

ATEM Television Studio HD



ATEM Television Studio HD is the first production switcher designed for both broadcasters and AV professionals. It includes 4 SDI and 4 HDMI inputs with re-sync on all inputs so you can use it with broadcast or consumer cameras. ATEM Television Studio HD is packed with high end features and is perfect for live production, episodic television programming, web shows, AV or even live coverage of gaming competitions! Simply plug in cameras, game consoles or computers and start switching live!

\$995

Connections

Total Video Inputs

8

Total Outputs

8

Total Aux Outputs

1

SDI Rates

270Mb, 1.5G, 3G.

Total Audio Inputs

2 x XLR.

Total Audio Outputs

1 x Headphone.

Timecode Connection

None.

SDI Video Inputs

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

HDMI Video Inputs

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

Reference Inputs

Tri-Sync or Black Burst.

Video Input Re-Sync

On all 8 inputs.

SDI Program Outputs

5 x 10-bit SD/HD switchable.

HDMI Program Outputs

None.

SDI Audio Outputs

2 Ch embedded into SDI output.

Total Multi Views

1

SDI Multi View Outputs

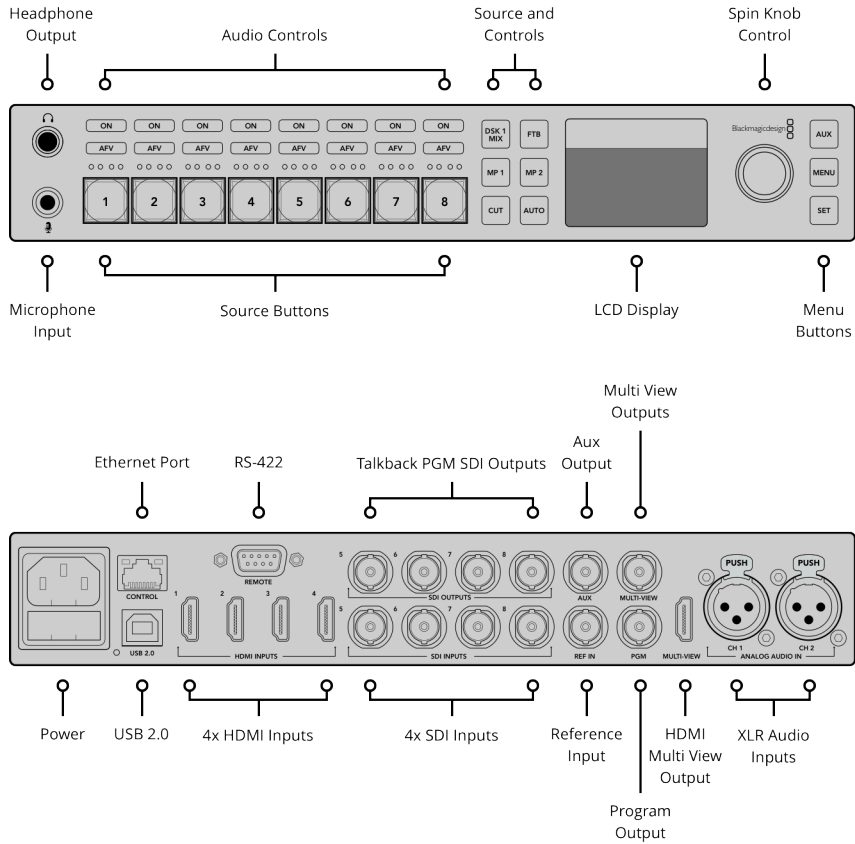
1

HDMI Multi View Outputs

1

Computer Outputs

None.



Standards

SD Video Standards

525i59.94 NTSC 4:3 or 16:9, 625i50 PAL 4:3 or 16:9

HD Video Standards

720p50, 720p59.94
 1080p23.98, 1080p24, 1080p25,
 1080p29.97, 1080p50, 1080p59.94,
 1080i50, 1080i59.94

Ultra HD Video Standards

None.

SDI Compliance

SMPTE 259M, 292M and 424M.

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 480i 59.94Hz, 720 x 576i 50Hz,
 1280 x 720p 59.94Hz 50Hz and 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94 and 1920 x 1080i 50 and 59.94Hz 60Hz.

Colorspace Conversion

Hardware based real time.

Processing Delay

6 Lines.

Audio Mixer

10 input x 2 channel mixer. Selectable On/Off/Audio-Follow-Video. Level and Peak metering. Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.

Product Specifics

Upstream Keys

1

Downstream Keys

2

Chroma Keys

1

Linear/Luma Keyers 3	Pattern Generators 2	Routable Windows 8 routable and 2 fixed for Program and Preview.
Talkback Support Built in, uses aviation headset.	Color Generators 2	Tally Red for program and green for preview indication.
Mix Minus Support Yes, on 4 camera PGM outputs.	DVE with 3D Borders & Drop Shadow 1	Tally Output Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included.)
Transition Keyer (Stinger/DVE) DVE only.	Interface Minimum monitor resolution of 1366 x 768.	Windows Source Labels Yes
Total Number of Layers 5	Number of Windows 1 x 10	

Multi View Monitoring

Multi View Monitoring 1 x 10 Views.	Multi View Video Standard HD
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Media Player

Media Players 2, with non volatile flash memory.	Media Player Clip Length in 720 HD None.	Media Pool Video File Format None.
Channels Fill and key for each Media Player.	Media Player Clip Length in 1080 HD None.	Media Pool Audio File Format None.
Media Pool Still Image Capacity 20 with fill and key.	Media Player Clip Length in Ultra HD None.	
Media Pool Clip Capacity None.	Media Pool Still Image Format PNG, TGA, BMP, GIF, JPEG and TIFF.	

Control

Control Panel Built in control panel. Software control panel included. Supports optional broadcast panel.	Control Panel Compatibility Includes ATEM Software Control Panel. Also compatible with ATEM 1 M/E Broadcast Panel and ATEM 2 M/E Broadcast Panel.	Control Panel Included ATEM Software Control Panel included free for Mac 10.10 Yosemite, Mac 10.11 El Capitan or later and Windows 8.1 64-bit or Windows 10 64-bit.
Control Panel Connection Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network. Also used for updating the software.		

Software

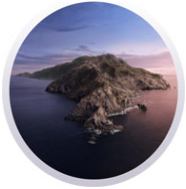
Software Updates

Using USB connection directly connected to Mac or Windows computers. Includes ATEM Setup Utility

Configuration

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

Operating Systems



Mac 10.14 Mojave,
Mac 10.15 Catalina or later.



Windows 8.1 or Windows 10.

Power Requirements

Power Supply

1 x internal 100 – 240V AC

Power Usage

40W

Physical Specifications



Environmental Specifications

Operating Temperature:

5° C to 40° C (41° - 104°F)

Storage Temperature:

-10° to 60° C (14° to 140° F)

Relative Humidity:

0% to 90% non-condensing

What's Included

ATEM Television Studio HD

SD card with software and manual

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.

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