

DTL MiniBlox™



4420 SDI to composite analogue 10-bit DAC



Features

- SDI to composite analogue DAC
- Multi-standard output
- 270Mb/s 525/625 operation
- 4x over-sampling
- 10-bit DAC
- VBI control
- Built in colour bar generator
- Built in blackburst generator
- Locking connector for PSU

Description

The 4420 is a full featured broadcast quality 270Mb/s SDI to composite analogue converter.

It is housed in an extremely compact and rugged aluminium case ideally suited to both studio and portable applications.

The analogue output is configurable to four different types of PAL and NTSC via switches on the end of the unit. These switches also control the output of two built in test patterns and the control of vertical blanking information.

Control switches

- PAL/NTSC standard
- Test pattern enable
- Blackburst
- Colour bars
- VBI blanking control

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Specifications

SDI input

Standards	SMPTE 259M 270Mb/s 525/625 SDI
Connector	75Ω BNC
Signal level	800mV p-p ±10%
Return loss	>20dB to 270MHz
Cable equalisation	Up to 100m automatic (Belden 8281)

Analogue output

Standards	PAL (B, D, G, H, I), PAL M, NTSC USA & Japan
Connector	75Ω BNC
Signal level	1Vp-p ±10%
DC offset	±100mV
Return loss	>36dB to 5.5MHz
Test pattern	75% colour bars (SDI input required)
Blackburst output	Blackburst timing reference signal

Performance

Frequency response	Flat to 5.5MHz, -3dB at ≈ 6MHz
Differential gain	<0.3%
Differential phase	<0.5°
Delay	<10nS
Input	10-bit 4:2:2
Quantisation	10-bit DAC
Voltage	6-12V DC
Current	350mA at 6V
Power connector	Locking 2.5mm jack connector (centre +ve)
Other	
LED	Shows signal presence
Temperature range	0°C to 40°C
Dimensions	63.5mm x 84mm x 30mm (excluding connectors)
Weight	200g

Ordering information

4420 SDI to composite analogue DAC
4010 1U rack mounting frame for up to 5 units including PSU

4006 Desktop power supply with IEC320 C14 inlet

We reserve the right to change technical specifications without prior notice. E&OE.

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