ATEM Television Studio

Technical Specifications

Description

The production switcher for the internet age! ATEM Television Studio is a full broadcast quality production switcher with real time H.264 encoding so you can capture live events directly to files for internet distribution! ATEM Television Studio includes 6 video inputs with both broadcast SDI and consumer HDMI inputs for cameras and computers. You get software control panel, chroma keyer, two media player frame-stores, downstream keyers, transitions and more! Also works with ATEM control panels!

Connections

Tally Output

Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included.)

Total Video Inputs

6

Total Outputs

6

SDI Video Input

4 x 10-bit SD/HD switchable. 2 channel embedded audio.

HDMI Video Input

4 x HDMI type A, 10-bit SD/HD switchable. 2 channel embedded audio.

Sync Input

Tri-Sync or Blackburst

Internal Frame Synchronizers

6. All inputs.

SDI Program Output

2 x 10-bit SD/HD switchable

HDMI Program Output

1 x HDMI type A, 10-bit SD/HD switchable

SDI Audio Output

2 Ch embedded into SDI output.

Audio Input

1 x AES/EBU. Unbalanced via BNC connector.

Computer Output

1 x USB 2.0 H.264 encoded from program output. Media Express for Mac OS X and Windows included.
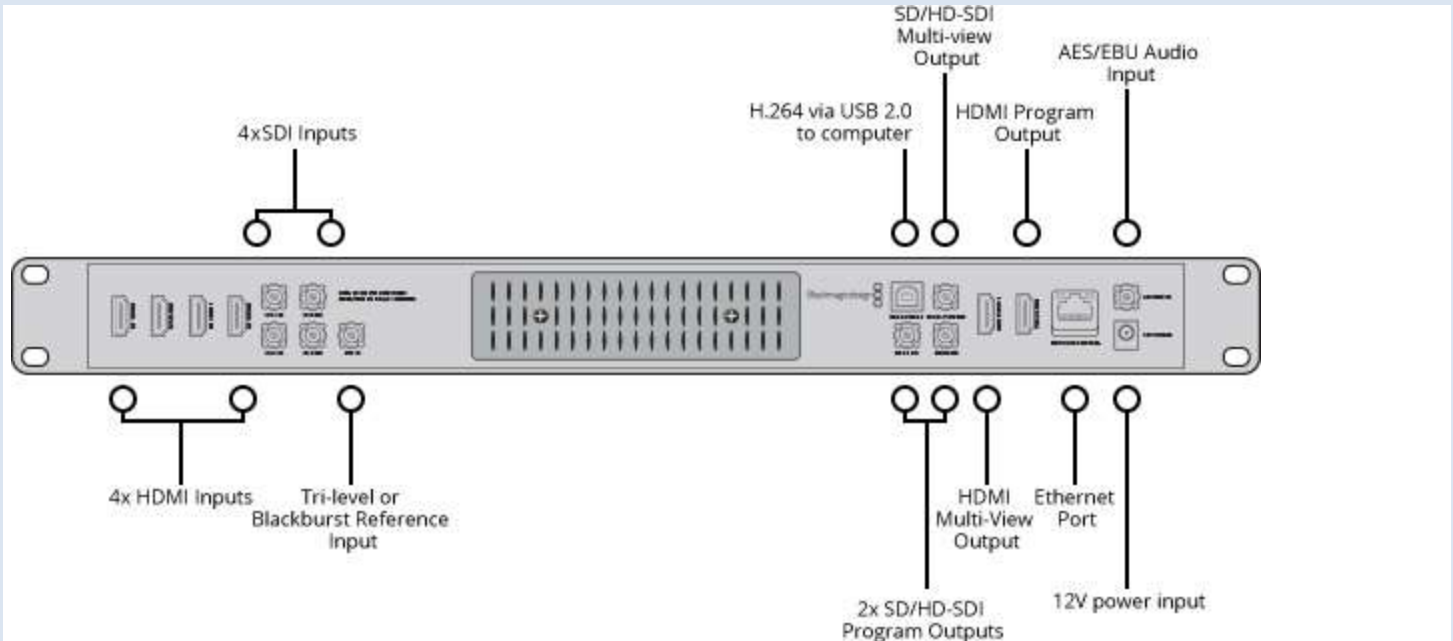
Qty of Multi-Views

1

Outputs per Multi-View

1 x HD-SDI and 1 x HDMI

Control Panel Connection

Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network.

Standards

SD Format Support

625/25 PAL 4:3, 525/29.97 NTSC 4:3

HD Format Support

1080i50, 1080i59.94, 720p50, 720p59.94.

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

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.

Colorspace Conversion

Hardware based real time.

Processing Delay

1 Line

Audio Mixer

7 input x 2 channel mixer.

Selectable On/Off/Audio-Follow-Video.

Level and Peak metering.

Master gain control.

Software

Control Panel Included

ATEM Software Control Panel included free for Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks or later and Windows 7 64-bit or Windows 8 32-bit or 64-bit.

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.

Operating Systems

Mac OS X 10.8 Mountain Lion and Mac OS X 10.9 Mavericks or later.

Windows 7 64-bit or Windows 8 64-bit.

Product Specifics

Interface

Minimum monitor resolution of
1366 x 768.

Media Players

2

Channels

Fill and key for each Media Player.

Media Pool Still Image Capacity

20 with fill and key.

Media Pool Still Image Format

PNG, TGA, BMP, GIF, JPEG and TIFF

Number of Windows

1 x 10

Routable Windows

Fixed Routing

Total Number of Layers

3

Upstream Keyers

1

Downstream Keyers

2

Linear/Luma Keyers

3

Chroma Keyers

1

Pattern Generators

2

Color Generators

2

Tally

Red for program and green for preview indication.

Windows Source Labels

Yes

Control Panel Compatibility

Includes ATEM Software Control Panel. Also compatible with ATEM 1 M/E Broadcast Panel and ATEM 2 M/E Broadcast Panel.

Input Voltage

12V-30V

Power Usage

20W

Physical Specifications

What's Included

ATEM Television Studio

Power Supply and international adapters

Warranty

12 Months Limited Manufacturer's Warranty.

Repair policy

Warranty details can be found in the ATEM Switchers Operation Manual in the support page at www.blackmagicdesign.com