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IMS-VSI: Video Synchronization Input Card

Video signal input module
The VSI (Video Synchronization Input) card provides video signals to an IMS clock module as reference. It can process Black Burst (PAL), LTC (Linear Time Code) and programmable Word Clock Rates.

Furthermore the board has a 1PPS input to synchronize the receiver module.

Role as Black Burst-to-PTP converter
The IMS-VSI enables users to set up a Black Burst-to-PTP converter with a LANTIME IMS system. This requires a VSI input module and an HPS100 module in PTP Grandmaster mode. The internal clock module is synchronized via the video input signal. The receiver module then serves the HPS100 card with an accurate and stable time base.

Key Features

- Reference input signals: Black Burst (PAL SMPTE259M/ITU-R BT.470-6) Input with VITC reader (SMPTE12M-1/SMPTE ST309M) Black Burst (PAL) Input with Prescaler mode (no VITC, frequency only) Linear Time Code LTC Reader (25 FPS as per SMPTE ST12) Word Clock Input with programmable frequency range 1PPS input

Characteristics

Reference Options

* Black Burst (PAL SMPTE259M/ITU-R BT.470-6) Input with VITC reader (SMPTE12M-1/SMPTE ST309M)
* Black Burst (PAL) Input with Prescaler mode (no VITC, frequency only)
* Linear Time Code LTC Reader (25 FPS as per SMPTE ST12)
* Word Clock Input with programmable frequency range
* 1PPS input

Status info	**Status info by 4 LED light indicators (2mm light pipes):** Initialisation, normal operation and state of the reference input signals.
Electrical Connectors	4 x BNC female connector
Current consumption	5 V, +-5%, 250 mA
Ambient temperature	0 ... 50°C / 32 ... 122°F
Humidity	Max. 85%
Warranty	Three-Year Warranty
RoHS-Status of the product	This product is fully RoHS compliant
WEEE status of the product	This product is handled as a B2B category product. In order to secure a WEEE compliant waste disposal it has to be returned to the manufacturer. Any transportation expenses for returning this product (at its end of life) have to be incurred by the end user, whereas Meinberg will bear the costs for the waste disposal itself.

Manual

The english manual is available as a PDF file: [1]Download (PDF)

Links:

[1] https://www.meinbergglobal.com/download/docs/manuals/english/vsi180.pdf