

CDA-2EQA

High Resolution 1x2 Distribution Amplifier

FSR

Video Products Group

CDA-2EQA



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



FEATURES

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

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-2EQA 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.

The CDA-2EQA incorporates a mini stereo input jack on the front and a 5 position pluggable captive screw terminal on the back for balanced stereo audio output. An active audio balancing circuit ensures long, noise free stereo audio cable runs from the point of installation to the house sound system.

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

The FSR CDA-2EQA is ideal for laptop or desktop presentations such as PowerPoint that require the secondary audio and video feeds to run longer distances. It would be a versatile complement to the designers/ integrators palette.

Specifications are subject to change without notice.

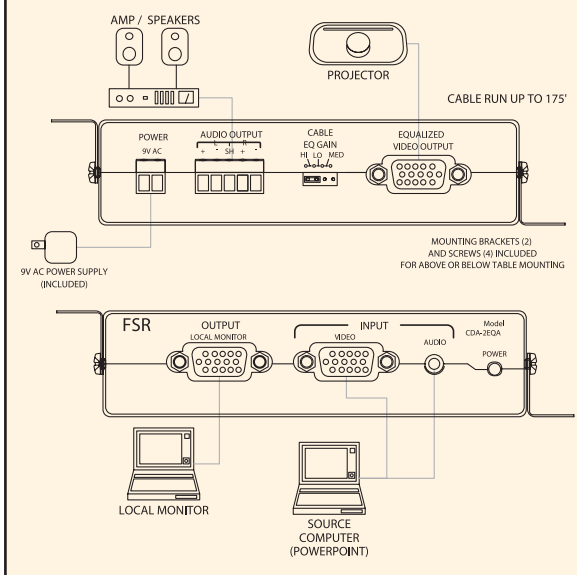
KEY FEATURES

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

APPLICATIONS

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

CDA-2EQA TYPICAL APPLICATIONS

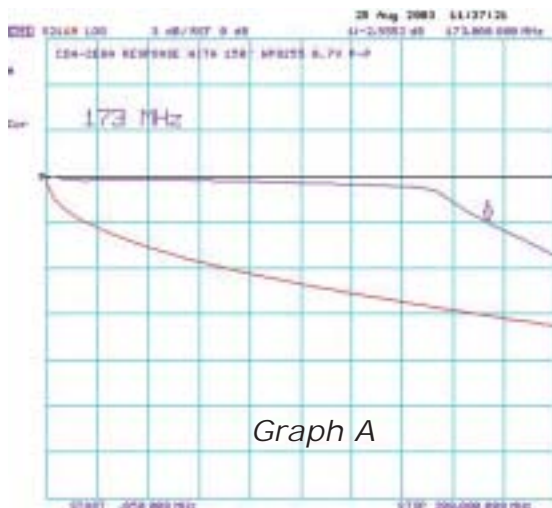


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Graph A shows the response curves of a 150 foot section of West Penn 8255 mini-coax cable with and without the CDA-2EQA being driven by a full .7V signal.

Notice that by itself, the cable's bandwidth is only 17 MHz, but when used with the CDA-2EQA, 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-2EQA, with a half level .350V signal.

Notice that the CDA-2EQA maintains its 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-2EQA.



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-2EQA 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-2EQA 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

AUDIO

Bandwidth: 20 Hz to 20 kHz (+/-0.05 dB)
THD + Noise: 0.01% @ 20 kHz at rated
Max Output S/N >98 dB
Noise Floor: < 98 dB
Stereo separation: -90 dB @ 1 kHz

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

AUDIO INPUT

Number/type: 2 stereo unbalanced
Connectors: Two 3.5mm stereo mini connectors
Impedance: 10K Ohms unbalanced
Max level: +6 dBm

AUDIO OUTPUT

Number/type: 1 Balanced Stereo (may be used in unbalanced configuration)
Connector: 5 Position mini Phoenix
Impedance: 50 ohms
Gain: + 6 dB balanced or unbalanced
Maximum Level: with 600 ohms load:
+12 dBm balanced
+6 dBm unbalanced
Hi-Z:
+14 dBm balanced
+8 dBm unbalanced



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