



## RVD-164 / RVD-164A

### Video Distribution Amplifiers

- 16 Inputs
- 64 Outputs
- BNC Connections
- Alarms (RVD-164A only)
- 4 kg
- 132 x 426 x 165 mm (19", 3U)
- Power Consumption (<25 VA)

### VSDA

The **ernitec** RVD-164 and RVD-164A are video signal distribution amplifiers for 16 video channels respectively. The equipment can be used for PAL/CCIR and NTSC/RS-170 video signals

### Input

Each input channel is duplicated to four outputs. This is particularly useful for larger installations where the camera signals must be distributed to multiple units, such as matrixes, multiplexers, etc. or for high security sites where redundant feeds must be available. The input channels are equipped with an adjustable cable compensation circuit which can compensate for the loss in long coaxial cables.

### Alarms

The **ernitec** RVD-164A is additionally equipped with independent video alarm circuits for each input channel. The level of video signal is monitored and an alarm is raised if the level is too low, for example due to a black-out of the camera. The sync pulse is also monitored to be within a specified limit. Finally, an alarm is raised if the video signal is completely disconnected, for example if the video cables is unplugged.

### Practicality

The **ernitec** RVD-164 and RVD-164A can be used practically wherever multiple video signals must be distributed to different locations. By making a simple loop, it can also be used in situations where just a few video signals must be assigned to many different locations.

# Technical Specification

Video Input Specifications	RVD-164	RVD-164A
Number Of Inputs	16	16
Connector Type	BNC	
Input Impedance	75W	
Nominal Input Voltage	1 Vpp	
Maximum Input Voltage	2 Vpp	
Cable Compensation	0dB, +2dB, +4dB, +6dB @5 MHz, selectable by switch	
Input Return Loss	> 32dB @ 10 MHz	
Number Of Outputs	4 per input	
Output Impedance	75W	
Output Voltage	1Vpp @ 1Vpp input	
Output Return Loss	> 32dB @ 10 MHz, Terminated	
Output Isolation	> 32dB @ 10MHz	
Bandwidth, 10Hz to 10Mhz	< 0.5 dB	<1.5 dB
Signal To Noise Ratio	> 80dB, 5MHz unweighted	
Crosstalk	> 56dB @ 5MHz	
K-factor	< 0.4 %KF	
2T Pulse/Bar Ratio	> 93.5%	
Zag 50Hz	< 0.5° @ 4.43 MHz	
Differential Gain	< 1.5% @ 4.43MHz	
Luminance Non-Linearity	< 1.5%	
Alarm Connector Type	-	25 Pole Female Seb-D
Alarm Low Video Level	-	180 mV ±30mV
Low Video Level, Delay Alarm	-	<1.5 sec, typ. 1 sec
Low Sync Pulse Level	-	200 mV ±25 mV
Low Sync Pulse Level, Delay Alarm	-	<0.5 sec, typ 0.2 sec
Open Video Circuit, Delay Alarm	-	<0.5 sec, typ 0.2 sec
Video Alarm Output Level	-	0 VDC (No Alarm), 5VDC (Alarm)
Power Alarm	-	Potential Free, NO/CC
General Purpose Power Output	-	5 VDC, 80mA
Supply Voltage	230 VAC +15% -10 %, 45 to 55 Hz	
Power Consumption	< 25 VA	
Temperature Range	0°C to +55°C	
Humidity	< 90 %RH @ 1Bar, Non Condensing	
Size (W x H x D)	132 x 426 x 165 mm (19", 3U)	
Weight	4kg	
Part Numbers	0052-00103	0052-00104



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