

### Number of Channels

Two independent channels with support for stereoscopic signals.

### Up-, Down- and Crossconversion between common HD- and SD-signals

The module accepts common HD or SD-formats and is capable of up-, down- and crossconversions including film formats.

### Aspect Ratio Conversion

Converts aspect ratios from and to common formats like 4:3 and 16:9.

WSS, VideoID, Video Indexing and AFD are supported.

### Frame Synchronization & Timebase Correction

A full frame TBC feature is included with adjustable and flexible system timing using the analog genlock reference inputs.

### Video In-/Outputs

One HD/SD SDI input and two HD/SD SDI outputs per channel are provided.

### Video Noise Reduction

Powerful video noise reduction eliminates random video noise in luminance and chrominance components.

### Detail Enhancement

Enhancement (aperture correction) allows crisp clear pictures.

### Color Correction

The module features an RGB color corrector.

Black level, white level and gamma can be controlled independently.

### Legalization

A RGB legalizer is also provided.

Upper and lower limits can be controlled independently for each RGB color channel.

### Gain, Amplitude and Color Control

The module includes a Proc Amp that gives full control of video gain, black level and Y/C timing.

### VBI and Test pattern generator

The module features a test pattern generator and a configurable VBI-area.

Test line insertion for online measurement of signal quality is supported.

### Audio

The module processes video signals as well as the associated audio data. It supports the full set of 16 embedded audio channels.

The delay of the audio channels can be adjusted independently. This is a powerful feature to deal with differences in the processing delay of video and audio and correct potential lip sync problems.

The following list of features illustrates the overall flexibility of the audio subsystem.

- support for all 4 SDI audio-groups (16 channels)
- delay adjustable from 4ms to 1023ms for each channel individually
- automatic delay correction
- level adjustable from  $-\infty$  to +18 dB for each channel individually
- fully configurable routing matrix
- support for sampling rates of 32 / 44.1 / 48 kHz
- support for Dolby E (optional)

### Presets

In addition to the presets provided for several groups of functions, full module presets are also supported.

They allow storing and recall of complete module setups.

Presets can also be saved and recalled to/from a PC via the remote control software.

### Control

The module fully integrates into ICONN control environment.

## Input Formats and Video Standards

**HD/SD SDI** Serial Digital Component , 10 Bit,  
ITU BT.656 / SMPTE 259M (270 MBit),  
SMPTE 292M (1.485 GBit), SMPTE  
424M / 425, Level A/B (2.97 GBit)

**Genlock** Trilevel / SD blackburst input

## Input Video Connectors

**HD/SD SDI** 1 x BNC per channel

## Output Formats and Video Standards

**HD /SD SDI** Serial Digital Component , 10 Bit,  
ITU BT.656 / SMPTE 259M (270 MBit),  
SMPTE 292M (1.485 GBit), SMPTE  
424M / 425, Level A/B (2.97 GBit)

## Output Video Connectors

**HD/SD SDI** 2 x BNC per channel

## Audio Processing

Audio Delay Time 4-1023ms  
Audio Gain  $-\infty$  ... +18dB  
Number of embedded channels: 16  
Internal processing 32 Bit  
channel swap via routing matrix  
support for Dolby E (optional)

## Video Processing

10 Bit Interfacing  
12 Bit Processing  
Enhancement, Noise Reduction Y and C  
Full Frame TBC  
Aspect Ratio Conversion  
RGB Legalizer  
RGB Color Corrector

## Power Requirements

Power Consumption <20W

## Physical

Size	Module 3 RU
Temperature	0°C - 35°C (operation) -20°C - 75°C (storage)
Humidity	10% - 90% non condensing



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