

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 Input

20

Total Video Output

13

SDI Video Input

20 x 10-bit 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

Internal Frame Synchronizers

20. All inputs

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

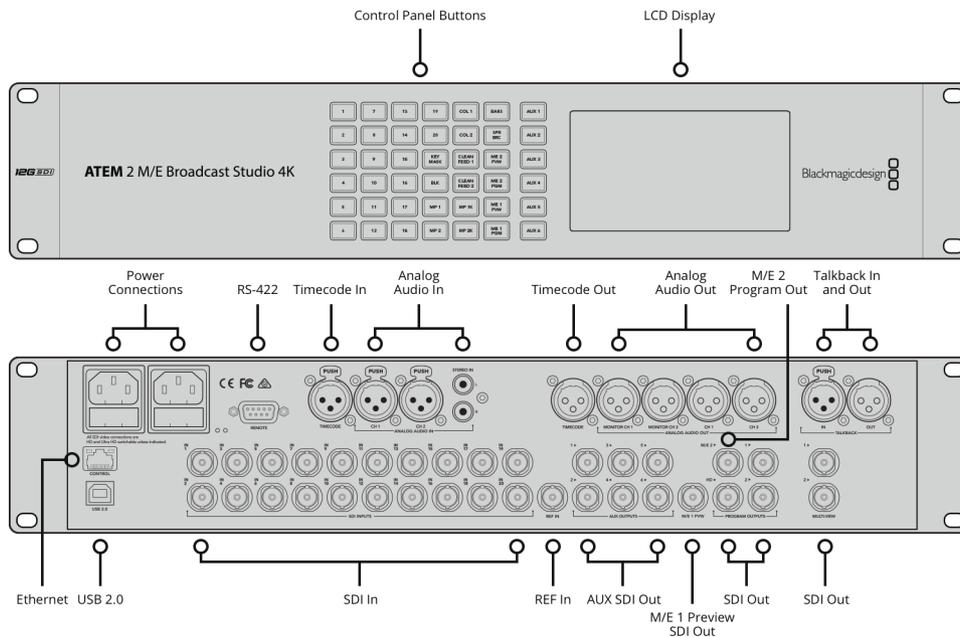
Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network.

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

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, 50, 59.94

SDI Compliance

SMPTE 292M, SMPTE 424M

Video Sampling

4:2:2

Color Precision

10-bit

Color Space

REC 601, REC 709, REC 2020

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.

Processing

Processing Delay

< 2 Lines

4K to HD Down Conversion

Yes, program x 1

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.

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

14

Chroma Keys

4

DVE with 3D Borders & Drop Shadow

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

Media Player

Media Players

4

Maximum Clip Length in

Ultra HD 4K

360 frames

Media Pool Still Image Format

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

Channels

Fill and key for each Media Player.

Maximum Clip Length in 1080

1440 frames

Media Pool Video File Format

TGA Sequence.

Media Pool Still Image Capacity

32 with fill and key

Maximum Clip Length in 720p

3200 frames

Media Pool Audio File Format

WAV, MP3 and AIFF.

Media Pool Clip Capacity

2 with fill and key.

Multi View Monitoring

Number of Windows

20

Tally

Red for program and green for preview indication.

Windows Source Labels

Yes

Rotatable Windows

16

Power Requirements

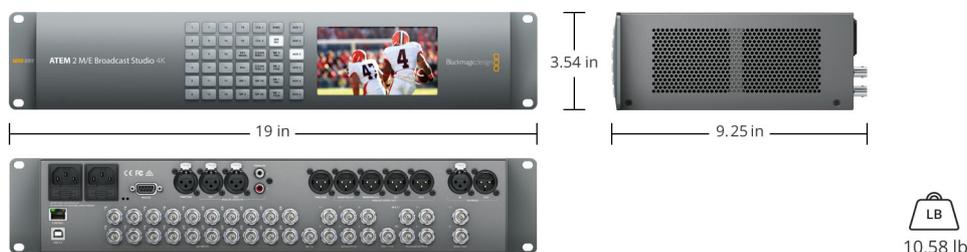
Power usage

300W

Power Supply

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

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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