



### Description

The 4461DU SDI unbalanced AES-EBU audio embedder inserts two unbalanced stereo AES-EBU streams into the ancillary data space of a 270Mb/s 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. The audio must be synchronous with the video. 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 synchronous unbalanced 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

<b>SDI input</b>		<b>AES-EBU input</b>	
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Standard	Unbalanced AES-EBU AES3id, SMPTE 276M
Connector	75Ω BNC	Number	2
Signal level	800mV p-p ±10% (terminated)	Type	Transformer coupled
Return loss	>15dB to 270MHz	Connector	75Ω BNC
Cable equalisation	> 350m automatic (Belden 8281)	Termination	Unbalanced 75Ω
<b>SDI output</b>		Level	0.2–10V p-p
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Sample rate	48kHz (synchronised to video)
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>Audio embedding</b>		<b>Other</b>	
Standards	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

4462DU SDI unbalanced AES-EBU audio embedder 4006 Desktop power supply with IEC320 C14 inlet  
4010 1U rack mounting frame for up to 5 units including PSU

We reserve the right to change technical specifications without prior notice. E&OE.

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