



## DUAL SDI TO HDMI FOR 3G/3D/HD/SD

**Monitor • Distribute • Switch • Multiplex • Converge**

As a broadcast engineer or A/V professional you likely have diverse needs when it comes to managing SDI signals within your environment - for monitoring, distributing, switching, multiplexing, and processing 3D in real time. Until now, you have been forced to purchase different devices to perform these tasks. The new Matrox MC-100 solves all these challenges in one inexpensive, easy-to-use device.

Matrox MC-100 is a dual SDI to HDMI mini converter that supports a wide range of display resolutions through 3G, Dual Link, HD, and SD-SDI. This single portable unit can be used as a HD-SDI switcher, a distribution amplifier, a multiplexer, and a 3D processing unit, making it the most versatile mini converter on the market. It should be in every video professional's toolbox.

### Monitor SDI on inexpensive HDMI displays

Take your SDI video signal with 16 channels of embedded audio and convert it to HDMI. Whether you're using RGB or YUV, Matrox MC-100 maintains the full 10-bit video spectrum of the signal, up to a resolution of 1920 x 1080. Eight channels of embedded audio are supported on HDMI, selectable between the first and second set of 4 pairs.

### Configure using On-Screen-Display

Quickly and efficiently configure your Matrox MC-100 via the on-screen-display (OSD) menu available on all outputs. There is no need for a computer connection. Every MC-100 feature is accessible through the OSD, which is controlled by three buttons directly on the unit. User-defined presets can be saved to dip switches for even quicker setup.

### Distribute and amplify SDI signals

Configure MC-100 as a distribution amplifier to boost the strength of your SDI signals by 300 meters on SD-SDI, 100 meters on HD-SDI, and 70 meters on 3G-SDI. Duplicate a single SDI input signal to two independent, amplified signals.

### Switch between two SDI signals

Toggle between two SDI inputs at the touch of a button, glitch-free as per SMPTE RP-168. MC-100 is also a loss-of-signal switcher. You can configure the device to automatically switch to the second valid input if the first one is lost or becomes invalid. As an added benefit, the LEDs on MC-100 illuminate green or red depending on signal validity.

### Key features

- Two SDI inputs and two SDI outputs for 3G, Dual Link, HD, and SD
- HDMI output for monitoring
- On-screen-display controlled by easily accessible hardware buttons for straightforward configuration on your HDMI and/or SDI monitors
- Multi-format SDI signal distribution
- SDI signal amplification - 300 meters in SD, 100 meters in HD, 70 meters in 3G
- Glitch-free switching between two HD-SDI feeds
- Loss-of-signal switching in case of invalid or lost input signal
- Multiplexing of two HD-SDI video signals into a single 3G-SDI feed
- Realtime 3D processing including Horizontal Image Translation (HIT) and vertical offset adjustments
- Industry-standard 3D analysis modes - Anaglyph, Difference, 50/50
- Comprehensive 3D output format support - Side-by-Side, Over/Under, Frame Packing
- Video time base corrector and frame synchronizer for 3D workflows
- 16 channels of embedded audio on SDI
- 8 channels of embedded audio on HDMI, selectable between the first and second set of 4 pairs
- Synchronization of both SDI inputs
- Convenient programmable dip switches for user defined presets
- Power cord with locking connector included
- Three-year hardware warranty and complimentary telephone support

