

## BALBOX Analogue Component to Serial Video Converter



### FEATURES

- **10-bit A to D conversion**
- **Four serial component outputs**
- **YPbPr or GBR inputs**
- **Automatic 525/625 line operation**
- **Pass/ Blank VITS function**
- **Blank serial outputs function**
- **Internal colour bar test pattern**
- **Integral mains power supply**

The *BALBOX* ASVC010 provides conversion of analogue component video signals to serial digital video at 270Mb/s. The user may select the analogue input format to be YPbPr or GBR. The user may also select Syncs to be taken from the Y/G input or a separate composite sync input

Analogue to digital conversion is at 10-bits and the analogue processing and filtering has been matched to preserve the analogue component quality. Although primarily aimed at compact or temporary installations, the unit is suitable for studio and outside broadcast applications.

Four 270Mb/s serial digital outputs are provided, removing the need for separate SDI distribution amplifiers in many instances.

The user may select to pass or blank VITS present on the analogue input, may select to blank the serial video outputs and may select an internally generated digital colour bar signal for test purposes.

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

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

The ASVC010 is housed in a robust steel case, and may be combined with other *BALBOX* units in a simple 1U tray.

# SPECIFICATION – ASVC010

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## INPUT

Input signal: User selectable analogue component YPbPr or GBR  
Line standard: 625/50 or 525/60 automatically detected  
Input levels: 0.7Vp-p, 1.0Vp-p on Y/G with syncs  
Impedance: 75ohm terminating on all inputs

## SYNC INPUT

Input signal: 0.3V nominal composite syncs  
Impedance: 75ohm terminating

## SDI OUTPUTS

No of outputs: 4  
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

## VIDEO PERFORMANCE

Frequency response:  $\pm 0.2\text{dB}$  to 5.5MHz, Y/G input  
 $\pm 0.2\text{dB}$  to 2.2MHz, Pb/B input  
 $\pm 0.2\text{dB}$  to 2.2MHz, Pr/R input  
Delay inequality:  $\leq 15\text{ns}$  between channels

## CONTROLS

A six position DIP switch controls selection of the following:

YPbPr/GBR

Y/G sync/ext sync

VITS pass/blank

Blank SDI output

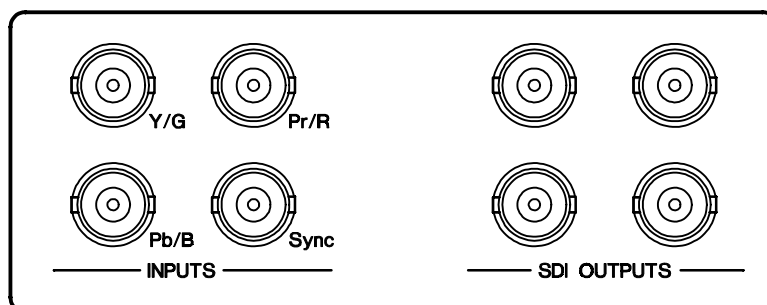
100% colour bar test pattern

Blank/colour bar on loss of input.

## INSTALLATION DATA

Package: Standard *BALBOX* housing, with eight 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**

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## **ORDER CODE**

**ASVC010**

**BOXRACK**

## **DESCRIPTION**

BALBOX Analogue Component to Serial Video Converter  
Tray to hold up to 4 *BALBOX*es in 1U 19" rack.

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