

ATEM Production Studio 4K

Technical Specifications

Description

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 Input

8

Total Video Output

6

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.

Analog Audio Output

2 x XLR.

SDI Audio Output

2 channel embedded into SDI output.

Audio Input

2 x XLR. 2 x RCA.

Sync Input

Tri-Sync or Black burst.

Internal Frame Synchronizers

8. All 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

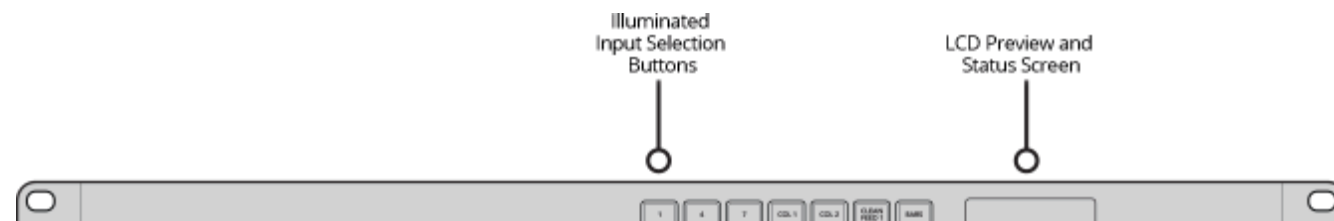
1

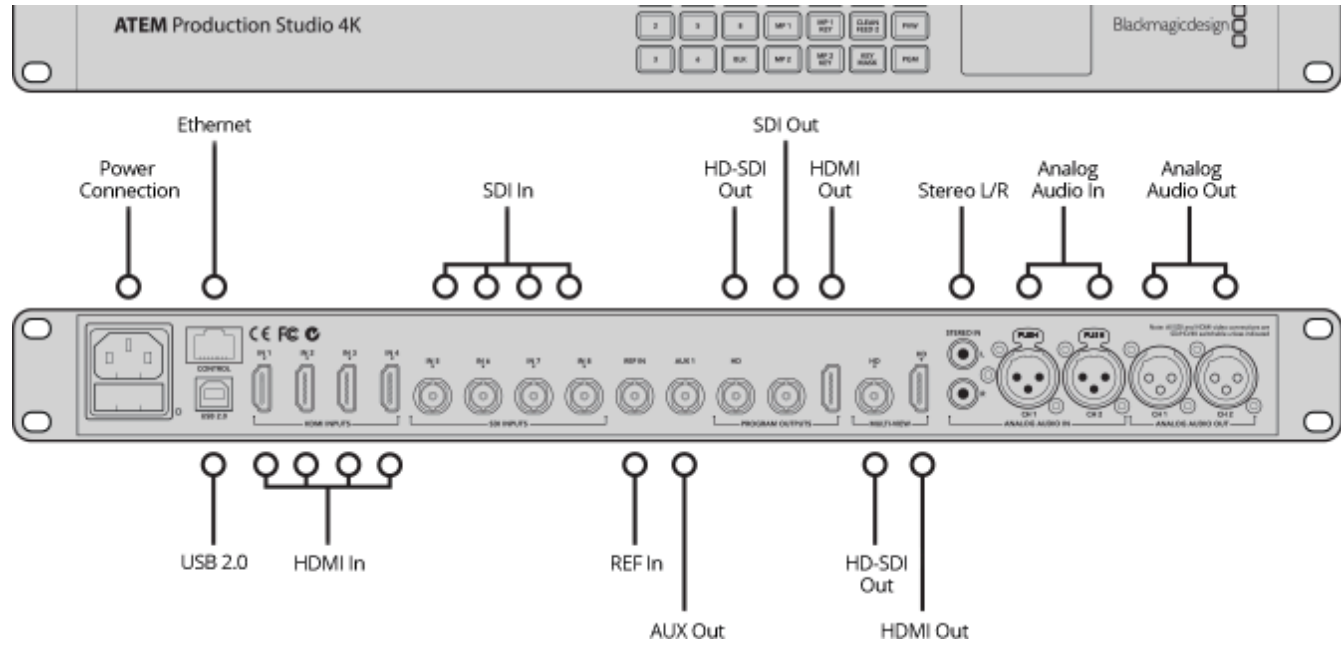
Outputs per Multi View

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.





Video Standards

SD Format Support

625/25 PAL 4:3 and 16:9,
525/29.97 NTSC 4:3 and 16:9

HD Format Support

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

Ultra HD 4K Format Support

3840 x 2160p23.98, 3840 x 2160p24,
3840 x 2160p25, 3840 x 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.

Software

Control Panel Included

ATEM Software Control Panel
included free.

Tally Output

Added via Ethernet connection to
Blackmagic Design 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.

Operating Systems



Mac OS X 10.9 Mavericks,
Mac OS X 10.10 Yosemite or later.



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

Product Specifics

Total Number of Layers

4

Upstream Keyers

1

Downstream Keyers

2

Linear/Luma Keyers

3

Chroma Keyers

1

Pattern Generators

2

Color Generators

2

Display 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

8

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.

Power Requirements

Input Voltage

110-240 V AC

Power Usage

60W

Physical Specifications



1.73 in





5.79 in



3.75 lb

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
Software CD