

8022

HD/SD Up/Down/Cross Converter with Digital and Analog Outputs

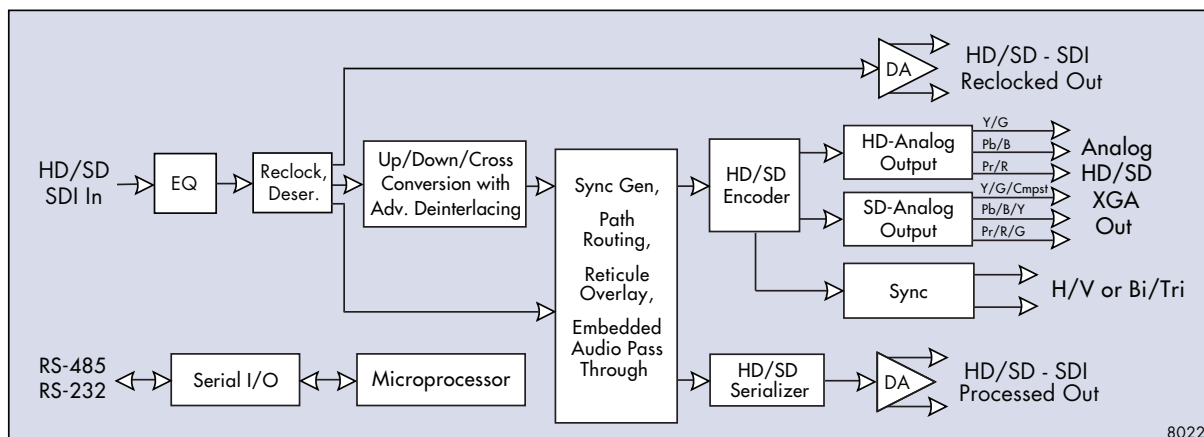


The 8022 is an HD/SD converter featuring advanced 10-bit format conversion. The 8022 accepts HD/SD SMPTE-292/259M SDI and can up or downconvert incoming signals and re-aspect to 4 x 3, 16 x 9 or user programmable aspect ratios. In addition, the 8022 can cross-convert HD signals between 1080 and 720. Both digital and analog HD/SD and XGA outputs are available. The 8022 can frame-rate convert 24 frame video to 60 frames, move interlaced to progressive, and progressive to interlaced. The unit also has extensive user-configurable reticule overlays.

The 8022 uses 10-bit video processing, advanced de-interlacing and motion adaptation with 12-bit analog encoding. The 8022 includes embedded audio passthrough with delay correction. The unit can be configured via DIP switches or remote controlled.

Features

- High quality up, down and cross format conversion
- Three outputs: HD/SD digital or analog HD and SD
- Auto standard detect and configuration SMPTE 292/259M
- Full aspect ratio conversion and pan controls
- Wideband analog YPbPr, RGB or XGA output
- Four user programmable reticules
- PC remote control available
- 3:2 frame rate and HD standards conversion
- Two dual rate HD/SD relocked input copies
- 10-bit video path and 12-bit analog encoding
- Supports 16 channels of embedded audio in all conversion formats
- Automatic audio delay tracking with user offset
- External configuration switches and remote port
- Adjustable output gain control
- Five year warranty



8022 Block Diagram

Specifications

Input

HD-SDI SMPTE-292
and SD-SDI SMPTE-259M

Output

2 relocked HD/SD input copies
2 up/down/cross converted HD/SD outputs
HD: YPbPr, RGB or XGA w/tri/bi or H&V sync
SD: composite, component and Y/C

Frequency Response

HD: Y: 28 MHz +/- 0.25 dB,
Pb/Pr: 13 MHz +/- 0.25 dB
SD: 0-5.25 MHz +/- 0.25 dB

Sync Output

Bi or tri-level and XGA H/V

Overlay Reticules

4 presets types: center cross, 4x3 safe area,
4x3 full aperture, and 16x9 safe area with user
programmable size and thickness.
Colors: black, white, red, blue or user defined color

Proc. Control

Digital control of gain, DC, saturation
and hue with user values saved and factory presets

Power

5-18 VDC @ 12 watts
Requires Power Supply PS24

Size

10.3" x 5.9" x 1" (260 x 150 x 25mm)

Ordering Information

- 8022** Up/Down/Cross Converter with 8021 features and Advanced Deinterlace with Motion Adaptation (Includes one HD5BNC Cable)
PS24 Universal Power Supply, IEC Connector, CE/UL/CSA, Input: 100-240 60/50 Hz, Output: 12V 2.5A