



## INSTALLATION AND OPERATION MANUAL

### **EZ-VMD4E** Model numbers: EZ-VMD4E includes power supply with North American plug EZ-VMD4EX includes worldwide power supply (specify plug) **VGA/XGA Equalized Distribution Amplifier**



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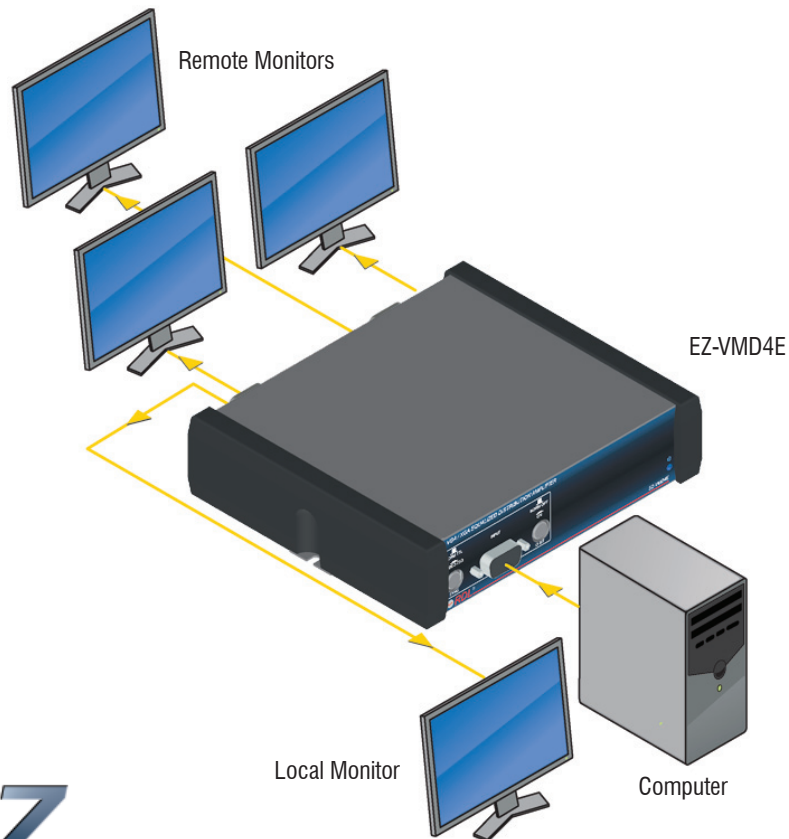
# EZ-VMD4E

## VGA/XGA Equalized Distribution Amplifier

- Input and Outputs on HD15 Female Connectors
- Wide RGB Bandwidth > 400 MHz Loaded
- High Resolution Compatibility VGA through QXGA
- Reliable Full-Size Switches for Switched Functions
- Switch-Selectable TTL or Video 75  $\Omega$  Input Sync
- NORM ID BIT Connects LOCAL MONITOR and INPUT ID
- Front-Panel ID Bit Selection for Each Input
- DC RGB Coupling, Output Polarity and Offset Follow Input
- Rear-Panel GAIN and EQ Peaking Trimmers

The EZ-VMD4E is a high-resolution computer video distribution amplifier with four outputs. The input has an associated ID BIT switch to assure compatibility with various computers. Sync is front-panel switch-selectable between standard TTL or 75  $\Omega$  video. One of the four outputs is individually buffered for driving the computer monitor. The other three outputs are driven by separate output amplifiers that include rear-panel gain and equalization trimmers that provide adjustable compensation for quality monitor cable lengths exceeding 100 m (300 ft). All switched functions are easily accessible on the front panel. The EZ-VMD4E is used in houses of worship, restaurants, clubs, meeting rooms, educational facilities, conference rooms, stores and commercial A/V systems.

## TYPICAL APPLICATION



[www.rdl.net.com](http://www.rdl.net.com) . . . [www.rdlez.com](http://www.rdlez.com)

### **SYNC INPUT SELECTOR**

The SYNC switch selects between standard computer card TTL sync and RGBHV 75 ohm video format sync. Set the switch to the NORM TTL position (button OUT) for use with a normal computer video source; set to the VIDEO 75 OHM position (button IN) for use with a 75 ohm sync source.

### **ID BIT**

Set to NORM OFF position (button OUT) unless computer video output fails to operate with the connected monitors; set switch to ON position (button IN) if needed to activate computer video monitor output (not typically required unless using certain laptops).

