

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!

Connections

Total Video Inputs

21 with 20 active

Total Video Outputs

16

Total Aux 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 2 x XLR Monitor.

Timecode Connections

1 x XLR in and 1 x XLR out.

Reference Input

Tri-Sync or Black Burst.

Video Input Re-Sync

On all 20 inputs.

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.

SDI Audio Output

2 Ch embedded into SDI output on all outputs.

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.

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

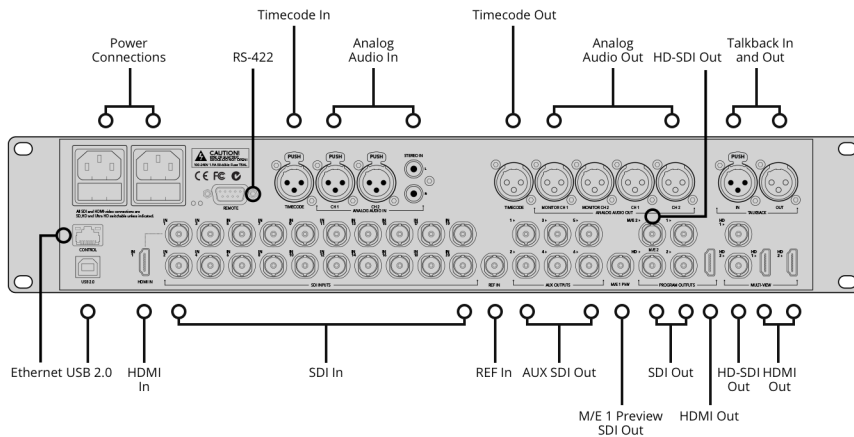
Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network.

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

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, 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.

Product Specifics

Upstream Keys

4

Transition Keyer (Stinger/DVE)

1 and 1

DVE with 3D Borders & Drop Shadow

1

Downstream Keys

2

Total Number of Layers

13

Control Panel

Software or optional hardware panel

Chroma Keys

4

Pattern Generators

8

Linear/Luma Keys

7

Color Generators

2

Media Player

Media Players

2

Channels

Fill and key for each Media Player.

Media Pool Still Image Capacity

32 with fill and key

Media Pool Clip Capacity

2 with fill and key.

Media Player Clip Length in Ultra HD 4K

180 frames

Media Player Clip Length in 1080

720 frames

Media Player Clip Length in 720p

1600 frames

Media Player Clip Length in NTSC/PAL

3600 frames.

Media Pool Still Image Format

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

Media Pool Video File Format

TGA Sequence.

Media Pool Audio File Format

WAV, MP3 and AIFF.

Multi View Monitoring

Multi View Monitoring

2 x 10 Views for 20 total views.

Multi View Video Standard

HD.

Routable Windows

16

Tally

Red for program and green for preview indication.

Windows Source Labels

Yes

Display

Interface

Minimum monitor resolution of 1366 x 768.

Front Panel

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

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.

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.

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

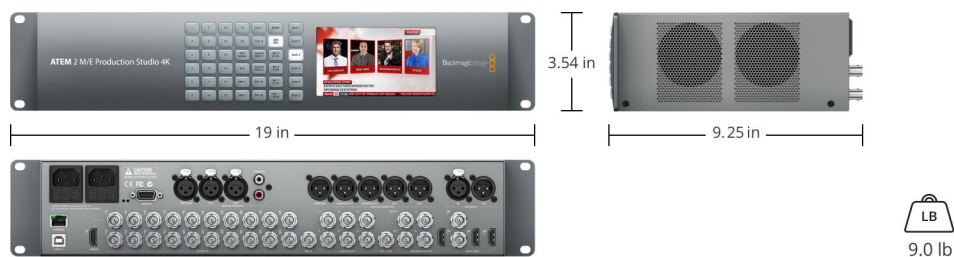
Power Supply

2 x Internal 110 - 240V AC.

Power Usage

150 W

Physical Specifications



Physical Installation

Physical Installation

2 Rack Unit Size.

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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