



#### Technical Information

##### Connections

Total Video Inputs:8

SDI Video Inputs: 4 x 10 bit SD/HD switchable

HDMI Video Input: 4 x HDMI 1.4a 10 bit SD/HD switchable

Analog Video Input: 1 x 10 Bit Component/S-Video/Composite. Component SD/HD switchable.

Audio Input: 2 Ch analog balanced XLR via breakout cable

Sync Input: Tri-Sync or black burst

Internal Frame Synchronizers: 8. All inputs

Total Outputs: 14

SDI Program Outputs: 1 x 10 bit SD/HD switchable

HDMI Program Outputs: 1 x HDMI 1.4a 10 bit, SD/HD switchable

Analog Program Outputs: 1 x Component SD/HD switchable and 1 permanently down converted composite NTSC/PAL output

Down Converted SDI Program Outputs: 1 x 10 bit SDI

Down Converted Composite Program Outputs: 1 x NTSC/PAL

SDI Preview Outputs: 1 x 10 bit SD/HD switchable

SDI Aux. Outputs: 3 x 10 bit SD/HD switchable

Computer Output:1 x USB 3.0 from Aux. 1 output. Media Express for Windows included.

Quantity of Multi View's:1

Outputs Per Multi-View: 1 x HD-SDI and 1 x HDMI

SDI Audio Outputs: 2 Ch embedded into SDI output

Analog Audio Outputs:2 Ch balanced XLR via breakout cable

Control Panel Connection: Ethernet supports 10/100/1000

BaseT. Allows direct connection between panel and chassis, or via network.

#### Technical Information

Control Panel Included: ATEM Software Control Panel included free for Mac OS X and Windows.

Serial Communication Outputs: 1 x RS-422

Tally Outputs: Added via ethernet connection GPI and Tally Interface product. (not included)

GPI: Added via ethernet connection GPI and Tally Interface product. (not included)

Software Updates: Using USB connection directly connected to Mac OS X or Windows computers. Includes ATEM Switcher Utility.

Configuration: Set via ATEM Software Control Panel, excluding ATEM chassis IP address which is set via the ATEM Switcher Utility connected via USB to chassis.

#### Product Information

- The most advanced broadcast grade production switchers

- Premium Quality with advanced technology

- Fast and easy to use

- Powerful features

- SDI based design,also includes HDMI connections

- Compact 2 RU size

- You can run on your laptop with software for Mac and Windows!

- Fully digital 10-bit design.

- Build-in multi-view allows 10 channels of video to be displayed on a single SDI or HDMI television or monitor

- Preview transition

**Disclaimer:** Changes in the data may have been made by the manufacturer without notice.

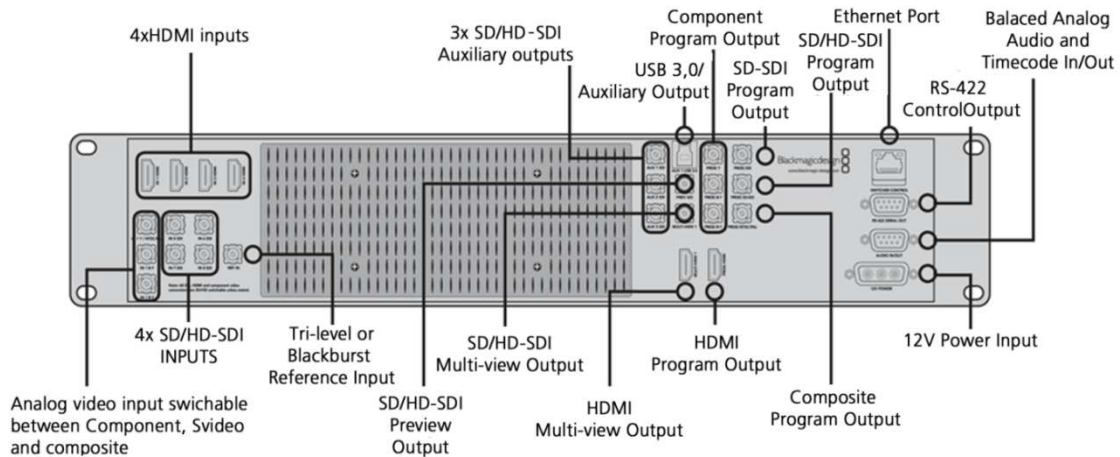
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## 4\*HDS/4\*HDMI PRODUCTION SWITCHER



### Technical Information

#### Processing:

Colorspace Conversion: Hardware based real time.

Processing Delay: 1 Line

HD Down Conversion: Built in, high quality hardware down converter always outputs to SD-SDI and composite outputs when working in HD video formats. Component output can be switched between HD or SD. Selectable between letterbox, anamorphic 16:9 and center cut 4:3 styles.

#### Standards:

HD Format Support: 1080i50, 1080i59.94, 720p50, 720p59.94.

SD Format Support: 625/25 PAL, 525/29.97 NTSC.

SDI Compliance: SMPTE 259M, 292M.

Video Sampling: 4:2:2 10 bit

Color Precision: 4:2:2 10 bit

Color Space: 4:2:2 YUV

#### Media Player:

Media Players: 2

Channels: 2x for fill and key

Media Pool Still Image Capacity: 32 with fill and key

Media Pool Clip Capacity: 2 with fill and key

Maximum Clip Length in 1080i: 180 Frames

Maximum Clip Length in 720p: 360 Frames

Maximum Clip Length in NTSC/PAL: 900 Frames

Media Pool Still Image Format: PNG, TGA, BMP, GIF, JPEG and TIFF

Media Pool Video File Format: QuickTime and AVI

Media Pool Audio File Format: WAV, MP3, AIFF

Multi View Monitoring:

Number of Windows: 1 x 10

Routable Windows: 8

Tally: Red for program and green for preview indication

Window Source Labels: Yes

### Technical Information

#### Computer Resolutions:

HDMI Input Resolutions for Computers: 720 x 480 59.94Hz, 720 x 576 50Hz, 1280 x 720 59.94Hz 50Hz and 1920 x 1080 59.94Hz 50Hz

#### Dimensions and Power:

Dimensions: 2 Rack Units

Weight: 2.4 kg

Input Voltage: 12V

Power Consumption: 50W

#### Extras:

Total Quantity of Keys: 7

Upstream Keys: 4

Downstream Keys: 2

Linear/Luma Keys: 7

Chroma Keys: 4

Pattern Generators: 5

Color Generators: 2

Transition Keyer (Stinger/DVE): 1

SuperSource Keys: None

SuperSource Box Generators: None

DVE with 3D Borders & Drop Shadow: 1

Control Panel Compatibility: ATEM 1 M/E Broadcast Panel preferred. Compatible with ATEM 2 M/E Broadcast Panel.

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