



### Description

The 4464A SDI to analogue composite video & audio DAC extracts two balanced stereo audio pairs from any group in the ancillary data space of a 270Mb/s SDI signal and provides broadcast quality composite video and analogue audio outputs.

Analogue audio outputs are converted by a 24 bit DAC (sampled at 20 or 24 bits dependant on embedded audio format). De-embedding conforms to SMPTE 272M and allows audio to be extracted from any of the four groups.

Composite video is converted using a 10-bit DAC with 4x over-sampling. Anti-aliasing filters and precision DC restoration provide the kind of conversion previously only available in rack mount systems.

The unit is housed in an extremely compact and rugged aluminium case and is suitable for both field and studio applications.

### Features

- Extracts two balanced analogue audio stereo pairs from any group
- High quality 24 bit audio DAC
- Automatic detection of 525/625 SDI
- 20 or 24 bit de-embedding
- Adjustable full scale output levels to meet all international standards
- LEDs show group status and input signal presence
- Automatic input cable equalisation to over 350m
- 10-bit video DAC with 4x over-sampling
- Compact and rugged design
- Locking connector for PSU

### Control switches

- Audio group select
- Output level adjustment
- PAL N or NTSC Japan selection

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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	>15dB to 270MHz
Cable equalisation	> 350m automatic (Belden 8281)

#### Analogue video output

Standards	PAL (B, D, G, H, I), PAL N, NTSC USA & Japan
Format	Composite
Connectors	75Ω BNC
Signal level	1Vp-p ±10%
DC offset	±50mV
Return loss	>36dB to 5.5MHz

#### Audio de-embedding

Standards	SMPTE 272M
Extracts	20 or 24 bits

#### Analogue audio output

Standard	Balanced analogue audio
Number	2 stereo pairs
Impedance	<50Ω
Output level	Max 0dBFS=+24dBu/ Min 0dBFS=+8.5dBu
Maximum level	+24dBu into 10kΩ
Connector	Removable screw terminals
<b>Power</b>	
Voltage	6-12V DC
Current	810mA at 6V
Power connector	Locking 2.5mm jack connector (centre +ve)
<b>Other</b>	
LEDs	Show group status and signal presence
Temperature range	0°C to 40°C
Dimensions	63.5mm x 84mm x 30mm (excluding connectors)
Weight	185g

### Ordering information

4464A	SDI to analogue composite video & audio DAC	4006	Desktop power supply with IEC320 C14 inlet
4010	1U rack mounting frame for up to 5 units including PSU		

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

**DTL Broadcast Ltd, Johnson's Estate, Silverdale Road, Hayes, Middlesex, UB3 3BA, UK.**

Phone: +44 (0) 20 8813 5200 Fax: +44 (0) 20 8813 5022 Internet: [www.dtl-broadcast.com](http://www.dtl-broadcast.com) Email: [sales@dtl-broadcast.com](mailto:sales@dtl-broadcast.com)