

4461A SDI analogue audio embedder



Features

- Inserts two balanced analogue audio stereo pairs into any group
- High quality 24 bit audio ADC
- Replaces or adds to existing audio
- Automatic detection of 525/625 SDI
- Selectable 20 or 24 bit embedding
- Adjustable full scale input levels to meet all international standards
- LEDs show group status and input signal presence
- Automatic input cable equalisation to over 350m
- EDH generation
- Extremely compact and rugged

Description

The 4461A SDI analogue audio embedder inserts two balanced stereo audio pairs into the ancillary data space of a 270Mb/s SDI signal.

The analogue input is sampled at 24 bits and can be embedded as 20 or 24 bit audio. Embedding conforms to SMPTE 272M and allows audio to be inserted into any of the four groups. Existing audio groups can be added to or completely removed. Digital silence is inserted when an audio feed is absent. There is automatic input cable equalisation and a re-clocked SDI output is provided.

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

Control switches

- Audio group select
- Append or overwrite audio
- 20/24 bit embedding
- Input level adjustment
- Pass/generate EDH

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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)

SDI output

Standards	SMPTE 259M 270Mb/s 525/625 SDI
Connector	75Ω BNC
Signal level	800mV p-p ±10% (terminated)
DC offset	±100mV
Return loss	>18dB to 270MHz

Audio embedding

Standards	SMPTE 272M
Embedding	20 or 24 bits

Analogue audio input

Standard	Balanced analogue audio
Number	2 stereo pairs
Impedance	20kΩ
Input level	Max 0dBFS=+26dBu/ Min 0dBFS=+12dBu
Quantisation	24 bit
Connector	Removable screw terminals
Power	
Voltage	6-12V DC
Current	470mA at 6V
Power connector	Locking 2.5mm jack connector
Other	
LEDs	Locking 2.5mm jack connector (centre +ve)
Temperature range	0°C to 40°C
Dimensions	63.5mm x 84mm x 30mm (excluding connectors)
Weight	175g

Ordering information

4461A SDI analogue audio embedder
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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