

# 8024

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

The 8024 is an HD/SD converter featuring advanced 10-bit format conversion. The 8024 accepts HD/SD SMPTE-292/259M SDI inputs and can up or down convert incoming signals and re-aspect to 4x3, 16x9 or user programmable aspect ratios. In addition, the 8024 can cross-convert HD signals between 1080 and 720. Both digital and analog HD/SD and XGA outputs are available. The 8024 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 8024 uses 10-bit video processing, advanced de-interlacing and motion adaptation with 12-bit analog encoding. The 8024 includes embedded audio passthrough with delay correction. The unit is controlled by the front control switches and LCD screen or is controlled remotely via a PC interface. Options: PC remote control, Anton Bauer™ Gold Mount battery connector, and rack mount kit (holds 2 units).



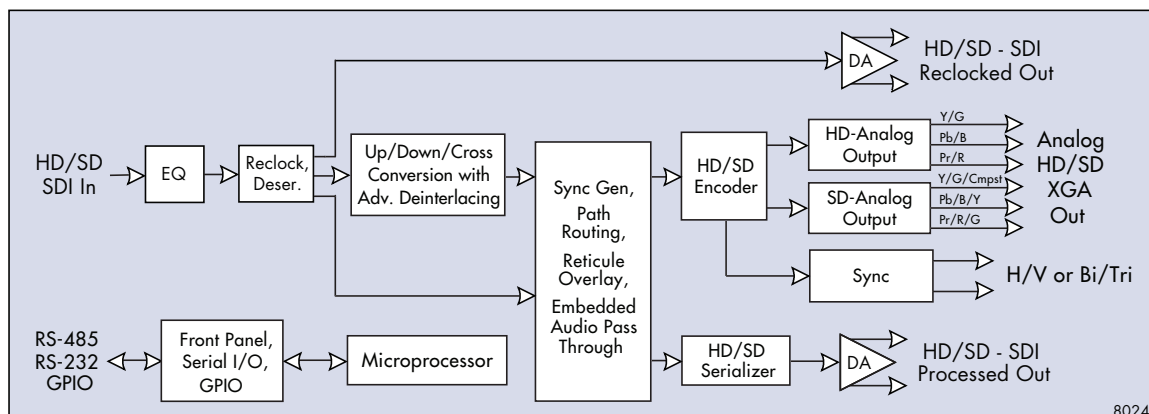
Front View



Rear View

### Features

- High quality up, down and cross format conversion
- Single input auto standards detect SMPTE 292/259M
- Two dual rate HD/SD reclocked input copies
- Two digital outputs: HD/SD-SDI
- Two analog outputs: HD/SD-YPbPr, RGB or XGA output
- 10-bit video path and 12-bit analog encoding
- Full aspect ratio conversion and pan controls
- Four user programmable reticules
- 3:2 frame rate and HD conversion
- 100 user definable presets
- Supports 16 channels of embedded audio in all conversion formats
- Automatic audio delay tracking with user offset
- PC remote control software provided
- Adjustable output gain control
- Redundant power option
- Five year warranty



8024 Block Diagram

### Specifications

#### Input

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

#### Output

2 reclocked dual rate 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

#### 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

#### Sync Output

Bi or tri-level and XGA H/V

#### Power

7-18 VDC @ 15 watts  
Requires Power Supply PS24

#### Size

13.9" x 8.7" x 1.7" (353 x 221 x 43 mm)

### Ordering Information

- 8024** Up/Down/Cross Converter with 8022 and Front Panel Control in a 1RU ½ Rack Width Chassis (Includes one HD5BNC Cable)
- 8024RMK** 8024 Dual Chassis Rack Mount Kit
- PS24** Universal Power Supply, IEC Connector, CE/UL/CSA, Input: 100-240 60/50 Hz, Output: 12V 2.5A