

## ATEM 1 M/E Production Studio 4K



The advanced ATEM 1 M/E Production Studio 4K model switches between SD, HD or Ultra HD video standards so you can connect a wide range of video sources such as cameras, disk recorders and computers. Featuring 10 inputs, chroma keys, transitions, media pool, 4 upstream keyers, downstream keyers, audio mixer, multi view, full motion DVE, stinger transitions, large media pool with full motion clips and 3 auxiliary outputs!

**\$2,495**

### Connections

#### Total Video Input

10

#### Total Video Output

8

#### SDI Video Input

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

#### HDMI Video Input

1 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 Ch embedded into SDI output on all outputs.

#### Audio Input

2 x XLR. 2 x RCA.

#### Sync Input

Tri-Sync or Black burst.

#### Internal Frame Synchronizers

10. All inputs.

#### SDI Program Output

2 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 (Ultra HD 4K to HD)

#### SDI Preview Output

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

#### SDI Aux. Output

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

#### Quantity of Multi Views

2

#### Multi View Outputs

1 x SDI and 1 x HDMI.

#### Control Panel Connection

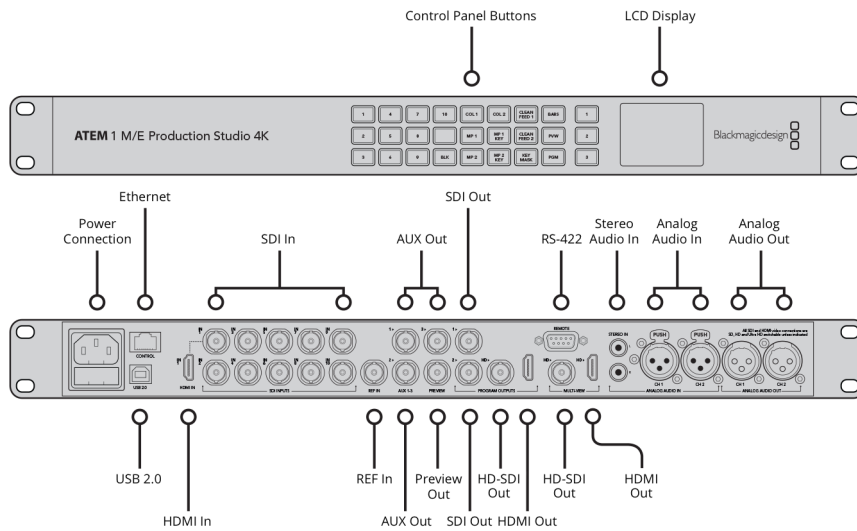
Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network.

#### Tally Output

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

#### Computer Interface

1 x USB 2.0 port.



## Standards

### SD Format Support

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

### HD Format Support

720p50, 59.94  
1080p23.98, 24, 25, 29.97, 50, 59.94  
1080i50, 59.94

### Ultra HD Format Support

2160p23.98, 24, 25, 29.97

### SDI Compliance

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

### Video Sampling

4:2:2.

### Color Precision

10-bit

### Color Space

REC 601, REC 709, REC 2020.

### HDMI Input Resolutions

#### for Computers

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

## 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 2.0 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.

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## Processing

### Colorspace Conversion

Hardware based real time.

### Processing Delay

< 2 Lines.

### Audio Mixer

12 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.

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## 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.

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## Product Specifics

### Total Number of Layers

8

### Chroma Keyers

4

### DVE with 3D Borders & Drop Shadow

1

### Upstream Keyers

4

### Pattern Generators

7

### Control Panel Compatibility

ATEM 1 M/E Broadcast Panel preferred. Compatible with ATEM 2 M/E Broadcast Panel. Includes ATEM Software Control Panel.

### Downstream Keyers

2

### Color Generators

2

### Linear/Luma Keyers

7

### Transition Keyer (Stinger/DVE)

1 and 1

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## Display

### Interface

Minimum monitor resolution of 1366 x 768.

### Front panel

Built in LCD monitor for video and 27 LED buttons for Aux switching.

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## Media Player

### Media Players

2

### Maximum Clip Length in

#### Ultra HD 4K

180 frames

### Maximum Clip Length in NTSC/PAL

3600 frames.

### Channels

Fill and key for each Media Player.

### Maximum Clip Length in 1080

720 frames.

### Media Pool Still Image Format

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

### Media Pool Still Image Capacity

32 with fill and key.

### Maximum Clip Length in 720p

1600 frames.

### Media Pool Video File Format

TGA Sequence.

### Media Pool Clip Capacity

2 with fill and key.

### Media Pool Audio File Format

WAV, MP3 and AIFF.

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## Multi View Monitoring

### Number of Windows

1 x 10

### Tally

Red for program and green for preview indication.

### Windows Source Labels

Yes

### Routable Windows

8

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## Physical Installation

### Physical Installation

1 Rack Unit Size.

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## Power Requirements

### Power Usage

100 W

### Power Supply

1 x built in international AC power supply. 110-240V AC.

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## 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 90% non-condensing

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## What's Included

ATEM 1 M/E Production Studio 4K

SD card with software and manual

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## Warranty

12 month Limited Manufacturer's Warranty.

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