

BALBOX Serial Video to Analogue Converter



FEATURES

- Two re-clocked serial outputs
- Analogue component YPbPr or GBR outputs
- Two analogue composite or YC outputs
- Pass/blank VITS on analogue outputs
- Analogue/digital line blanking
- Switchable setup on NTSC outputs
- Integral mains power supply

The *BALBOX* SVAC010 provides conversion of serial digital video signals to analogue in component and composite formats. Although primarily aimed at monitoring applications, the component conversion at 10-bit resolution with quality filtering makes it suitable for many studio applications where a compact video converter is required.

Component outputs may be switched from YPbPr to GBR, and the two composite outputs may be switched to YC. When operating in a 525-line environment, setup may be added to the analogue output.

VITS may be passed or blanked, and analogue line-blanking may be applied or disabled.

Control is through a DIP switch at the rear of the unit.

The SDI input has automatic cable equalisation and two re-clocked SDI outputs are provided.

The unit can be set to produce either digital black or a noise signal on loss of input.

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

The SVAC010 is housed in a robust steel case, and may be combined with other *BALBOX* units in a simple 1U tray.

The SVAC011 is configured as an SDI to Composite Converter with 4 reclocked SDI outputs and 4 Composite outputs.

SPECIFICATION – SVAC010

INPUT

Input signal: 270 Mb/s serial NRZI to SMPTE RP259M and EBU Tech 3267
Impedance: 75ohm
Return loss: >15dB, 10MHz to 270MHz
Input equalisation: automatic up to 250m of Belden 8281 cable or similar

SDI OUTPUTS

No of outputs: 2
Output: 270 Mb/s serial NRZI to SMPTE RP259M and EBU Tech 3267
Impedance: 75ohm
Return loss: >15dB, 10MHz to 270MHz
Output level: 800mVp-p +/-20mV across 75ohm termination

ANALOGUE VIDEO OUTPUTS

Parameter	Y / GBR	PbPr	CVBS / YC	Sync
Resolution	10-bit	10-bit	8-bit	na
Amplitude	700mV \pm 1%	700mV \pm 1%	1V \pm 1%	300mV \pm 2%
Frequency response	\leq 0.2dB to 5.5MHz	\leq 0.2dB to 2.75MHz	\leq 0.2dB to 5.5MHz	na
Kp	0.5% typ	na	0.5% typ	na
Noise	> 70dB	> 70dB	>70dB	na
Delay between channels	<10ns	<10ns	<15ns C/L delay inequality	

CONTROLS

A six position DIP switch controls selection of the following:

YPbPr/GBR

CVBS/YC

NTSC setup

Analogue line-blanking

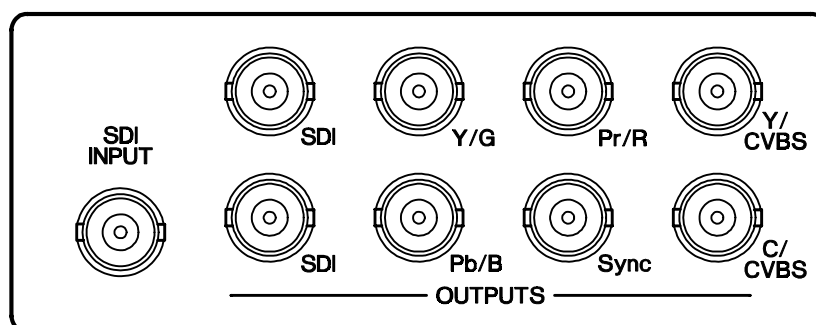
Black on loss of input

VITS blanking.

INSTALLATION DATA

Package: Standard *BALBOX* housing, with nine 75ohm BNC signal connectors
184 x 103 x 42.4mm.
Weight: 950g.
Mains supply: 90 – 250Vac
Consumption: <15VA

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



Rear Connectors

ORDER CODE

SVAC010

SVAC011

BOXRACK

DESCRIPTION

BALBOX SDI to Composite and Component Converter

BALBOX SDI to Composite Converter DA (4) with SDI DA (4)

Tray to hold up to 4 *BALBOX*es in 1U 19" rack.
