



HD or SD DIGITAL DISTRIBUTION AMPLIFIER



FEATURES

Model VDA-55

- ★ DC Powered, Portable
- ★ SMPTE 259M, 344M, 292M compliant
- ★ Wall Wart Power Supply
- ★ HD SD SDI Input
- ★ Four HD SD SDI Outputs
- ★ Lock/Format Indication
- ★ Automatic Equalization and Re-clocking
- ★ Compact Size

HD SD SDI distribution amplifiers combine exceptional performance with both value and compact size. The VDA-55 supports 143Mb/s, 270Mb/s and 1.485Gb/s Auto Rate Detection with "Power OK", "Lock" and "HD" indicators. The compact size of this distribution amplifiers, allows it to be located in spaces where standard rack space is limited.

The LINK VDA-55 HD SD SDI DA restores the incoming signal to its proper amplitude. The signal is reshaped with automatic equalization, and DC restoration. The VDA-55's maximum equalized cable length; for SD up to 250 feet at 270Mb/s, and HD up to 100 feet at 1.485Gb/s. Four outputs are provided on the end panel, as well as a detachable DC power cable.

There are three LED's on the end opposite the BNC connectors, showing Lock, Signal Presence and DC Power. There are four outputs that represent the input.

The VDA-55 input signal can be 143Mb/s, 177Mb/s, 270Mb/s, 360Mb/s, 540Mb/s, and 1.485 Gb/s standards.

The VDA-55 carries a 10-year warranty including parts and labor.

The three LED's show the status of the input signal; locked, and whether the data is Serial Digital standard definition, or High Definition, HD SDI. The signal output level is 800mV p-p, and reclocked. The VDA-55 can be used in places where space is a premium and at the same time get excellent performance and lower cost.

The VDA-55 is designed for applications that require equalization, re-clocking and distribution for HD SD SDI digital video as per SMPTE 259 (SD1) and SMPTE 292 (HD). The VDA-55 includes an automatic input cable compensation circuit commonly referred to as an adaptive cable equalizer.

The VDA-55 includes a crystal referenced re-clocking circuit that senses three data rates: 143 Mb/s, 270Mb/s and 1.484 Gb/s. If the data rate is one of these three rates the re-clocker will automatically activate and reduce high frequency jitter. If the incoming data rate is not 143 Mb/s, 270Mb/s or 1.484 Gb/s, then the VDA-55 re-clocker will go into the bypass mode. If the data rate is 143 Mb/s or 270 Mb/s, the VDA-55 output rise times are slowed down to comply with the SMPTE 259 specification. The default for the VDA-55 is the faster SMPTE 292 HD rise time.

VDA-55 SERIAL DIGITAL DISTRIBUTION AMPLIFIER

SPECIFICATIONS

Serial Digital Video Input:

Number of Inputs:	1
Connectors:	BNC
Standards:	
Composite:	143Mb/s
Component:	177Mb/s, 270Mb/s, 360Mb/s, 540Mb/s
HD Component:	1.485Gb/s
Impedance:	75 Ohms
Return Loss:	>15dB
Signal Level:	800mV
Input Cable Length Max:	
SD, :	250 Feet @ 270Mb/s
HD,:	100 Feet @ 1.485Gb/s
Jitter:	0.2 UI P-P

Digital Outputs:

Number of Outputs:	4
Connectors:	BNC
Standards:	Same as input
Impedance:	75 Ohms
Return Loss:	>15dB
Signal Level:	800mV
Overshoot:	8% of Amplitude

End Panel LED:

Lock Detect:	LED
HD:	LED
DC Power:	LED

ENVIRONMENTAL:

Temperature:	0° to 50°C Ambient
Humidity:	10% to 90% non-condensing
Power:	4.2 Watts

MECHANICAL:

Height:	.75 Inch
Width:	4.0 Inch
Depth:	2.0 Inch
Weight:	4 Oz



BNC VIEWING ANGLE

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