



16333-B Raymer Street Van Nuys, CA 91406

Product Data Sheet (06/05/2020)

Switcher/Selectors

www.eoninstrumentation.com ISO9001:2015/AS9100D #C2015-02333 818-781-2185

3800 Oceanic Drive, #112 Oceanside, CA 92056







Selector

VMS-22 / VMS-24

VMS-22 (2 in 2 out) 2500 VMS-24 (2 in 4 out) 2510 VSA-103D (6 in 6 out) 1660 Video Selector Switch 1293 VMS -2020-3SP4 2400	0 - 300									
VMS-24(2 in 4 out)2510VSA-103D(6 in 6 out)1660Video Selector Switch1293VMS -2020-3SP42400	0 500									
VSA-103D (6 in 6 out) 1660 Video Selector Switch 1293 VMS -2020-3SP4 2400	0-300									
Video Selector Switch1293VMS -2020-3SP42400	0-300									
VMS -2020-3SP4 2400	3-300									
	0-300									
(20 in 20 out with 3 programmable										
video configuration cards)										

High Definition Video Matrix



General

Eon provides existing or customized Switcher/Selectors that process HD-SDI, DVI-D, HDMI, and DisplayPort. A corresponding analog family exists as well for (10hz - 30Mhz) video in fixed or switchable configurations. Please contact Eon's website for information and engineering staff about rugged military video products including switcher/selectors, converters, cameras, monitors and recorders. Eon's additional products include interference blankers, audio distribution systems, rugged power supplies, and system engineering programs.

Generic Description

The units have a variable number of inputs and outputs. 3G+ HD-SDI is the most common format. Each output is controlled by a video selector switch that determines which input is being sent through to that output. The switch matrix can also be computer controlled. All units support 270Mbps, 1483/1485Mbps, and 2967/2970Mbps or automatic re-clocking rates. The input power is 18 – 36 VDC. Input and output BNC impedance is 75 ohms. Video returns are common to chassis ground. Different input and output impedances are available upon request, and can be integral with chassis ground. All units are qualified to MilSpec EMI, Environmental and Power requirements.

Eon is able to quickly customize units to unique requirements. One example is the VMS-2020-3SP4. This unit employs a 20 in x 20 out switcher and up to 3 internal programmable monitor configuration cards that allow the user to configure groups of 4 switcher outputs internally to a programmable video output providing for each monitor picture-in-picture, picture overlay etc.

Configuration:

See the attached Outline and Mounting Drawings for sample configurations. **Generic Specifications:** Signal Input/Output: HD-SDI Single Ended Gain: Unity Finish: (except for screws, base and connectors): CARC White Paint Input Voltage: 18-36 VDC *Power Consumption:* 6.0 - 10.0 Watts depending on channels in operation *Power Dissipation:* 1.2 - 2.0 Watts depending on channels in operation Weight: 2.0 lbs Finish (except for screws and connectors): CARC White Paint, Black Lettering Qualification (by test or similarity, data available upon request): Power: Mil-Std-704D, 1275 Environmental: Mil-Std-810G *Temperature*: Storage: -55 to +85C Functional: -40 to +55CShort Time Operating: +70C Altitude: Non-Pressurized Area, Cl 1 per MIL-E-5400T (0-50,000Ft) Humidity: DO-160C, Cat A MIL-STD-810E Method 507.3, Procedure III (Aggravated), 10ea 24 hr cycles Salt Fog: MIL-STD-810E Method 509.3, Procedure I Sand and Dust: MIL-STD-810E Method 510.3, Procedure I Acceleration: Operational: +/-6.5G's, Non-operational: +/-9 G's Endurance Sine on Random Vibration: MIL-STD-810F Method 514.5 Category 13 and IF-3AA0-08002B. Rapid Decompression: MIL-STD-810E Method 500.3 para II-3.3 Procedure III Functional and Crash Safety Shock Testing: DO-160C Section 7 Impulse, 6 G's Operational, 15 G's Crash Safety. EMI: Mil-Std-461 Conducted Emissions, CE101 Conducted Emissions, CE102 Radiated Emissions, RE101 Radiated Emissions, RE102 Conducted Susceptibility, CS101 Conducted Susceptibility, CS114 **RF** Conducted Susceptibility, **RFCS** Radiated Susceptibility, RS103 **RF** Radiated Susceptibility Electrostatic Discharge, ESD Lightning Induced Transient Susceptibility, LITS

MTBF: 88,000Hrs

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						REMOTE VI	DEO SELE	CT SW 1-2			-
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A	NOTES: 1. INPUT POWER: 28 VI 2. HOUSING: CHEM-FIL 3. FINISH: OPTIONAL C AND CHASSIS BOTTO AND UNPAINTED CO 4. WEIGHT: <1 LB NOM	DC, 3 WATTS NOMINAL M FINISH PER MIL-C-5541 CL ARC WHITE PAINT EXCEPT FC OM. BLK LETTERING ON BOTH ONFIGURATIONS. IINAL	ASS 3 PR SCREWS PAINTED	CAD-MAINTAINED INCORPORATED V UNLESS OTHERWIS DIMENSIONS ARE TOLERANCES: .XXX": ±0.005" [.XX": ±0.02" [.X": ±0.1" [.X": ±0.1" [.X": ±0.1" [.X": ±0.1" [.X] ±0.1" [.X] ±0.1" [.X] ±0.1"	A CHANGES SHALL BE VIA DESIGN ACTIVITY. IE SPECIFIED, IN INCHES [mm] ±0.12mm] ±0.5mm] ±2.5mm] IOTES IOTES IOTES	PROPRIETARY AND THE INFORMATION C DRAWING IS THE SOL EON INSTRUMENTATIC REPRODUCTION IN P WHOLE WITHOUT THE PERMISSION OF EON INC. IS PROHIBITED. APPROVALS: DRAWN: NCI CHECKED: JW ENG APPR.:	CONFIDENTIAL ONTAINED IN THIS E PROPERTY OF ON, INC. ANY ART OR AS A WRITTEN INSTRUMENTATION, DATE: F 06/24/2020 06/24/2020	EON Insi 15531 Ca Tel: +1 (i TITLE: OUTL SIZE PART NO. A 25000- SCALE: 1:2	trumentation, Inc. brito Road • Van N 818) 781-2185 • Cr VMS-22 INE & MOUNT BUWG. NO. 300 25000 () -(-1) s	uys, CA 91406 AGE Code: 22198 ING -300 TBD GHEET 1 OF 1	P DWG. NO.
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