### **VIDEO INPUT**

Connect the video source to the INPUT jack.

### **POWER INDICATOR**

Glowes blue when the product is connected to a valid power source.



### **24 VDC INPUT**

Insert plug from power supply. Rotate 1/4 turn clockwise to lock.

### **LOCAL MONITOR OUTPUT**

Connect the LOCAL MONITOR output to the input of the local computer video monitor.

### **MONITOR OUTPUTS**

Connect to the video inputs of 1, 2 or 3 monitors or projectors.

### **EQUALIZATION ADJUSTMENT**

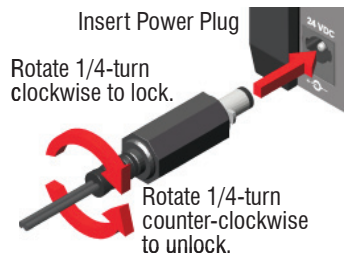
If long video cables are connected to the outputs, turn the EQ control clockwise until the picture sharpness appears normal. If short output cables are connected, or if the picture clarity is normal, set the EQ control fully counter-clockwise.

### **GAIN ADJUSTMENT**

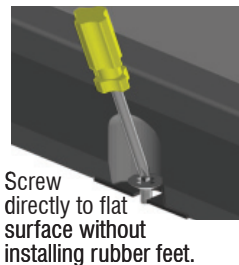
If long video cables are connected to the outputs, turn the GAIN control clockwise until the picture brightness appears normal. If short output cables are connected, or if the picture brightness is normal, set the GAIN control fully counter-clockwise.

**FOR BEST PICTURE QUALITY, REMOTE VIDEO MONITOR "OPTIMIZATION" FUNCTION SHOULD BE RUN, IF PROVIDED.**

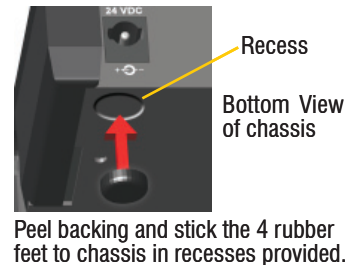
### **POWER CONNECTION**



### **FIXED MOUNTING**



### **RUBBER FEET ATTACHMENT**



## SELECTED MOUNTING ACCESSORIES Complete accessory listing available at: [rdlez.com](http://rdlez.com)

### EZ-RA6

Rack Adapter for 6 Increments of 1/6 Rack Width



### EZ-CC6

Component Chassis for 6 Increments of 1/6 Rack Width



### EZ-SMB2

Surface Mount Bezel for 1/3 Rack Width Products



### EZ-DC2

Desktop Chassis 1/3 Rack Width



### EZ-UCB2

Under-Counter Brackets 1/6 or 1/3 Rack Width



### EZ-SD2

Storage Drawer 1/3 Rack Width

Use In Place of Filler Panel  
Holds Adapters and Cables  
Mounts in EZ-CC6 and EZ-RA6



## TYPICAL PERFORMANCE

Input: VGA - QXGA RGBHV or RGB with combined sync  
Outputs (4): LOCAL MONITOR (1, Buffered, ID bit pass-thru to INPUT 1), OUTPUTS (3, with GAIN and EQ trim)  
Gain: Unity (LOCAL MONITOR output), Unity to +6 dB (Monitor outputs)  
Equalization (peaking): None (LOCAL MONITOR output), Adjustable 0 to +8 dB at 100 MHz (Monitor outputs)  
Video bandwidth: > 400 MHz  
Video impedance: 75  $\Omega$  (Input and output)  
Sync (HV) input: 500  $\Omega$  TTL or 75  $\Omega$  Video (Switch-selectable), 0.7 V to 5 V p-p  
Sync (HV) output: 5V TTL  
Sync (HV) Propagation delay: < 4 nS typ.  
Sync (HV) Rise time: < 4 nS typ.  
Sync (combined): Output follows input  
Bit Control: Switch-selectable (individual selector per input, pin 4, over-rides LOCAL MONITOR jack ID bit pass-thru)  
24 Vdc power supply current: 70 mA (idle), 90 mA (max.)  
Power supply input voltage: 100 to 240 VAC  
Warranty: 3 Years; contact RDL technical support department for assistance  
Case dimensions: 5.75" (14.6 cm)W x 5" (12.7 cm)D  
Mounting size: 1/3 rack width

CE

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