

DUAL 1 X 4 AUDIO/VIDEO DA WITH 5 BLACK BURST SYNC OUTPUTS

The **ES-2940** is a single rack mounted unit which contains two Audio Distribution Amplifiers, two Video Distribution Amplifiers and a five output RS-170A Black Burst Sync Generator (BBSG). The unit is designed to meet the requirements of systems which must interface with, distribute and synchronize video and audio signals.

Features:

- Video Gain & EQ Controls
- Audio Gain Controls
- Five RS-170A Black Burst/Sync Outputs
- Rack Mount Enclosure
- Two 1 X 4 Video DA's
- Two 1 X 4 Audio DA's
- Accepts Balanced or Unbalanced Audio
- Broadcast Quality Audio & Video



Each of the two 1 x 4 Video DA's provide a loop-thru input and four isolated outputs. Screwdriver adjustable Gain and EQ controls are accessible on the front panel, all inputs and outputs are provided on rear mounted BNC connectors.

Both 1 x 4 Audio DA's accept one balanced (or unbalanced) audio signal and produce four identical copies. Each of the totally isolated outputs has its own front panel-mounted Gain control (an adjustable, internally mounted input attenuator is also provided). The audio inputs and outputs are accessible on rear mounted terminal blocks. If unbalanced outputs are desired, then each of the 1 x 4 Audio Distribution Amplifiers can provide up to eight separate and isolated feeds.



The BBSG provides a convenient source of composite black burst for pre-blackening video tape or for general synchronization purposes. The output signal consists of sync, blanking, reference black setup level and colorburst which is SCH phased. The five RS-170A outputs are provided on rear mounted BNC connectors.

Specifications

GENERAL

Power: 117 VAC, 50/60 Hz
Mechanical: 1.75" x 19" Black Anodized Panel and Chassis 5" Deep
Options: J, UL

1 x 4 AUDIO DA

Gain: +18dB maximum
Input: Balanced or unbalanced; 2K Ω (input attenuator at maximum) 25K Ω (input attenuator at minimum)
Output: 600 Ω balanced or unbalanced
Output Level: +21dBm maximum
Response: 20-20,000 Hz, +/- 0.2dB
Hum and Noise: -90dB typical under +18dBm output
Distortion: Less than 0.2% at +18dBm output

1 x 4 VIDEO DA

Input: BNC Loop-thru, 1 Vpp nominal
Output: 4 BNC output, 1 Vpp nominal 75 Ω source
Gain Range: -2dB to +3dB adjustable
EQ Range: up to 1000' of RG-59
Frequency Response: 10 Hz - 10 MHz +/- .5dB
Slew Rate: 750v/ μ S
Differential Gain: <0.2% @ 3.58 MHz
Differential Phase: < .2 $^\circ$ @ 3.58 MHz
S/N Ratio: 62dB
Propagation Delay: 3ns
Output Isolation: 45dB
Maximum Output: 2.7 Vpp into 75 Ω , outputs loaded

BBSG

Output: 5 BNC, 75 Ω , RS-170A composite video Sync & Burst 40 IRE, Setup 7.5 IRE

