



### Features

- SDI to component analogue DAC
- Component YUV & RGB output
- SMPTE/EBU or Beta levels
- 270Mb/s 525/625 operation
- 4x over-sampling
- 10-bit DAC
- VBI control
- Pedestal control
- Built in colour bar generator
- Compact and rugged design
- Locking connector for PSU

### Description

The 4421 is a fully featured broadcast quality 270Mb/s SDI to component analogue converter.

Dip switches on the end of the unit control the input standard, the output format, vertical blanking, addition of pedestal and the YUV output level. In addition the final switch controls the output of the built in colour bars test pattern.

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

### Control switches

- YUV/RGB output
- 525/625 line
- Pedestal
- Output levels
- Test pattern enable
- 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% (terminated)
Return loss	>20dB up to 270MHz
Cable equalisation	Up to 100m automatic (Belden 8281)

#### Analogue outputs

Standards	525/625 component YUV and RGB
Component	SMPTE/EBU or Beta levels
Connectors	Three 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

4421 SDI to component 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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