



## INSTALLATION AND OPERATION MANUAL

### EZ-VM22E

Model numbers:  
EZ-VM22E includes power supply with North American plug  
EZ-VM22EX includes worldwide power supply (specify plug)

#### VGA/XGA Switcher/Equalized Amplifier



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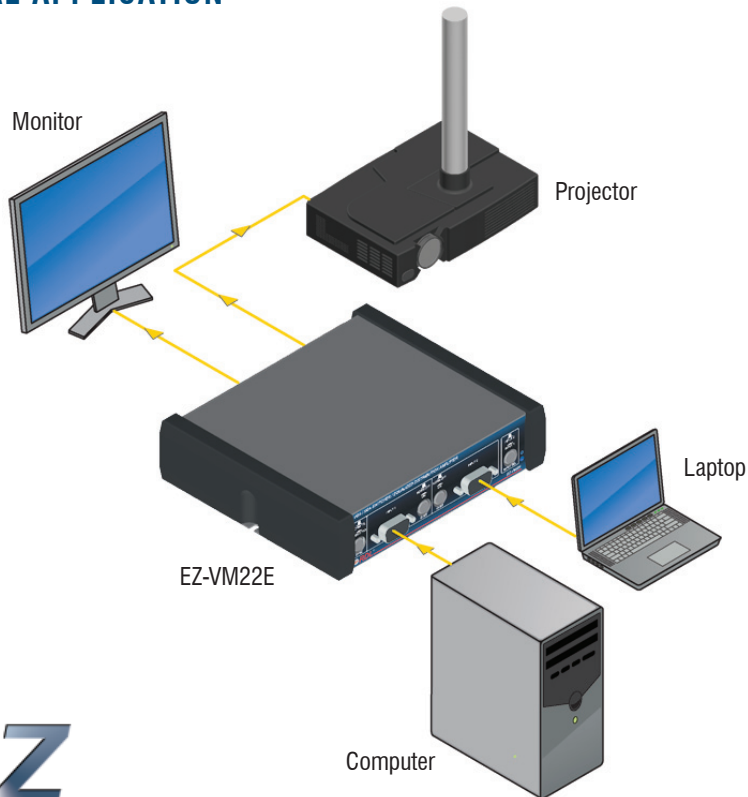
# EZ-VM22E

## VGA/XGA Switcher/Equalized Amplifier

- Inputs and Outputs on HD15 Female Connectors
- Two Front-Panel Switch-Selectable Inputs
- Wide RGB Bandwidth > 400 MHz Loaded
- High Resolution Compatibility VGA through QXGA
- Solid-State Switching of Video and Sync Signals
- Reliable Full-Size Switches for Switched Functions
- Switch-Selectable TTL or Video 75  $\Omega$  Input Sync
- NORM ID BIT Connects LOCAL MONITOR and INPUT 1 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-VM22E is a high-resolution computer video source selector and distribution amplifier with two inputs and two outputs. A front-panel switch selects between the inputs. Each input has an associated ID BIT switch to assure compatibility with various computers. The sync for input 1 is front-panel switch-selectable between standard TTL or 75  $\Omega$  video. One of the two outputs is individually buffered for driving the computer monitor. The second output is 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. Input switching is fully solid state for long-term reliable immunity from switch noise and the bandwidth limitations of mechanical switches. The EZ-VM22E 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 BITS** (separate switch provided for each input)  
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 1**

Connect the primary video source to INPUT 1.

### **VIDEO INPUT 2**

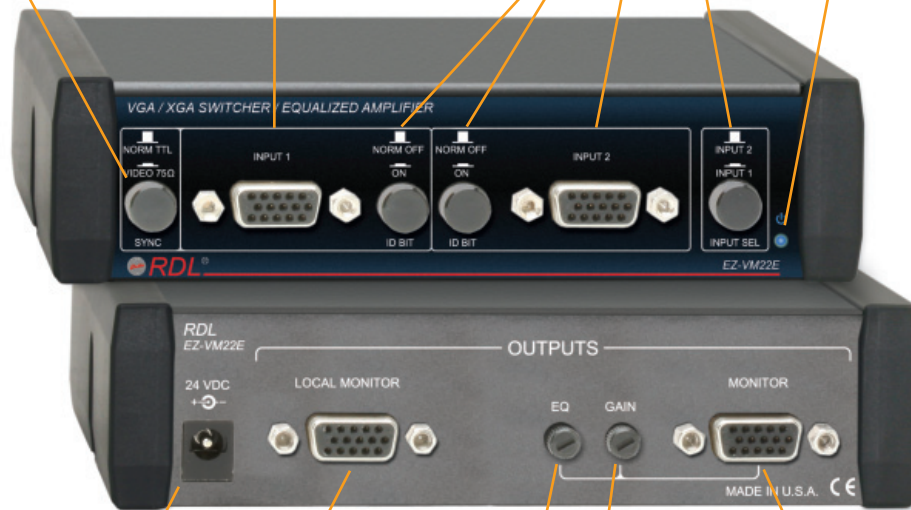
Connect the secondary video source to INPUT 2.

### **INPUT SELECTOR**

Select INPUT 1 (button IN) or INPUT 2 (button OUT) to feed the rear-panel OUTPUT jacks.

### **POWER INDICATOR**

Glow 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 OUTPUT**

Connect to the video input of a video monitor or projector.

### **EQUALIZATION ADJUSTMENT**

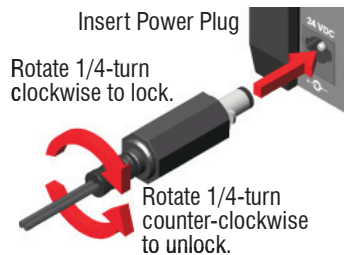
If a long video cable is connected to the output, turn the EQ control clockwise until the picture sharpness appears normal. If a short output cable is connected, or if the picture clarity is normal, set the EQ control fully counter-clockwise.

### **GAIN ADJUSTMENT**

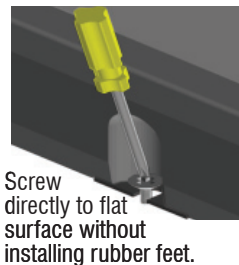
If a long video cable is connected to the output, turn the GAIN control clockwise until the picture brightness appears normal. If a short output cable is connected, or if the picture brightness is normal, set the GAIN control fully counter-clockwise.

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

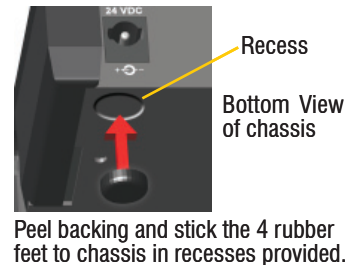
### **POWER CONNECTION**



### **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

Inputs (2): VGA - OXGA RGBHV or RGB with combined sync  
Outputs (2): LOCAL MONITOR (1, Buffered, ID bit pass-thru to INPUT 1), MONITOR (1, with GAIN and EQ trim)  
Gain: Unity (LOCAL MONITOR output), Unity to +6 dB (MONITOR output)  
Equalization (peaking): None (LOCAL MONITOR output), Adjustable 0 to +8 dB at 50 MHz (MONITOR output)  
Video bandwidth: > 400 MHz  
Output offset:  $\pm 5$  mV typ. (75  $\Omega$  load)  
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), 80 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

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