

PVD 5822 UO/DO - 3G/HD/SD Dual Frame Synchronizer + Audio Processing



Features

Compact dual channel frame synchronizer

- Second input optional

Supports SDI video formats up to 3Gbit/s

Optional fiber I/O, basic fiber or CWDM with 18 wavelength selections

Bi-level or tri-level reference input, auto detect, cross lock compatible

Robust flywheel frame synchronizer functionality

Seamless switching between input sources (with second input option)

4 independent SDI outputs, user mapped to inputs as required

Each output (4) has independent 10 bit digital video processing providing:

- Adjustable gain, saturation, black level and hue
- Integral test pattern generator with multiple patterns
- Adjustable output timing delay (12 frame)

Automatically detect audio content PCM / DolbyE / compressed bitstream

De-embed complete audio payload from each SDI input (16 channels)

8 x external AES inputs and / or outputs (transformer coupled)

Individually selectable sample rate converters (on/off) for de-embedded audio and external audio inputs

24 x 24 AES audio input crossbar

Selectable audio pathways through synchronizer

- 20 x AES - Internal
- 4 x AES - Through 4 x DolbyE synchronizers
- 8 x AES bypass channels synchronized to SDI input 1
- 8 x AES bypass channels synchronized to SDI input 2

48 channel audio processing with adjustable gain / phase / mute / sum

48 channel overload and silence detection

Audio is delayed to track video synchronizer automatically

User adjustable audio delays in multiple zones

DolbyE synchronizers automatically maintain guard band timing

No pops and clicks in audio even when frames are dropped / added

4 independent output embedders (16 channel) for each output

4 independent 48 x 16 mono output crossbars

80 x 16 mono crossbar for external AES outputs

Store 7 module user presets, and switch between four with GPI

Two external GPI inputs, user configurable:

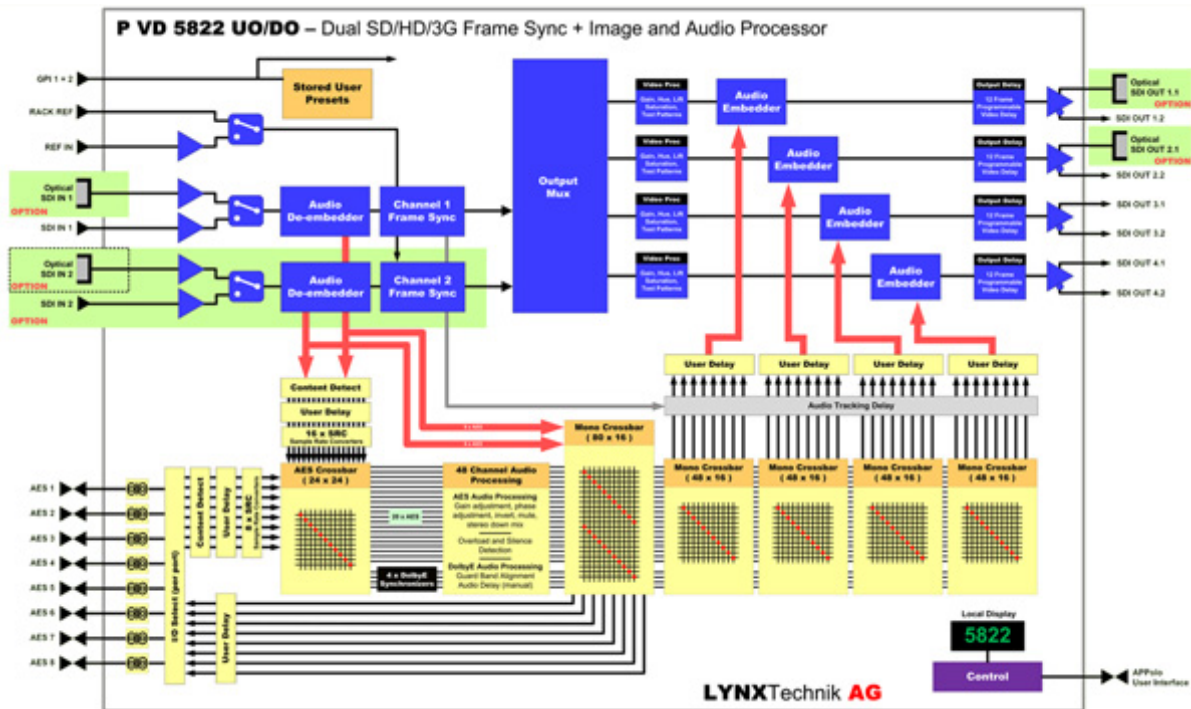
- Seamless switch between inputs (with second input option)
- Freeze input 1 (or 2 with second input option)

Powerful and intuitive user interface using APPolo control system

Full SNMP if used with RCT 5031 Master Controller option

Hot swappable

Functional Diagram



Description

[Click here for larger diagram](#)

The P VD 5822 is a dual channel SDI frame synchronizer for applications that need compact, robust and dependable broadcast quality frame synchronization with full audio processing capability.

