CVD-144
COMPOSITE VIDEO 1 X 4 X 4 BRIDGING DISTRIBUTION AMPLIFIER

The First Configurable Distribution Amplifier!

DESCRIPTION

The CVD–144 is the world’s first configurable Distribution Amplifier (D/A). Four independent 1 x 4 D/A’s are integrated within the 1RU chassis. What makes the CVD-144 unique is the ability to bridge adjacent 1x4 blocks to make a larger D/A.

In its default configuration, the CVD-144’s four 1x4 D/A’s operate independently. By simply flipping the bridge switches, adjacent 1x4 D/A’s are bridged together and the input of the first block is sent to all of the bridged outputs allowing many different configurations to suit your signal distribution needs.

Possible configurations include four 1x4 D/A’s, one 1x8 and two 1 x 4 D/A’s, two 1x8 D/A’s, one 1x12 and one 1x4 D/A’s and one 1x16 D/A. To insure the highest possible signal quality, all outputs are fully buffered and the measured bandwidth from input to any output is greater than 350MHz with a flat signal response.

The CVD-144’s extended bandwidth makes it compatible with all analog video signals including HDTV. In addition, each of the blocks inputs may be used independently or in concert to distribute composite, component, and S-video. A universal power supply extends the CVD-144’s compatibility to the world.

APPLICATIONS

• Boardrooms
• Live Event Productions
• Education
• Conferences Centers
• Rental Companies
• Video Conferencing
• and other complex Integration Systems not requiring a matrix switcher

TECHNICAL SPECIFICATIONS

• 400 MHz video bandwidth
• Four bridgeable 1x4 D/A Blocks
• All outputs are fully buffered
• Universal worldwide power supply

Video
Gain: Unity (into 75 ohm load)
Bandwidth: >400 MHz (+0.1db/-3db) measured from input connector to output connector within a block, all outputs connected.
+0.1db/-0.5db 175 MHz measured from input connector to output connector within a block, all outputs connected.
>350 MHz (+0.1db/-3db) measured from input to any output connector when fully bridged, all outputs connected.
+0.1db/-0.5db 150 MHz measured from input connector to output connector when fully bridged, all outputs connected.

Differential Phase
Error: 0.04 degrees (NTSC)

Differential Gain
Error: 0.04% (NTSC)

Video Input — Each block (4 blocks total)
Number/Signal Type: 1 analog video (NTSC, PAL or SECAM)
Connectors: 1 BNC Female
Min/Max Level: ±1.9V
Impedance: 75 ohm
Maximum DC offset: ±1.2V (with 0.7V p-p signal)

Video Output — Each block (4 blocks total)
Number/Signal Type: 4 analog video matching input
Connectors: 1 BNC per output (4 total)
Min/Max Level: ±3.8V
Impedance: 75 ohm
DC offset: ±20 MV max

APPROVALS

UL, cUL, FCC, and CE approvals applied for.

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**GENERAL**

Power AC input: 110/220 VAC, 50/60Hz
Mounting: Table top or rack mount rack ears included
Enclosure Type/ Size: Metal, 1 RU high, 19" wide

**POSSIBLE CONFIGURATIONS**

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<tr>
<th>QTY</th>
<th>INPUT/OUTPUT</th>
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<tr>
<td>4</td>
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**TYPICAL “COMPOSITE” VIDEO APPLICATION**

![Diagram of typical composite video application]

**TYPICAL “COMPONENT” VIDEO APPLICATION**

![Diagram of typical component video application]

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Specifications are subject to change without notice.