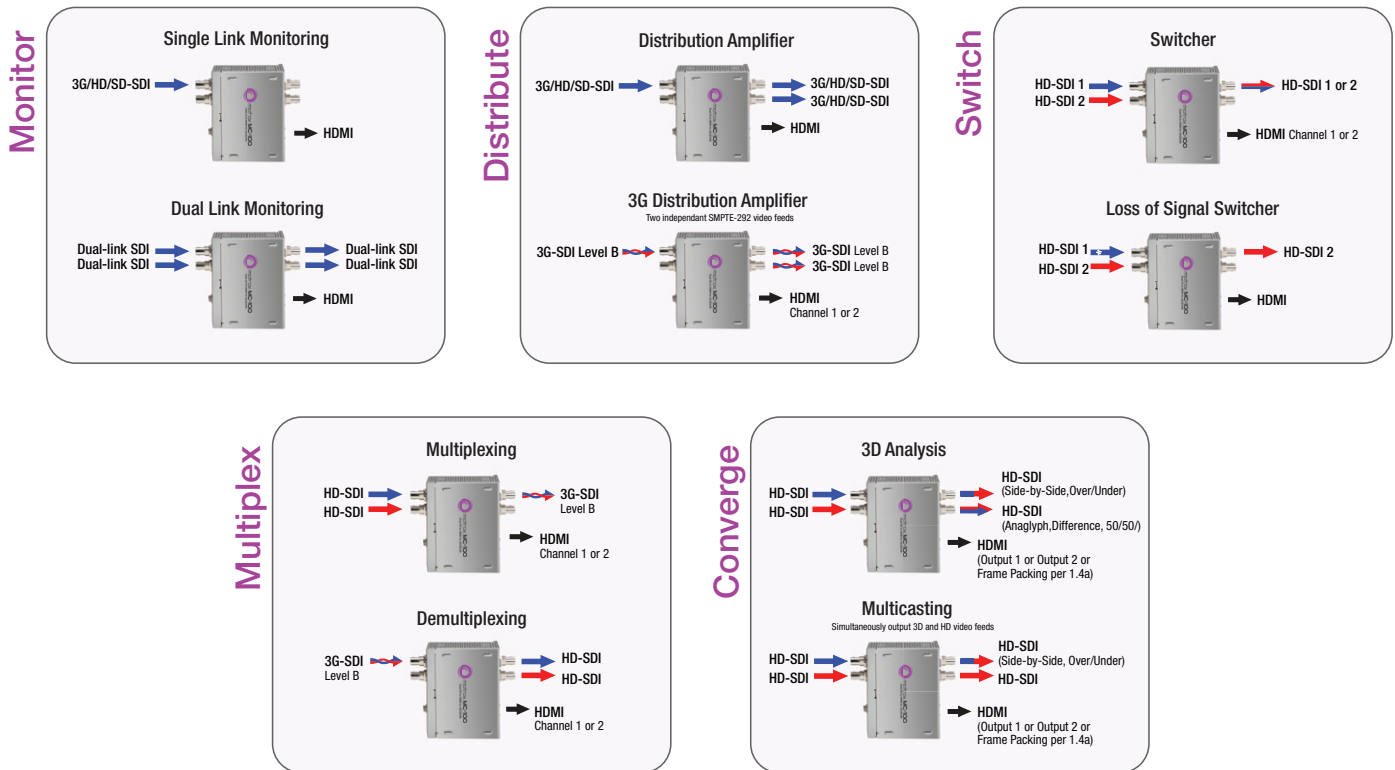
## Multiplex two SDI signals into one 3G video feed

Transport your SDI signals efficiently using MC-100 to multiplex two HD-SDI signals into a single 3G-SDI stream. On the receiving end, a second MC-100 or another SMPTE-425M compatible device demultiplexes the signal, providing two independent HD-SDI video signals. Being able to multiplex two SDI signal means that you'll need just half the wiring to distribute HD-SDI video signals.

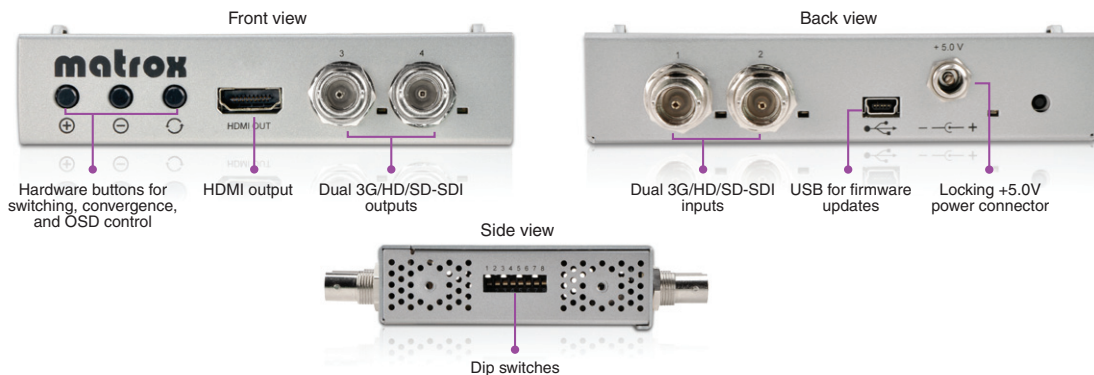
## Process and monitor 3D SDI signals in real time

Use the cutting-edge processing power of MC-100 to make multiple adjustments on stereoscopic video feeds in real time. Hardware buttons let you perform Horizontal Image Translation (HIT) – pixel-based convergence and divergence – on both video inputs. The images can be flipped horizontally and/or vertically, with pixel-based offset controls. Monitoring 3D content can be done on the HDMI or SDI outputs, with several analysis modes such as anaglyph, difference and 50/50. The signal can then be sent on a single SDI cable as a side-by-side or an over/under feed. On HDMI it can be sent in side-by-side, over/under, or frame packing mode. MC-100 also features a built-in video frame synchronizer that is useful for 3D production. When you define one of the video inputs as the reference source, the unit time base corrects the second video input and outputs the two video streams in sync.

## MATROX MC-100 WORKFLOWS



## MATROX MC-100 CONNECTIONS



[www.matrox.com/video](http://www.matrox.com/video)

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