



Description

The 4461DB SDI balanced AES-EBU audio embedder inserts two balanced stereo AES-EBU streams into the ancillary data space of a 270Mb SDI signal.

The input stream 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. The audio must be synchronous with the video. 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 synchronous balanced AES-EBU stereo pairs into any group
- Replaces or adds to existing audio
- Automatic detection of 525/625 SDI
- Selectable 20 or 24 bit embedding
- LEDs show group status and input signal presence
- Automatic input cable equalisation to over 350m
- EDH generation
- Extremely compact and rugged design
- Locking connector for PSU

Control switches

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

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Specifications

SDI input		AES-EBU input	
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Standard	Synchronous balanced AES-EBU AES3-2003
Connector	75Ω BNC	Number	2
Signal level	800mV p-p ±10% (terminated)	Type	Transformer coupled
Return loss	>15dB to 270MHz	Termination	Balanced 110Ω
Cable equalisation	> 350m automatic (Belden 8281)	Input level	0.2-10V p-p
SDI output		Connector	Removable screw terminals
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Sample rate	48kHz (synchronised to video)
Connector	75Ω BNC	Power	
Signal level	800mV p-p ±10% (terminated)	Voltage	6-12V DC
DC offset	±100mV	Current	440mA at 6V
Return loss	>18dB to 270MHz	Power connector	Locking 2.5mm jack connector (centre +ve)
Audio embedding		Other	
Standard	SMPTE 272M	LEDs	Show power, signal presence & embedding status
Resolution	20 or 24 bits	Temperature range	0°C to 40°C
		Dimensions	63.5mm x84mm x30mm (excluding connectors)
		Weight	175g

Ordering information

4462DB SDI balanced AES-EBU 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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