

# CDA-2EQ

## High Resolution 1x2 Distribution Amplifier



Video Products Group



Supports up to  
QXGA (2048 x  
1536@60Hz)



### FEATURES

The FSR CDA-2EQ is a high resolution 1 X 2 Distribution Amplifier designed to satisfy a typical application where a local monitor and a remote display device require a long cable run.

The remote output is equalized to maintain excellent signal integrity for even the highest video resolutions. Cable runs of up to 175' are possible with 170 MHz of full amplitude bandwidth and +/- 0.4dB flatness to a 150 MHz. A half amplitude signal yields 270 MHz of bandwidth and +/- 0.4dB flatness to 235 MHz, nearly 16 times better than cable alone. This means that the signal that you feed into the CDA-2EQ will arrive at the far end of the cable with an almost immeasurable amount of loss and no distortion due to peaking effects.

The local monitor output passes ID bits to the host computer to maintain compatibility with Mac and Windows based computers.

A 9V AC power supply and mounting hardware kit is included for above or below table installation.

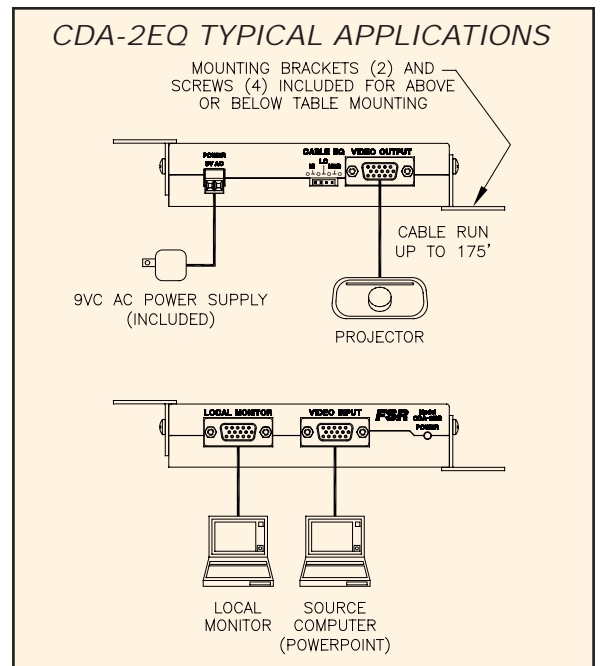
The FSR CDA-2EQ is ideal for laptop or desktop presentations such as PowerPoint that require a secondary video feed to run longer distances.

### KEY FEATURES

- Ultra High Bandwidth
- Flat Frequency Response
- Local Monitor Output
- Integrated Line Driver with Cable EQ
- Includes Power Supply and All Mounting Hardware

### APPLICATIONS

- Conference / Board Rooms
- Classrooms
- Courtrooms
- Staging and Rental
- House of Worship

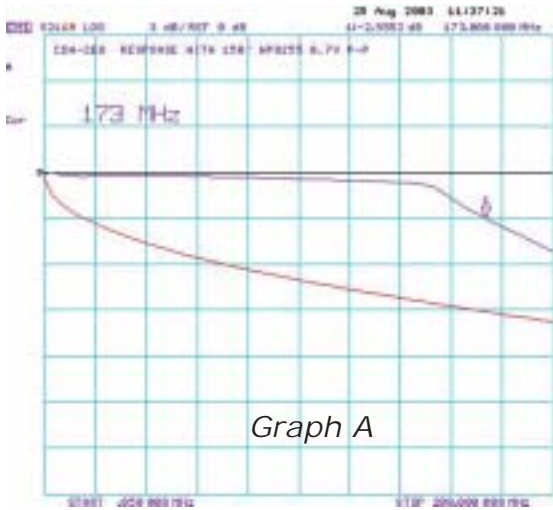


### FSR Inc.

244 Bergen Boulevard, West Paterson, NJ 07424  
Phone: 973.785.4347 · Fax: 973.785.4207  
Web: www.fsrinc.com · E-mail: sales@fsrinc.com  
Order Desk: 1-800-332-FSR1 LIT1130

Graph A shows the response curves of a 150 foot section of West Penn 8255 mini-coax cable with and without the CDA-2EQ being driven by a full .7V signal.

