

Model 5140

Analog Video EQ DA

The 5140 provides analog distribution of NTSC and PAL composite video signals. It can equalize up to 1000 feet (300 meters) of coaxial cable. The purpose of equalization is to compensate for the losses that occur when a video signal travels through a length of coaxial cable. Due to their differing characteristics, different types of cable will require different equalization networks on the 5140. Cable type must be specified when the module is ordered.

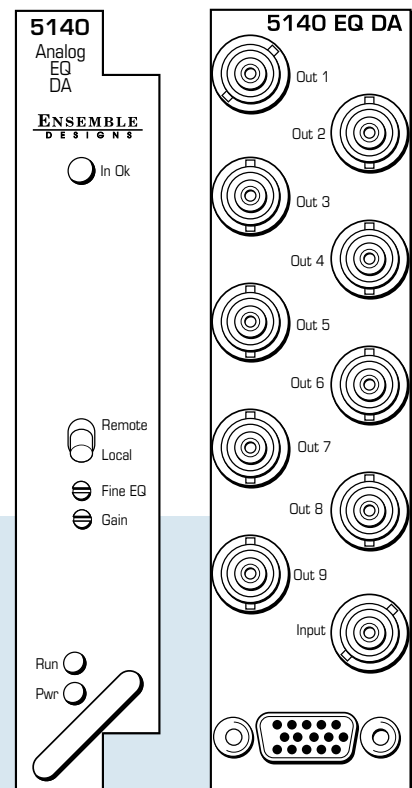
Input signal validity is displayed locally and can be monitored through the Avenue remote control options. Gain and EQ parameters can be adjusted locally as well as remotely. Remote control is accessed via the optional Avenue Touch Screen Control Panel and Avenue PC Control Application.

HumBlocker™ technology on the 5140 will automatically process the analog signal to remove power line hum and other types of interference. This is a superior solution to the problem of recovering analog signals in noisy environments or in the presence of groundloops.

Differential inputs can only provide their full benefit if the shield of the input signal is never connected to local ground. A simple patchbay or cable demarcation box can render differential inputs useless. The HumBlocker feature on the 5140 will actually identify and cancel power line interference within the video waveform itself. Because the HumBlocker system is designed specifically for analog composite video, it must be turned off if the module is being used to distribute other signals (AES, Tri-Level Sync, etc.).

Features

- » Nine outputs
- » Equalization up to 1000 feet (300 meters)
- » HumBlocker™ circuitry provides a superior solution to differential inputs
- » Local and remote control



Input Signal

Number One, terminating
Signal Type NTSC/525, PAL/625
Composite Video
Cable Type Belden 1694A
others upon request
Impedance 75 Ω
Return Loss >40 dB to 5 MHz

Output Signal

Number Nine
Signal Type Follows Input
Impedance 75 Ω
Return Loss >40 dB to 5 MHz
DC Offset Follows Input ±50 mV
Delay 10 nsec (14° NTSC, 17° PAL)

General Specifications

Frequency Response ±0.1 dB
0 to 5.5 MHz
Signal to Noise 68 dB
K Factor, 2T Pulse <0.25%
Differential Phase 10-90% APL <0.1 degree
Differential Gain 10-90% APL <0.15%
Gain Stability <0.1 dB variation
over operating temp
Power Consumption <3.0 watts
Temperature Range 0 to 40°C ambient
(all specs met)
Relative Humidity 0 to 95%, noncondensing
Altitude 0 to 10,000 ft

