



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

www.miniblox.com

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 |
| Power | |
| Voltage | 6-12V DC |
| Current | 810mA at 6V |
| Power connector | Locking 2.5mm jack connector (centre +ve) |
| Other | |
| 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 Email: sales@dtl-broadcast.com