

CONFIGURATIONS:

The SX-2VS product family is available as rack mount card that can be installed in all of Meridian's card chassis. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These products can be easily converted to a Standalone module with the SR-500/S - 1 Slot Chassis (24 VAC).See SR-500 brochure for further details.

MARKETS:

- √ Alternate to SONET rings
- √ Redundant Networks
- √ Security and Surveillance
- √ Intelligent Transportation System (ITS)
- √ Campus Lecture Networks

SPECIFICATIONS:

Video

Format	NTSC, PAL, SECAM
Voltage/Impedance	1 V p-p TYP.(2Vp-p, Max.) 75 Ohm
Bandwidth	5 Hz to 15 MHz @ -3 dB
Differential Gain	<0.5%
Differential Phase	<0.5°
SNR	>70 dB
Isolation	>60 dB
Field Tilt	<0.5%
Switching Time	<100 ms

Connectors

Video	75 Ohm BNC (Gold Center Pin)

Power

Card	2.5 Watts
Module	100 mA @ 24 VAC

Quality

MTBF	>200,000 hours @ Ground Fix 35°C per MIL217F

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	Diagnostics
4 - Green	Sync. Present
4 - Green	Video Present
4- Green	Active Port

Physical

Dimensions:

Card	20 (W) x 127 (H) x 160 (D) mm
	(0.8 x 5.0 x 6.3 inch)
Weight:	
Card	450 gms (16 Oz)
No. of Slots	One

Enviromental

Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing[*]

Model No.

SX-2VS . . . . 1 Slot Video Switch with 2 independent Channels

SX-2VS-D . . . . 1 Slot Video Switch with 2 independent Channels with Diagnostic option

* Add the suffix "C" at the end of the part number for extended condition for humidity control using conformal coating.

FIGURE 1
FIBER REDUNDANCY

FIGURE 2
ELECTRICAL & OPTICAL REDUNDANCY

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