

**HDA4 &
HDSR**

**HD/SD SDI
Reclocking & Equalizing
Distribution Amplifiers**

Manual Version Rev 1.01



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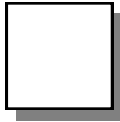
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Introduction

Congratulations on your purchase of the Burst Electronics model HDA4 or HDSR digital video distribution amplifier. We hope that this manual will cover any questions you may have concerning the operation of this product.

The HDA4 accepts an SD/SDI or HD/SDI signal and distributes the signal to four outputs. The HDSR is a two output version designed to be placed inline with long cable runs. The unit is operated from an included 5Vdc power supply.



Product Description

The HDA4 and HDSR are HD/SD SDI reclocking distribution amplifiers capable of driving SDI video down 300 feet of quality video cable (RG6/U). The input is equalized. The outputs can be selected to bypass or reclock the incoming video signal.

Hardware

This section of the manual will explain the functions of the front panel switches and indicators.

Reclock On/Off - When ON, the unit will reclock the outputs. When OFF, reclocking is bypassed.

Lock – The LED is Green indicating the input video signal is present. The LED is off when indicating that incoming digital video is not present.

Power—ON/OFF power switch. Up position turns power ON, Down position turns power off.

5Vdc – Power connector (see Specifications for power requirement).

SDI Input – This is the input BNC for SDI video.

SDI Outputs – Four BNCs video output connections (HDA4) or two BNC video output connections (HDSR).



Specifications

Supports: SMPTE 292M/259M (NTSC 480i;
PAL 576i; 720p59.94; 1080i50/59.94; 1080p30)

Level: 800mv p-p

Impedance: 75 ohm terminating

Equalization: Automatic up to 100m @ 1.5GHz
using Belden 1694

Output Jitter: 0.2UI (expected)

Inputs Number: 1

Connectors: BNC

Level: 20-800mV p-p

Freq. Range: 143Mbps to 1.5Gbps

Impedance: Hi-Z

Outputs

HDA4: 4 (BNC)

HDSR: 2 (BNC)

Level: 800mV p-p, Unity Gain

Processing: Re-clocked outputs

Freq. Range: 143Mbps to 1.5Gbps

Impedance: 75 ohm

Front Panel Control Functions:

- Switch 1: Power ON/OFF
- Switch 2: Bypass/Reclocked

Indicators:

- Number: 1
- Signal present: LOCK (LED)

Size: 4.2 W x 1.5 H x 5.5 D inches.

Power: 5VDC (included): 120 VAC 60 Hz, 5 Vdc
0.5 A, UL Listed

Environmental:

- Operation temperature: 0C to +40C
- Storage temperature: -40C to +85C
- Relative Humidity: 5% to 95% (non-condensing)

Warranty: 2-Year Parts and Labor