

**DVA-1**

**601 Serial Digital Video  
Distribution Amplifier  
With Analog Converter**

**Manual Version      1.01**



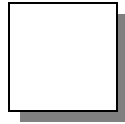
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## DVA-1 601 Serial Digital Video DA

Congratulations on your purchase of the Burst Electronics Model DVA-1 601 Serial Digital Video Distribution Amplifier.

### **Introduction**

The DVA-1 provides re-clocked distribution of serial digital (SDI) signals, NTSC/PAL monitoring of incoming signals and various processing of the digital signal.

### **Features**

- 1 input 2 output re-clocked distribution of SMPTE 259M 601 serial digital (SDI) signal
- Monitoring port converts incoming SDI to NTSC or PAL for viewing on NTSC or PAL equipment

## **Re-clocking DA**

In its basic configuration, the DVA-1 provides 2 re-clocked serial digital outputs from a single serial digital input. The DVA-1 will phase lock to the incoming signal and extract the clock signal. It then uses a phase detector to compare the phase of the PLL clock with that of the incoming data. The error output of the phase detector is used to retime the data signal so that it is correct with respect to the output clock signal.

## **NTSC/PAL Monitor Port**

The DVA-1 also converts the serial digital signal into NTSC, or PAL, standard composite signal. This signal is available as an output for viewing on an analog NTSC, or PAL, monitor.

## Specifications

Power: 5Vdc @ 260mA (center positive)

Size: 5.6W x 1.5H x 7.3D inches

Video: 601 In - 601 Serial Digital  
601 Out - 2x 601 Serial Digital  
Composite Out - 1Vp-p NTSC/PAL

Accessories: Wall Module Power Supply  
120Vac - 5Vdc (center  
positive)