



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

Standards	SMPTE 259M 270Mb/s 525/625 SDI
Connector	75Ω BNC
Signal level	800mV p-p ±10% (terminated)
Return loss	>15dB to 270MHz
Cable equalisation	> 350m automatic (Belden 8281)

SDI output

Standards	SMPTE 259M 270Mb/s 525/625 SDI
Connector	75Ω BNC
Signal level	800mV p-p ±10% (terminated)
DC offset	±100mV
Return loss	>18dB to 270MHz

AES-EBU input

Standard	Unbalanced AES-EBU AES3id, SMPTE 276M
Number	2
Type	Transformer coupled

Connector	75Ω BNC
Termination	Unbalanced 75Ω
Level	0.32-10V p-p
Sample rate	48kHz synchronous or 32 – 96kHz asynchronous

Audio embedding

Standards	SMPTE 272M
Resolution	20 or 24 bits

Power

Voltage	6-12V DC
Current	440mA at 6V
Power connector	Locking 2.5mm jack connector (centre +ve)

Other

LEDs	Show power, signal presence & embedding status
Temperature range	0°C to 40°C
Dimensions	63.5mm x84mm x30mm (excluding connectors)
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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