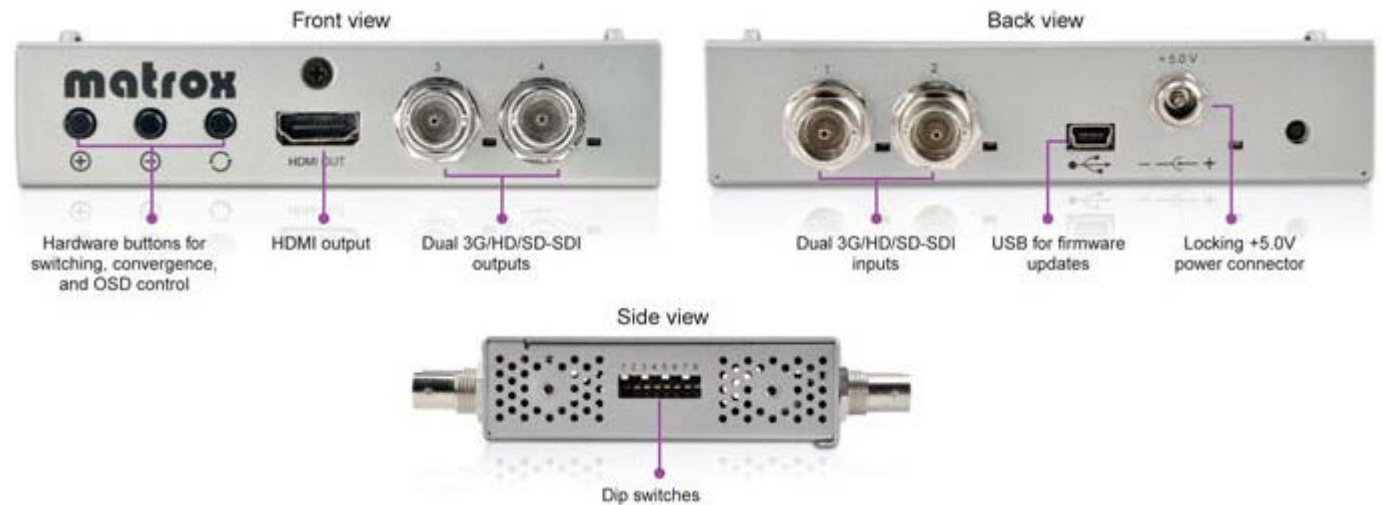




- Overview
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## Matrox MC-100 Connections

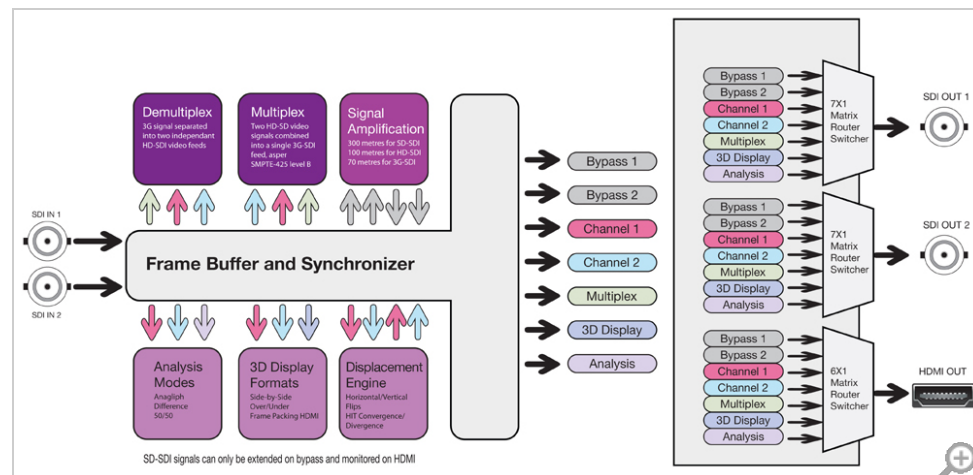


## Matrox MC-100 Technical Specifications

<b>Dimensions</b>	<ul style="list-style-type: none"> <li>Length: 125 mm</li> <li>Width: 118 mm</li> <li>Height: 26 mm</li> <li>Weight: 220g</li> </ul>
<b>Inputs and Outputs</b>	<ul style="list-style-type: none"> <li>Two BNC 3G/HD/SD-SDI inputs</li> <li>Two BNC 3G/HD/SD-SDI outputs</li> <li>HDMI output</li> <li>Mini USB Type B for firmware updates</li> </ul>
<b>Standards</b>	<ul style="list-style-type: none"> <li>SDI compliance with SMPTE-259M/292M/372M/424M/425M</li> <li>SDI support of YUV 4:2:2 8-bit/10-bit</li> <li>SDI redundant inputs with loss-of-signal switcher</li> <li>Automatic SDI output selection between 3G/HD/SD-SDI dependent on input signal</li> <li>HDMI support of YUV 4:2:2, and RGB</li> </ul>
<b>Advanced Features</b>	<ul style="list-style-type: none"> <li>Glitch-free switching as per SMPTE RP-168</li> </ul>

	<ul style="list-style-type: none"> <li>• Multiplexing of two HD-SDI signals over a single 3G cable as per SMPTE-425M level B</li> <li>• Vertical and/or horizontal flips on both video channels</li> <li>• Pixel-based convergence adjustments on both video channels</li> <li>• Pixel-based vertical offsets on both video channels</li> <li>• Video time base corrector and frame synchronizer using SDI1 or SDI2 as reference input</li> </ul>
<b>Input Display Resolutions</b>	<ul style="list-style-type: none"> <li>• NTSC</li> <li>• PAL</li> <li>• 720p 50/59.94/60</li> <li>• 1080i 50/59.94/60</li> <li>• 1080p 23.98/24/25/29.97/30</li> <li>• 1080PsF 23.98/24/25/29.97/30</li> <li>• 1080p (Level A) 50/59.94/60</li> <li>• 1080p (Level B) 50/59.94/60</li> <li>• 1080p Dual link 50/59.94/60</li> </ul>
<b>Display Formats</b>	<ul style="list-style-type: none"> <li>• 3D display formats on SDI: Over/Under, Side-by-Side</li> <li>• 3D display formats on HDMI: Over/Under, Side-by-Side</li> <li>• Frame Packing</li> <li>• Analysis display modes: Anaglyph, 50/50, Difference</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>• SDI audio: 16 channels embedded</li> <li>• HDMI audio: 8 channels embedded, selectable between the first and second set of 4 pairs</li> </ul>
<b>Electrical and Operating Requirements</b>	<ul style="list-style-type: none"> <li>• Unit voltage and amperage: 5V/3Amps</li> <li>• Operating temperature: 0 to 40° C</li> <li>• Storage temperature: -40 to 75° C</li> <li>• Maximum altitude for operation: 3,000 meters</li> <li>• Maximum altitude for transport: 12,000 meters</li> <li>• Operating humidity: 20 to 80% relative humidity (non-condensing)</li> <li>• Storage humidity: 5 to 95% relative humidity (non-condensing)</li> </ul>
<b>General</b>	<ul style="list-style-type: none"> <li>• Universal locking power supply with international socket adapters included 3-year limited manufacturing warranty</li> </ul>

## Matrox MC-100 Block Diagram



# Matrox MC-100 Workflows