The basic module is a single channel SDI multi-format frame synchronizer, with four separate SDI output channels, each with its own independent video processor and 16 channel audio embedder. A second input channel can be added at any time (option).

The audio processing capabilities are extensive; the module de-embeds all audio with support for up to eight external AES inputs or outputs. Multiple internal crossbars allow for extensive audio shuffling. The module features content aware audio detection, DolbyE synchronization to maintain critical guard band timing, plus full audio processing capability for PCM audio (gain, mute, swap, phase, stereo mixdown).

Audio delays automatically track the frame synchronizer with fixed manual offsets possible in multiple zones of the audio processing signal path. The auto tracking delay and manual adjustments do not introduce any pops, clicks, or audio disturbance whatsoever.

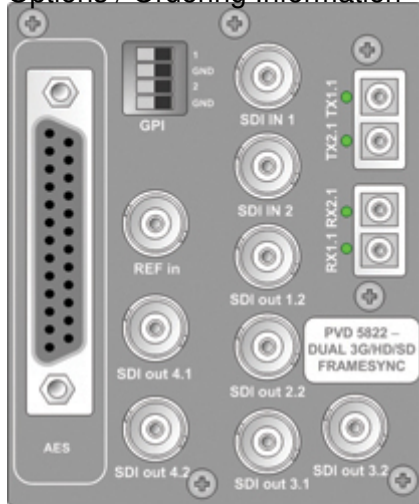
Optional SDI fiber I/O is also available, including full CWDM support with 18 wavelength selections. All modules are supplied fiber ready and this can be added at any time by simply plugging in the optional SFP fiber module.

The P VD 5822 is configured and driven using the LYNX APPolo control system, which provides an

intuitive graphical visualization for the status, control, monitoring and configuration of the module.

With two rack frame choices the packing density will accommodate multiple channels in a very limited space; up to 10 channels in a 2RU frame and up to 4 channels in a 1RU frame. The perfect solution for OB vans or any application where space is at a premium.

Options / Ordering Information



PVD 5822 DO - Balanced AES Audio

Ordering Information

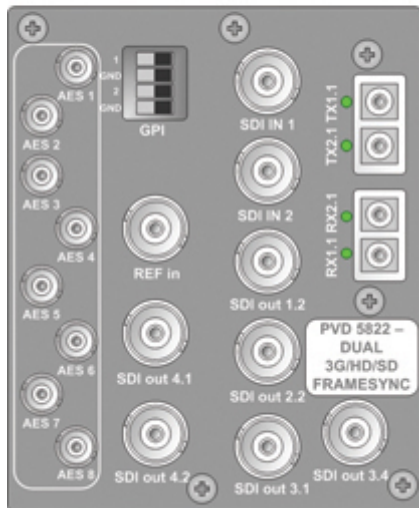
PVD 5822 DO Dual Frame Sync + Audio Processing (balanced AES)

Includes. Module, rear connection panel and manual (on CD)

PVD 5822 UO - Dual Frame Sync + Audio Processing (unbalanced AES)

Includes. Module, rear connection panel and manual (on CD)

Note. This module has double width back panels and will occupy two slots in the rack frames



PVD 5822 UO - Unbalanced AES Audio

Options (Activated with license code)

OC-5822-SCND Second Input

Fiber I/O Selection

OH-TX-1 Single Channel Transmitter (non CWDM)
10Km (1310nm TX: Power -5dBm)

OH-TT-1 Dual Channel Transmitter (non CWDM)
10Km (1310nm, 1310nm TX: Power -5dBm)

OH-RX-1 Single Channel Receiver
(RX: 1260nm-1620nm -3dbm to -19dBm)

OH-RR-1 Dual Channel Receiver
(RX: 1260nm-1620nm -3dbm to -19dBm)

Note: Dual channel receiver requires OC-5822-SCND option

CWDM Fiber Transmitters

OH-TX-4-XXXX Single Channel Transmitter (CWDM)

40Km (TX: Power -1dBm)

XXXX = Wavelength Select from:

1270,1290,1310,1330,1350,1370,1390,1410,1430,1450,
1470,1490,1510,1530,1550,1570,1590,1610nm

OH-TT-4-XXXX-XXXX Dual Channel Transmitter (CWDM)

40Km (TX: Power -1dBm)

XXXX-XXXX = Wavelength (pair) Select from: [1270 + 1290],[1310
+1330], [1350+1370],[1390+1410],[1430+1450],
[1470+1490],[1510+1530],[1550+1570],[1590+1610nm]

Downloads



[Cut Sheet / Specification](#)



[User Manual](#)