



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.

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

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		Analogue audio input	
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Standard	Balanced analogue audio
Connector	75Ω BNC	Number	2 stereo pairs
Signal level	800mV p-p ±10% (terminated)	Impedance	20kΩ
Return loss	>15dB to 270MHz	Input level	Max 0dBFS=+26dBu/ Min 0dBFS=+12dBu
Cable equalisation	> 350m automatic (Belden 8281)	Quantisation	24 bit
SDI output		Connector	Removable screw terminals
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Power	
Connector	75Ω BNC	Voltage	6-12V DC
Signal level	800mV p-p ±10% (terminated)	Current	470mA at 6V
DC offset	±100mV	Power connector	Locking 2.5mm jack connector
Return loss	>18dB to 270MHz	Other	
Audio embedding		LEDs	Locking 2.5mm jack connector (centre +ve)
Standards	SMPTE 272M	Temperature range	0°C to 40°C
Embedding	20 or 24 bits	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.