

ATEM 2 M/E Production Studio 4K



The new ATEM 2 M/E Production Studio 4K lets you produce broadcast quality live multi camera production in SD, HD or amazing Ultra HD ! Featuring 20 inputs with built in re-synchronizers so you can connect the widest range of video sources such as cameras, disk recorders and computers for incredible live music, sport and more! ATEM 2 M/E Production Studio 4K has advanced broadcast features such as chroma key, customizable transitions, upstream and downstream keyers, DVE, Super Source, audio mixer, 2 x multi views, media pool and more! You also get 6G-SDI and HDMI 4K connections and 6 auxiliary outputs for the most advanced live production switching!

\$3,995

Connections

Total Video Input

20

Total Video Output

13

SDI Video Input

20 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 Program 2 x XLR Monitor

Extra Audio Outputs

1 x XLR Timecode and 1 x XLR Talkback

SDI Audio Output

2 Ch embedded into SDI output on all outputs.

Audio Input

2 x XLR. 2 x RCA.

Extra Audio Inputs

1 x XLR Timecode and 1 x XLR Talkback

Sync Input

Tri-Sync or Black burst.

Internal Frame Synchronizers

20. All inputs

SDI Program Output

3 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

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

Quantity of Multi Views

2 x SDI plus 2 x HDMI, able to be used concurrently.

Multi View Outputs

2 x SDI and 2 x HDMI.

Control Panel Connection

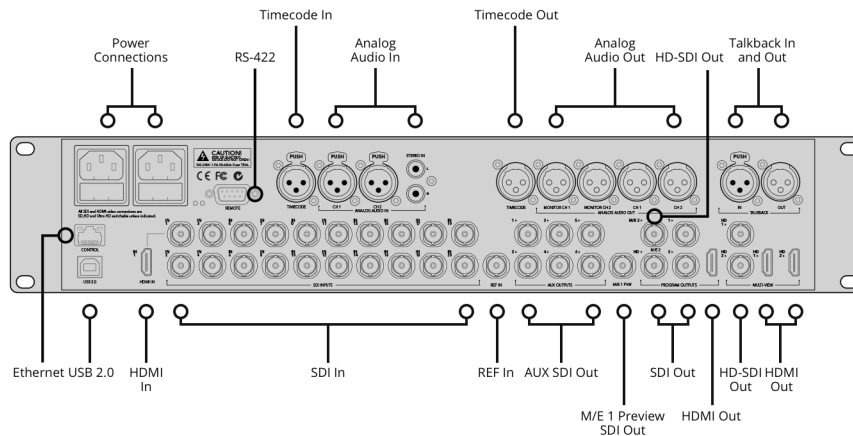
Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network.

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.

Note: Also supported are; 24, 30 and 60 Hz inputs when switcher is in 23.98, 29.97 and 59.94 Hz formats respectively.

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.

Processing

Colorspace Conversion

Hardware based real time.

Processing Delay

< 2 Lines

4K to HD Down Conversion

Yes, program x 1

Audio Mixer

22 input x 2 channel mixer.
Selectable On/Off/Audio-Follow-Video.
Level and Peak metering.
Master gain control.
Dedicated analog outputs
for monitoring.

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.

Product Specifics

Total Number of Layers

13

Chroma Keys

4

DVE with 3D Borders & Drop Shadow

Yes, program x 1.

Upstream Keys

4

Pattern Generators

7

Control Panel Compatibility

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

Downstream Keys

2

Color Generators

2

Linear/Luma Keys

7

Transition Keyer (Stinger/DVE)

1 and 1

Display

Interface

Minimum monitor resolution of
1366 x 768.

Front Panel

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

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.

Multi View Monitoring

Number of Windows

2 x 10

Tally

Red for program and green for preview indication.

Windows Source Labels

Yes

Routable Windows

16

Physical Installation

Physical Installation

2 Rack Unit Size.

Power Requirements

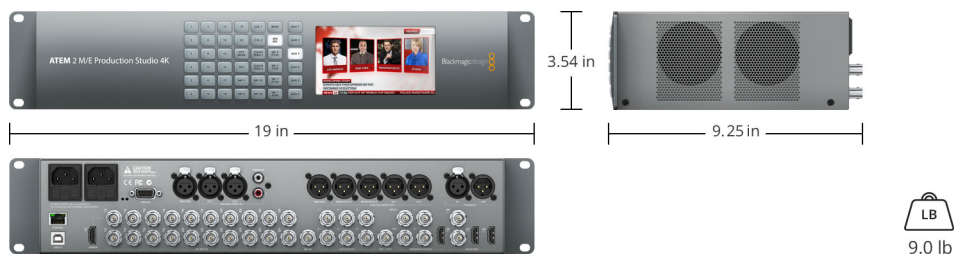
Power usage

150W

Power Supply

2 x built in international AC power supply. 100-240V AC

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

What's Included

ATEM 2 M/E Production Studio 4K
SD card with software and manual

Warranty

12 Month Limited Manufacturer's Warranty.

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