

BALBOX Composite to Serial Converter



FEATURES

- **Analogue composite or YC to SDI conversion**
- **4 serial outputs**
- **Automatic PAL/NTSC operation**
- **Low delay simple mode decoding**
- **VITS pass facility**
- **Internal colour bars test pattern**
- **Universal mains powered stand-alone unit**

Designed to be a low cost convenient solution for converting composite analogue signals to component serial digital signals.

The CSV020 provides all digital decoding of analogue PAL/NTSC to SDI. The ADC014 automatically senses PAL 625/50 or NTSC 525/60 operation from the analogue input video standard.

Either composite video (CVBS) or S-Video (YC) inputs are accepted.

Syncs to lock the digital clock are derived from either the CVBS or Y input.

Flexibility in operating modes is provided via an easily accessible switch. These modes allow the user to select the type of input signal VITS pass and internal test pattern.

The test pattern is 100% colour bars, which defaults to 625/50 standard when no input is present.

The universal mains power is supplied via an IEC inlet.

SPECIFICATION – CSV020

INPUT CHARACTERISTICS

Input signal	Analogue composite or Y/C: PAL or NTSC
Line standard:	625/50 or 525/60 automatically detected
Level:	1.0Vp-p on CVBS/Y inc sync
Input impedance:	75 ohm terminating
Input connectors:	2 x BNC sockets

OUTPUT CHARACTERISTICS

Output signal:	10 bit 4:2:2 component 270 Mb/s NRZI serial digital video.
Signal amplitude:	800 mV +/-10%
Output impedance:	75 ohm
Output return loss:	>15 dB, 5 MHz to 270 MHz
No of outputs / connectors:	4 x BNC

CONTROLS

Switch 1:	Input format – CVBS or Y/C
Switch 2:	VITS blank /pass
Switch 3:	PLL mode VTR/TV
Switch 4:	Blanking off/ blank all
Switch 5:	Test pattern off / 100% colour bars

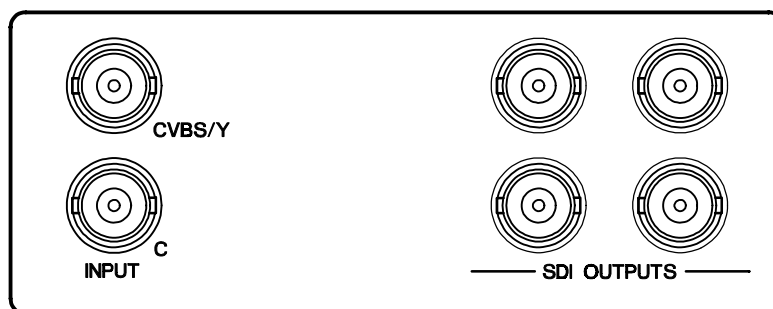
INDICATORS

LED 1:	Green PAL/625
	Yellow NTSC/525
	Red No input
LED 2:	Green Colour lock
	Red Colour error

INSTALLATION DATA

Package:	Standard <i>BALBOX</i> housing, with six 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

CSV020
BOXRACK

DESCRIPTION

BALBOX Composite to Serial Video Converter.
Tray to hold up to 4 *BALBOXes* in 1U 19" rack.