Notice that by itself, the cable's bandwidth is only 17 MHz, but when used with the CDA-2EQ, the bandwidth is restored to 173 MHz.

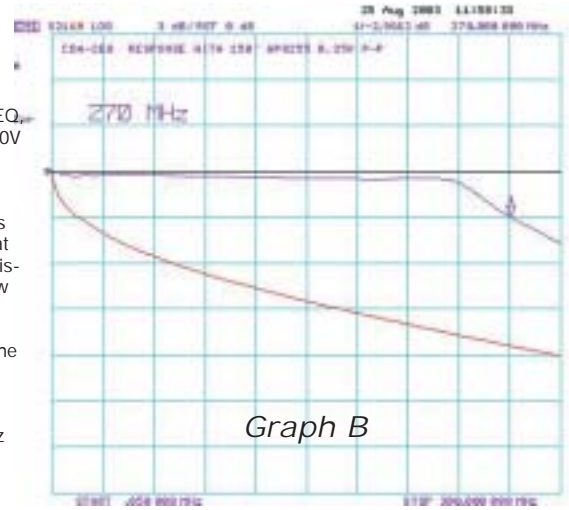


Graph A

Graph B shows the response of a 150' section of WP8255 mini-coax with and without the CDA-2EQ, with a half level .350V signal.

Notice that the CDA-2EQ maintains it's exceptionally flat response characteristics, even with a low level signal.

Again, notice that the cables' -3dB bandwidth is only 17 MHz, but is restored to 270MHz when driven by the CDA-2EQ.



Graph B

## TECHNICAL SPECIFICATIONS

### VIDEO INPUT

- Number/Type: 1 RGBHV
- Connectors: 15 pin HD female
- Level (nominal): Analog 0.7 Vp-p
- Level (maximum): 2 Vp-p
- Impedance: 75 ohms
- Max Resolution: Up to QXGA (2048 x 1536 @ 60Hz)

### EQUALIZED VIDEO OUTPUT

- Number/Type: 1 RGBHV
- Connectors: One 15 pin HD female
- Bandwidth: This performance data is based on the CDA-2EQ plus the specified length of WP8255 (West Penn) cable with a full amplitude (0.7v P-P) signal applied.
  - 50' cable 308 MHz (-3dB) 0-215 MHz +/-0.25dB With no cable 500 MHz
  - 100' cable 225 MHz (-3dB) 0-180 MHz +/-0.25dB
  - 150' cable 173 MHz (-3dB) 0-150 MHz +/-0.25dB

This performance data is based on the CDA-2EQ plus the specified length of WP8255 (West Penn) cable with a half amplitude (0.35v P-P) signal applied.

- 50' cable 507 MHz (-3dB) 0-350 MHz +/-0.4dB With no cable 500 MHz
- 100' cable 357 MHz (-3dB) 0-300 MHz +/-0.4dB
- 150' cable 270 MHz (-3dB) 0-235 MHz +/-0.4dB

- Level (nominal): Unity / User adjustable via HI / MED / LOW Jumper
- Gain: HI = 125' to 175', MED = 60' to 125', LOW = 0' to 60'
- Impedance: 75 ohms
- Design Cable: West Penn WP8255 or equal

### LOCAL VIDEO OUTPUT

- Number/type: 1 RGBHV
- Connectors: One 15 pin HD female
- Bandwidth: 300MHz @ -3dB
- Gain: Unity (buffered)
- Impedance: 75 ohms

### SYNC

- Input level: 2.0 Vp-p to 5.0 Vp-p
- Output level: 4.0 Vp-p into Hi-Z, 2.0 Vp-p into 75 ohm
- Input Impedance: 511 ohms
- Output impedance: 75 ohms
- Polarity: Positive or negative
- Horizontal frequency: 15 kHz - 200 kHz
- Vertical frequency: 30 Hz - 150 Hz

### POWER

Wall Transformer (provided) with locking connector 9Vac @ 500 ma

### SIMILAR FSR PRODUCTS:

CDA-4/CDA-6



RGBHV2



244 Bergen Boulevard, West Paterson, NJ 07424  
 Phone: 973.785.4347 · Fax: 973.785.4207  
 Web: www.fsrinc.com · E-mail: sales@fsrinc.com  
 Order Desk: 1-800-332-FSR1