

DTL MiniBlox™

4424 SDI to composite analogue 10-bit DAC



Features

- SDI to composite analogue DAC
- Automatic 270Mb/s 525/625 detection
- 4x over-sampling
- 10-bit DAC
- VBI control
- Automatic input cable equalisation to over 350m
- Re-clocked SDI output
- Built in colour bar & blackburst generator (requires an SDI input)
- Compact and rugged design
- Locking connector for PSU

Description

The 4424 is a broadcast quality 270Mb/s SDI to composite analogue converter.

It has a re-clocked SDI output. PAL or NTSC is automatically detected. Switches on the end of the unit control the output of the built in test patterns and blanking of the vertical blanking information.

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

Control switches

- Test pattern selection
- Vertical interval blanking control
- PAL N or NTSC Japan selection

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Specifications

SDI input			
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Return loss	>36dB to 5.5MHz
Connector	75Ω BNC	Cable drive	Up to 800m (Belden 8281)
Signal level	800mV p-p ±10%	Test patterns	Colour bars and blackburst (SDI input required)
Return loss	>15dB up to 270MHz	Frequency response	Flat to 5.5MHz, -3dB at ≈ 6MHz
Cable equalisation	>350m automatic (Belden 8281)	Differential gain	<0.3%
Re-clocked SDI output		Differential phase	<0.5°
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Delay	<10ns
Connector	75Ω BNC	Input	10-bit 4:2:2
Signal level	800mV p-p ±10%	Quantization	10-bit DAC
Return loss	>15dB up to 270MHz	Power	
Analogue output		Voltage	6-12V DC
Standards	PAL (B, D, G, H, I), PAL N, NTSC USA & Japan	Current	300mA at 6V
Format	Composite	Power connector	Locking 2.5mm jack connector (centre +ve)
Connectors	75Ω BNC	Other	
Signal level	1Vp-p ±10%	LED	Shows power & signal presence
DC offset	±100mV	Temperature range	0°C to 40°C
		Dimensions	63.5mm x 84mm x 30mm (excluding connectors)
		Weight	245g

Ordering information

4424 SDI to composite analogue DAC

4010 IU rack mounting frame for up to 5 units (includes power supply)

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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