

# ATEM Production Studio 4K



ATEM Production Studio 4K lets you connect up to 8 SD, HD or Ultra HD 4K video cameras, disk recorders and computers to do true broadcast quality work. You get all the features you expect from a professional switcher including chroma key, transitions, media pool, downstream keyers, audio mixer, multi view and the world's first 6G-SDI and HDMI 4K video connections.

## Connections

### Total Video Inputs

8

### Total Video Outputs

6

### SDI Rates

270Mb, 1.5G, 3G, 6G.

### Total Audio Inputs

2 x XLR. 2 x RCA.

### Total Audio Outputs

2 x XLR Program.

### Timecode Connections

None

### SDI Video Input

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

### HDMI Video Input

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

### SDI Audio Output

2 channel embedded into SDI output.

### Reference Input

Tri-Sync or Black Burst.

### Video Input Re-Sync

On all 8 inputs.

### SDI Program Output

1 x 10-bit SD/HD/Ultra HD 4K switchable.

### HDMI Program Output

1 x HDMI type A, 10-bit SD/HD/Ultra HD 4K switchable.

### Down Converted SDI

#### Program Output

1 x 10-bit HD (Ultra HD 4K to HD).

#### SDI Aux. Output

1

### Quantity of Multi Views

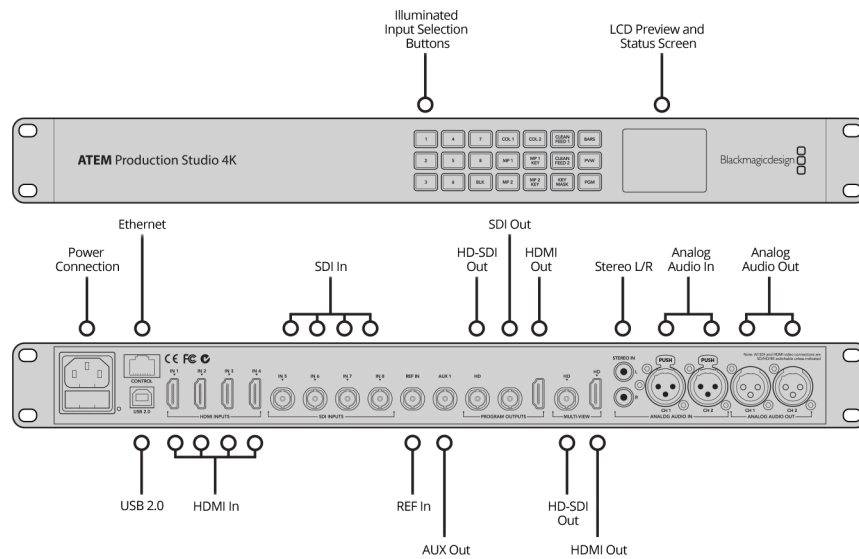
1

### 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

525i59.94 NTSC, 625i50 PAL

### HD Format Support

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

### Ultra HD Format Support

2160p23.98, 2160p24, 2160p25,  
2160p29.97

### SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE 424M.

### Video Sampling

4:2:2

### Color Precision

10-bit

### Color Space

REC 601, REC 709

### HDMI Input Resolutions for Computers

720 x 480i 59.97Hz, 720 x 576i 50Hz,  
1280 x 720 59.94Hz, 1280 x 720 50Hz  
and 1920 x 1080 59.94Hz,  
1920 x 1080 50Hz,  
3840 x 2160 23.98Hz,  
3840 x 2160 24Hz, 3840 x 2160 25Hz,  
3840 x 2160 29.97Hz.

### Colorspace Conversion

Hardware based real time.

### Processing Delay

1 Line.

### Audio Mixer

10 input x 2 channel mixer. Selectable On/Off/Audio-Follow-Video. Level and Peak metering. Master gain control. Analog outputs may be used for separate monitoring.

### 4K to HD Down Conversion

Yes, program x 1.

## Product Specifics

### Upstream Keyers

1

### Downstream Keyers

2

### Chroma Keyers

1

### Pattern Generators

3

### Color Generators

2

### DVE with 3D Borders & Drop Shadow

None

### Routable Windows

8

### Tally

Red for program and green for preview indication.

### Windows Source Labels

Yes

---

**Linear/Luma Keyers**

3

**Transition Keyer (Stinger/DVE)**

None

**Total Number of Layers**

4

**Display interface**

Minimum monitor resolution of 1366 x 768.

**Number of Windows**

1 x 10

**Control Panel**

Software or optional hardware panel.

---

**Media Player****Media Players**

2

**Media Player Clip Length in 1080 HD**

None

**Media Pool Video File Format**

None.

**Media Pool Still Image Capacity**

20 with fill and key.

**Media Player Clip Length in Ultra HD**

None

**Media Pool Audio File Format**

None.

**Media Pool Clip Capacity**

None

**Media Pool Still Image Format**

PNG, TGA, BMP, GIF, JPEG and TIFF.

**Channels**

Fill and key for each Media Player.

**Media Player Clip Length in 720 HD**

None

---

**Multi View Monitoring****Multi View Monitoring**

1 x 10 Views.

**Multi View Video Standard**

HD.

---

**Display****Interface**

Minimum monitor resolution of 1366 x 768.

**Front Panel**

Built in LCD monitor for video and 42 LED buttons for Aux switching.

---

**Software****Control Panel Included**

ATEM Software Control Panel included free for Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later and Windows 8.1 64-bit or Windows 10 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.

**Tally Output**

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

---

## Operating Systems



Mac OS X 10.10 Yosemite,  
Mac OS X 10.11 El Capitan  
or later.



Windows 8.1 64-bit or  
Windows 10 64-bit.

---

## Power Requirements

### Power Supply

1 x Internal 110 - 240V AC.

### Power Usage

60W

---

## Physical Specifications



---

## Environmental Specifications

### Operating Temperature

0° to 40° C (32° to 104° F)

### Storage Temperature

-20° to 60° C (-4° to 140° F)

### Relative Humidity

0% to 95% non-condensing

---

## What's Included

ATEM Production Studio 4K

SD card with software and manual

---

## Warranty

12 Month 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](http://www.blackmagicdesign.com)

---

All items on this website are copyright Blackmagic Design Pty. Ltd. 2017, all rights reserved.  
All trademarks are property of their respective owners. MSRP excludes sales taxes/duties and shipping costs.

Blackmagic Design Authorized Reseller