



Description

The 4461DU+ SDI unbalanced AES-EBU audio embedder with sample rate converter 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. 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 unbalanced 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

SDI input		Connector	75Ω BNC
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Termination	Unbalanced 75Ω
Connector	75Ω BNC	Level	0.32-10V p-p
Signal level	800mV p-p ±10% (terminated)	Sample rate	48kHz synchronous or 32 – 96kHz asynchronous
Return loss	>15dB to 270MHz	Audio embedding	
Cable equalisation	> 350m automatic (Belden 8281)	Standards	SMPTE 272M
SDI output		Resolution	20 or 24 bits
Standards	SMPTE 259M 270Mb/s 525/625 SDI	Power	
Connector	75Ω BNC	Voltage	6-12V DC
Signal level	800mV p-p ±10% (terminated)	Current	440mA at 6V
DC offset	±100mV	Power connector	Locking 2.5mm jack connector (centre +ve)
Return loss	>18dB to 270MHz	Other	
AES-EBU input		LEDs	Show power, signal presence & embedding status
Standard	Unbalanced AES-EBU AES3id, SMPTE 276M	Temperature range	0°C to 40°C
Number	2	Dimensions	63.5mm x84mm x30mm (excluding connectors)
Type	Transformer coupled	Weight	175g

Ordering information

4461DU+ SDI unbalanced AES-EBU audio embedder with SRC 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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