EZ SERIES
Made in USA by RDL

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

RDL EZ Series products provide the highest level of value to A/V professionals and A/V users who demand professional quality. For long-term performance, quality and value, you have made the EZ choice. EZ products are made in the USA by RDL, the inventor of application-specific modules bringing decades of experience as the world's leading manufacturer of high-reliability performance products to the A/V industry. Visit the RDL website for hundreds of professional A/V products made in the USA by RDL.

RDL® Radio Design Labs

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Decades of Performance, Quality and Value

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Tech Support: 800-933-1780 • 928-778-3554 • RDL Europe Sales & Support: (31) 20-6238-983

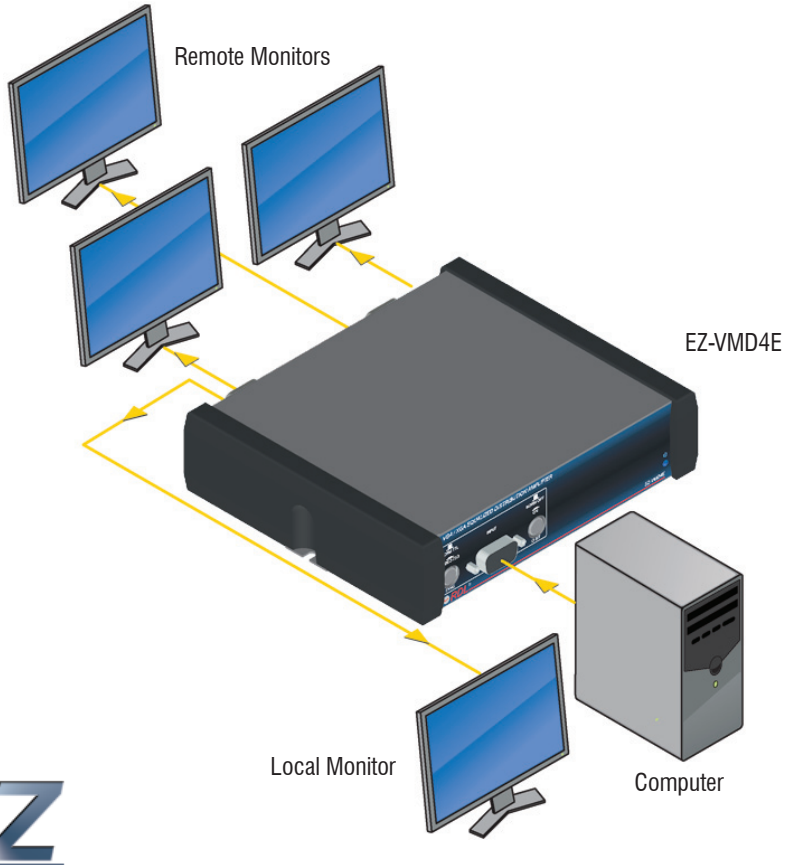
EZ-VMD4E

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 Ω 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 Ω video. One of the four outputs is indivually 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



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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
Glows 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.

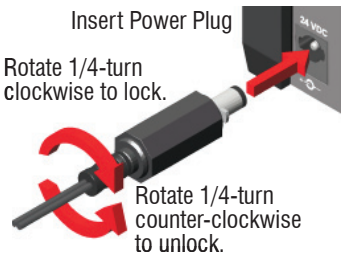
MONITOR OUTPUTS
Connect to the video inputs of 1, 2 or 3 monitors or projectors.

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.

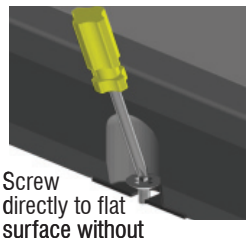
GAIN ADJUSTMENT
If long video cables are connected to the outputs, turn the GAIN control clockwise until the picture brightness appears normal. If short output cables are connected, or if the picture brightness is normal, set the GAIN control fully counter-clockwise.

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

POWER CONNECTION



FIXED MOUNTING



Screw directly to flat surface without installing rubber feet.

RUBBER FEET ATTACHMENT

Peel backing and stick the 4 rubber feet to chassis in recesses provided.

SELECTED MOUNTING ACCESSORIES Complete accessory listing available at: 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 Ω (Input and output)
Sync (HV) input: 500 Ω TTL or 75 Ω Video (Switch-selectable), 0.7 V to 5 V p-p
Sync (HV) output: 5V TTL
Sync (HV) Propogation 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

891-1595