

DTL MiniBloxTM



4422 SDI to universal analogue 10-bit DAC



Features

- SDI to universal analogue DAC
- Composite, component, RGB(S) & YC outputs
- SMPTE/EBU or Beta levels
- 270Mb/s 525/625 operation
- 4x over-sampling
- 10-bit DAC
- Built in colour bar generator
- Compact and rugged design
- Locking connector for PSU

Description

The 4422 is a full featured broadcast quality 270Mb/s SDI to universal analogue converter.

The analogue output is selectable to YUV & composite (CVBS), RGB & CVBS, RGBS, or YC & CVBS via switches on the end of the unit. These switches also control the output of a built in test pattern.

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

Control switches

- CVBS/YUV/RGB(S)/YC outputs
- PAL/NTSC 525/625 selection
- Test pattern enable
- Component output levels

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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 up to 270MHz
Cable equalisation	Up to 100m automatic (Belden 8281)

Analogue outputs

Standards	PAL (B, D, G, H, I), PAL M, NTSC USA & Japan
Format	Composite/YUV/RGB(S)/ & YC
Component	SMPTE/EBU, or Beta component levels
Connectors	Four 75Ω BNCs
Signal level	1Vp-p ±10%
DC offset	±100mV
Return loss	>36dB to 5.5MHz
Cable drive	Up to 800m (Belden 8281)
Test pattern	75% colour bars (SDI input required)

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

Power

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

4422 SDI to universal 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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