

ATEM 2 M/E Broadcast Studio 4K



Advanced technology high frame rate Ultra HD live production switcher includes 20 x 12G-SDI re-synchronized inputs for all formats from 720p, 1080i, 1080p up to 2160p60. Includes large media memory, 4 media players, 2 Ultra HD resolution multi viewers, DVE, SuperSource, 6 keyers, audio mixer, 6 aux outputs, built in camera control and included software control panel. Supports optional Blackmagic hardware control panels. ATEM 2 M/E Broadcast Studio 4K is perfect for fast action live sports coverage because it can handle high frame rates in both HD and Ultra HD and all connections support 12G-SDI for advanced SDI but with the full compatibility to plug into all your HD-SDI, 3G-SDI and 6G-SDI equipment.

\$5,995

Connections

Total Video Inputs

20

Total Video Outputs

13

Total Aux Outputs

6

SDI Rates

1.5G, 3G, 6G, 12G

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 Timecode in and 1 x XLR Timecode out.

Reference Input

Tri-Sync or Black Burst.

Video Input Re-sync

On all 20 inputs.

SDI Video Input

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

Extra Audio Outputs

1 x XLR Timecode and 1 x XLR Talkback.

SDI Audio Output

2 Ch embedded into SDI output on all outputs.

Extra Audio Inputs

1 x XLR Timecode and 1 x XLR Talkback.

SDI Program Output

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

Down Converted SDI Program Output

1 x 10-bit (From Ultra HD 4K to HD).

SDI Preview Output

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

SDI Aux. Output

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

Quantity of Multi Views

2 x SDI

Multi View Outputs

2 x SDI

Control Panel Connection

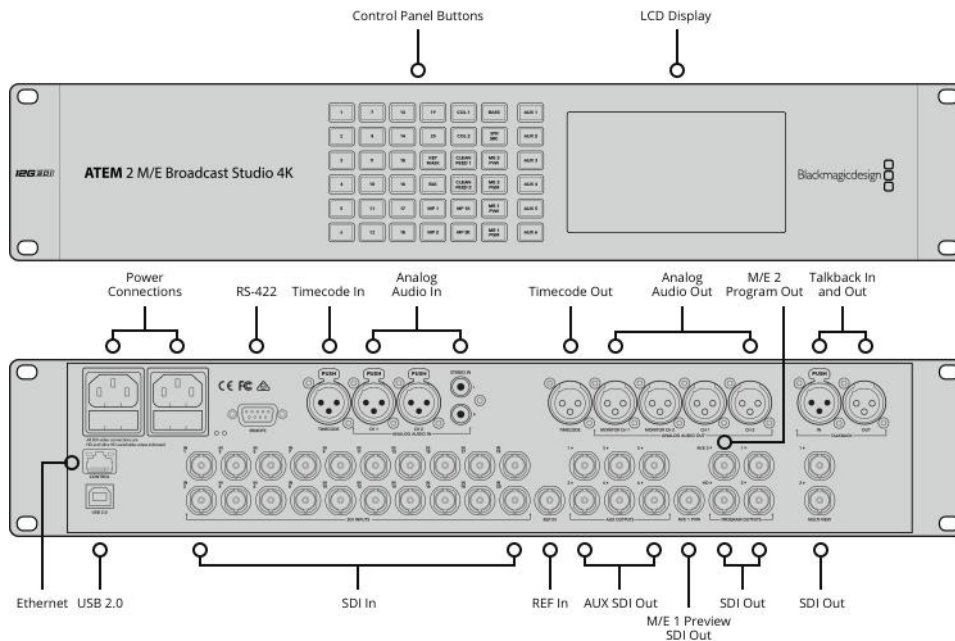
Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network.

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

None.

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, 2160p50, 2160p59.94

SDI Compliance

SMPTE 292M, SMPTE 424M

Video Sampling

4:2:2

Color Precision

10-bit

Color Space

REC 601, REC 709, REC 2020

Product Specifics

Upstream Keys

4

Downstream Keys

2

Chroma Keys

4

Linear/Luma Keys

7

Transition Keyer (Stinger/DVE)

1 and 1

Total Number of Layers

13

Pattern Generators

7

Color Generators

2

DVE with 3D Borders & Drop Shadow

1

Control Panel

Software or optional hardware panel.

Routable Windows

16

Tally

Red for program and green for
preview indication.

Windows Source Labels

Yes

Multi View Monitoring

Multi View Monitoring

2 x 10 Views for 20 total views.

Multi View Video Standard

Select HD or Ultra HD

Media Player

Media Players

4

Media Player Clip Length in 720 HD

3200 frames.

Media Pool Still Image Format

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

Media Pool Still Image Capacity

64 with fill and key.

Media Player Clip Length in 1080 HD

1440 frames.

Media Pool Video File Format

TGA Sequence.

Media Pool Clip Capacity

2 with fill and key.

Media Player Clip Length in Ultra HD

360 frames.

Media Pool Audio File Format

WAV, MP3 and AIFF.

Display

Interface

Minimum monitor resolution of 1366 x 768.

Front panel

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

Processing

Processing Delay

< 2 Lines

Audio Mixer

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

4K to HD Down Conversion

Yes, program x 1.

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 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.

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

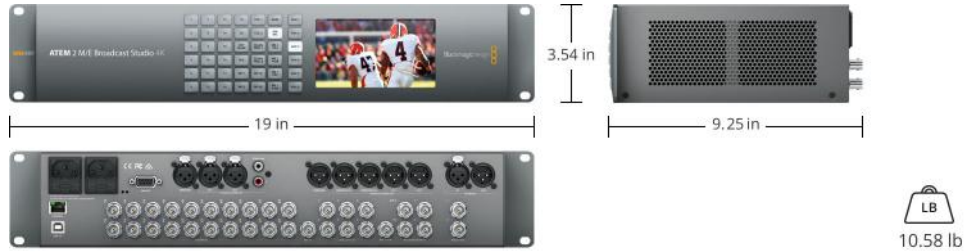
Power Supply

2 x Internal 110 - 240 AC.

Power Usage

300W

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 Broadcast Studio 4K
SD card with software and manual

Warranty

12 Month Limited Manufacturer's Warranty.

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