



### Mounting Frame Options

- 1000 - Single Power Supply, Holds 11 Modules
- 1000/2 - Dual Power Supply, Holds 10 Modules
- 7200 - Mounting Frame, Holds 1 Module

# 1153

## Analog EQ/Clamp Video Distribution Amp 1x8



The Digiflex 1153 Video DA is a state of the art analog video distribution DA with equalization and clamp. The 1153 provides high-performance video distribution in the LINK DigiFlex 1000 Frame. The advantage is obvious: both analog and digital distribution amplifiers can operate side-by-side in a single frame!

Utilizing the latest CMF Op-Amp technology, the 1153 combines wide bandwidth, low noise, and low power consumption. The video path is truly transparent, with differential phase and gain errors of  $<0.1\%$  and  $<0.1\%$ , respectively. Video signal-to-noise ratio exceeds 65dB. Eight outputs are provided on it's companion rear cell, 1011.

DC-coupled differential input is a standard feature, providing high common-mode rejection. Eight outputs are available on the rear panel. Cable equalization is adjustable from the front card edge and can compensate for loss in coax cable up to 1000 feet of Belden 8281. The feedback clamp on/off is front panel controlled. Clamp is referenced to back porch.

The attention to detail in the design of the 1153 extends to the power supply, which features a simple switching regulator. While slightly more complex than a linear supply, this offers the highest possible efficiency. Backed by a ten-year warranty including parts and labor.

### Exceptional Technical Support

The 1153 is backed by the Link Electronics standard 10-year warranty and 24/7 free customer support. It meets the innovative, high performance, flexibility, and reliability requirements of all Link Electronics products.

## Features

- Eight Outputs
- AC or DC Coupled

- Op Amp. Technology
- $\pm 3\text{dB}$  Gain, each set of four

- 100 MHz Bandwidth
- Diff. Gain and Phase 0.1

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### Input:

Video Level: ..... 1.0Vp-p±3dB  
Impedance: ..... 75 ohms terminating  
Common Mode Range: ..... 5Vp-p  
Maximum DC In: ..... ±5 VDC  
CMRR: ..... 70dB

### Outputs:

Number: ..... Eight (8), BNC  
Level: ..... Unity Gain ±3dB

### Amplifier Performance:

Frequency Response: ..... ±0.5dB to 55 MHz  
..... ±1dB to 60MHz  
..... ±3.0dB to 100 MHz  
Differential Gain: ..... <0.1%, 10% to 90% APL  
Differential Phase: ..... <0.1°, 10% to 90% APL  
Clamping action: ..... 40dB for 10% to 90% APL  
..... 38dB for 60Hz AC hum  
DC Gain Stability: ..... ±0.1dB  
Noise: ..... >70dB, below 1.0V p-p  
Hum: ..... >70dB, below 1.0V p-p  
Output Isolation: ..... > 40dB at 3.58 MHz  
Return Loss: ..... 40dB to 6 MHz  
Tilt: ..... <0.4%  
Ringing: ..... <0.4%  
High Freq. Overshoot: ..... <0.4%  
Coupling: ..... DC Servo, Average DC output =0  
Harmonic Distortion: ..... SC @ 3.58Hz, 2Vp-p  
..... Less than 0.4% ( 48dB)

### Front Panel Controls:

Gain Control: ..... ±3dB continuous from unity  
Clamp ON/OFF: ..... Switch Selectable  
Cable Equalizer: ..... Equalizes up to 1000 Ft

### Environmental:

Temperature: ..... 0° to 50° C, ambient  
Humidity: ..... 10% to 90% non-condensing

### Power:

DC Voltages:  
+5 VDC: ..... 50mA  
-5 VDC: ..... 50mA

### Mechanical:

Height: ..... 3.5 inches  
Width : ..... 1 Inch  
Depth: ..... 10 Inches  
Weight: ..... 7.1 Ounces

### Rear Cell I/O

- 0. Input
- 1. Output
- 2. Output
- 3. Output
- 4. Output
- 5. Output
- 6. Output
- 7. Output
- 8. Output

