



### Description

The 4461DB+ SDI balanced AES-EBU audio embedder with sample rate converter 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. Internal audio sample rate converters allow the applied audio to be of any sample rate between 32 and 96kHz. The sample rate conversion maybe bypassed to allow for non-PCM audio streams 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. 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 asynchronous balanced AES-EBU stereo pairs into any group
- Supports all audio sample rates from 32kHz to 96kHz
- Inserts digital silence when audio signals are not present
- 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
- Re-clocked SDI output
- Extremely compact and rugged design
- Locking connector for PSU

### Control switches

- Audio group select
- Channel status update/pass
- Append or overwrite audio
- 20 or 24 bit embedding
- Pass/generate EDH
- Disable sample rate converter

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### Specifications

<b>SDI input</b>			
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Termination	Balanced 110Ω
Connector	75Ω BNC	Input level	0.2-10V p-p
Signal level	800mV p-p ±10% (terminated)	Connector	Removable screw terminals
Return loss	>15dB to 270MHz	Sample rate	48kHz synchronous or 32 – 96kHz asynchronous
Cable equalisation	> 350m automatic (Belden 8281)	<b>Audio embedding</b>	
<b>SDI output</b>		Standard	SMPTE 272M
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Resolution	20 or 24 bits
Connector	75Ω BNC	<b>Power</b>	
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)
<b>AES-EBU input</b>		<b>Other</b>	
Standard	Balanced AES-EBU AES3-2003	LEDs	Show power, signal presence & embedding status
Number	2	Temperature range	0°C to 40°C
Type	Transformer coupled	Dimensions	63.5mm x84mm x30mm (excluding connectors)
		Weight	175g

### Ordering information

4462DB+ SDI balanced AES-EBU audio embedder with SRC  
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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