

BALBOX Analogue Video Distribution Amplifier



FEATURES

- Adjustable gain
- Adjustable cable equalisation
- Wide bandwidth
- Low distortion
- Loop-through input
- 8 Outputs 75 ohm, load insensitive
- Switchable clamp (composite & tri-sync)
- Integral mains supply

The *BALBOX* AVDA010 provides a studio quality equalizing video distribution amplifier in a compact, rugged standalone unit.

The AVDA010 includes adjustable cable equalization and gain controls to cater for most installation situations where rack based DA's would traditionally be used.

The input is loop through, but the user may select self-termination, and eight 75ohm outputs are available. The outputs are load insensitive.

Wide bandwidth combined with low distortion makes the AVDA010 equally suited to composite, component or analogue HD signals. The unit is particularly suitable for extending the outputs of high-resolution graphics workstations.

The user may select clamped or dc-restored operation, and the clamp will operate with the usual composite syncs, or tri-syncs.

The unit has an integrated mains power supply (universal 90 to 250Vac range) with filtered IEC power connector for safe and reliable installation.

The AVDA010 will find application in temporary and small installations, but also where space is at a premium, such as in OB trucks. It is possible to combine a number of *BALBOX* units using a simple 1U tray.

SPECIFICATION – AVDA010

The specification shown is for the default settings of 0 dB Gain, No equalisation, 1V Output.

INPUT

Input impedance: 1M ohm bridging, switchable to 75ohm terminating.
Input return loss: >40 dB to 30 MHz.
Nominal input level: 1V p-p video.
CMRR: >50 dB to 500 kHz.
Max CM signal: 3V p-p.

OUTPUTS

No of outputs: 8
Output impedance: 75 ohms \pm 0.1%.
Output return loss: > 45 dB to 15 MHz, > 37 dB to 30 MHz.
d.c. on output: < \pm 50 mV, < \pm 10 mV with clamp 'on'.
Hum on output: < 1 mV p-p.
Output isolation: > 40 dB to 15 MHz. > 30 dB to 30 MHz.
Response variation with loading: < 0.15 dB at 30 MHz.
Nominal output level: 1V p-p into 75 Ohms.
Equality of output levels: \pm 0.1%.

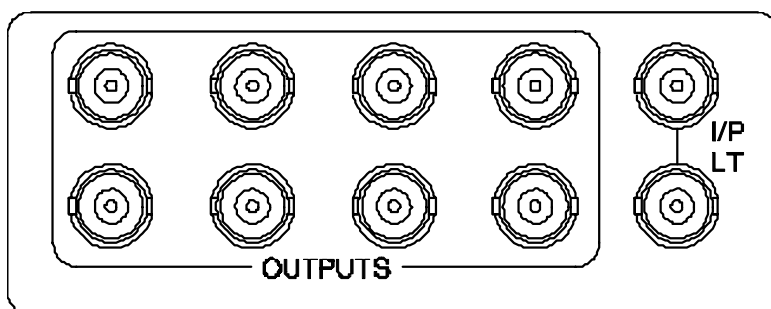
VIDEO PERFORMANCE

Differential phase / gain: < 0.1° / 0.1%
Linearity: < 0.2%
Kpb: < 0.25%
Kp: < 0.25%
Frequency response: \pm 0.025 dB to 20 MHz,
+0.1/-3.0 dB to 50 MHz.
C/L gain / delay inequality: < 0.25% / <2ns
Noise: -74 dB or better Luminance weighted.

INSTALLATION DATA

Package: Standard *BALBOX* housing, with 75 ohm BNC signal connectors
184 x 103 x 42.4mm
Weight: 950g.
Mains supply: 90 – 250Vac
Consumption: <10VA

Refer to *BALBOX* data sheet for information on 1U tray – **BOXRACK**



Rear Connectors

ORDER CODE

AVDA010
BOXRACK

DESCRIPTION

Standalone Video Distribution Amplifier.
Tray to hold 4 **BALBOXES** in 1U 19" rack.
