

# 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 Inputs

11 with 10 active.

### Total Video Outputs

10

### Total Aux Outputs

3

### 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

### Reference Input

Tri-Sync or Black Burst.

### Video Input Re-Sync

On all 10 inputs.

### SDI Video Inputs

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 Outputs

2 x XLR.

### SDI Audio Outputs

2 Ch embedded into SDI output on all outputs.

### SDI Program Outputs

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

### HDMI Program Outputs

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.

### Total Multi Views

1

### SDI Multi View Outputs

1

### HDMI Multi View Outputs

1

### Control Panel Connection

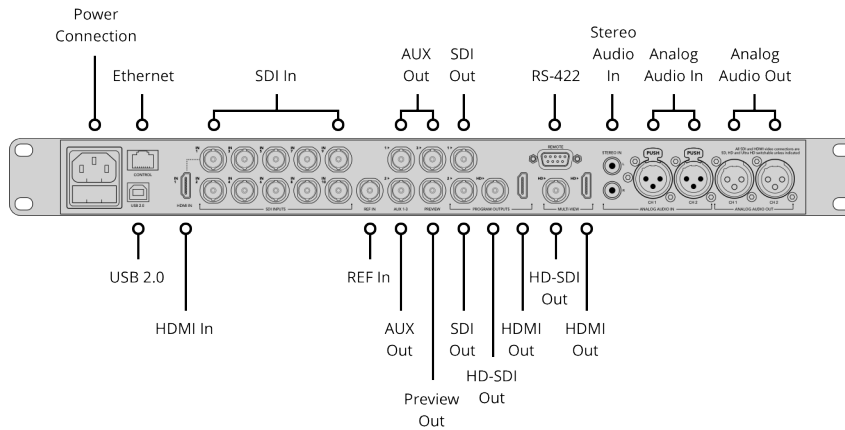
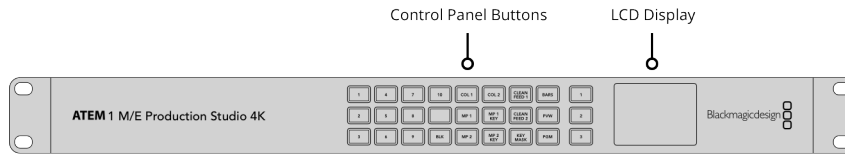
Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network.

### 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 Video Standards

525i59.94 NTSC, 625i50 PAL.

### HD Video Standards

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

### Ultra HD Video Standards

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, 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.

## Product Specifics

### Upstream Keys

4 with Chroma/Linear/Luma key.

### Downstream Keys

2

### Talkback Support

None

### Mix Minus Support

None

### Chroma Keys

4

### Linear/Luma Keys

7

### Transition Keyer (Stinger/DVE)

1 Stinger, 1 DVE.

### Total Number of Layers

8

### Pattern Generators

7

### Color Generators

2

### DVE with 3D Borders &

Drop Shadow

1

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## Control Panel Compatibility

ATEM 1 M/E Broadcast Panel preferred. Compatible with ATEM 1 M/E Advanced Panel, ATEM 2 M/E Advanced Panel and ATEM 4 M/E Advanced Panel. Includes ATEM Software Control Panel.

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## Media Player

### Media Players

2

### Media Player Clip Length in 720 HD

1600 frames.

### Maximum Clip Length in NTSC/PAL

3600 frames.

### Channels

Channels

### Media Player Clip Length in 1080 HD

720 frames.

### Media Pool Still Image Format

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

### Media Pool Still Image Capacity

32 with fill and key.

### Media Player Clip Length in

#### Ultra HD

180 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

### Multi View Monitoring

1 x 10 views.

### Tally

Red for program and green for preview indication.

### Windows Source Labels

Yes

### Routable Windows

8

### Multi View Video Standard

HD

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## Display

### Interface

Minimum monitor resolution of 1366 x 768.

### Front Panel

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

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## Processing

### Colorspace Conversion

Hardware based real time.

### 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.

### Processing Delay

< 2 Lines.

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## Software

### Control Panel Included

ATEM Software Control Panel included free for Mac 10.12 Sierra, Mac 10.13 High Sierra or later and Windows 8.1 64-bit or Windows 10 64-bit.

### Software Updates

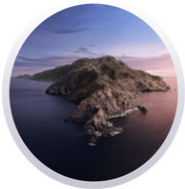
Using USB 2.0 connection directly connected to Mac OS or Windows computers. Includes ATEM Setup Utility

### 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.

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## Operating Systems



Mac 10.14 Mojave,  
Mac 10.15 Catalina or later.



Windows 8.1 and 10.

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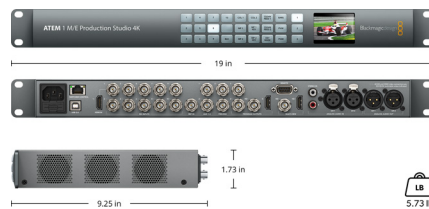
## Power Requirements

### Power Supply

1 x Internal 100 - 240V AC.

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## Physical Specifications



## Physical Installation

### Physical Installation

1 Rack Unit Size.

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## 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

AEM 1 M/E Production Studio 4K  
Welcome wallet with QR code for software download

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## Warranty

12 month Limited Manufacturer's Warranty.

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