Blackmagicdesign

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

HDMI Video Inputs
1 x HDMI type A. 10-bit SD/HD/Ultra HD 4K switchable. 2 channel embedded audio.

SDI Audio Outputs
2 Ch embedded into SDI output on all outputs.

SDI Program Outputs
3 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 Outputs
1 x 10-bit (Ultra HD 4K to HD).

SDI Preview Outputs
1 x 10-bit SD/HD/Ultra HD 4K switchable.

Total Multi Views
2

SDI Multi View Outputs
2

HDMI Multi View Outputs
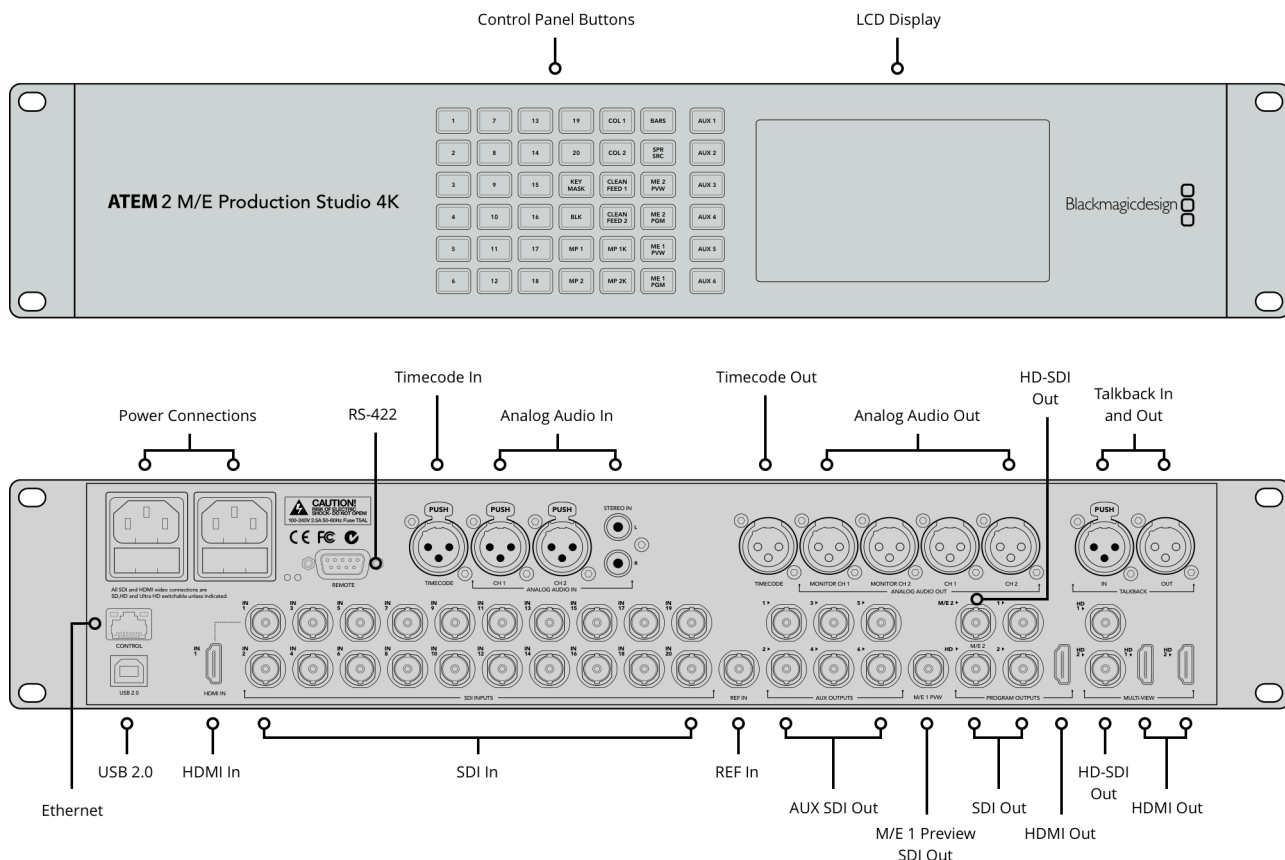2

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.

Control Panel Buttons

LCD Display

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Power Connections **RS-422** **Timecode In** **Analog Audio In** **Timecode Out** **Analog Audio Out** **HD-SDI Out** **Talkback In and Out**

USB 2.0 HDMI In SDI In REF In AUX SDI Out SDI Out HD-SDI Out HDMI Out

Ethernet M/E 1 Preview SDI Out HDMI Out HDMI Out

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.
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 Keyers
4 with Chroma/Linear/Luma key.

Downstream Keyers
2

Chroma Keyers
4

Talkback Support
None

Mix Minus Support
None

Linear/Luma Keyers
7

Transition Keyer (Stinger/DVE)	Pattern Generators	Drop Shadow
1 Stinger, 1 DVE.	8	1
Total Number of Layers	**Color Generators**	**Control Panel**
13	2	Software or optional hardware panel
	DVE with 3D Borders &	

media-player

media-players	media-player Clip Length in NTSC/ PAL	4K
2	3600 frames.	180 framess
Channels		**Media Pool Still Image Format**
Fill and key for each media-player.	**media-player Clip Length in 720p**	PNG, TGA, BMP, GIF, JPEG and TIFF.
Media Pool Still Image Capacity	1600 framess	**Media Pool Video File Format**
32 with fill and key	**media-player Clip Length in 1080**	TGA Sequence.
Media Pool Clip Capacity	720 framess	**Media Pool Audio File Format**
2 with fill and key.	**media-player Clip Length in Ultra HD**	WAV, MP3 and AIFF.

Multi View Monitoring

Multi View Monitoring	Routable Windows	Windows Source Labels
2 x 10 Views for 20 total views.	16	Yes
Multi View Video Standard	**Tally**	
HD.	Red for program and green for preview indication.	

Display

Interface	Front Panel
Minimum monitor resolution of *1366 x 768.*	Built in LCD monitor for video and 42 LED buttons for Aux switching.

Processing

Colorspace Conversion	Audio Mixer
Hardware based real time.	22 input x 2 channel mixer. Selectable On/Off/Audio-Follow-Video.
Processing Delay	Level and Peak metering.
< 2 Lines	Master gain control. Dedicated analog outputs
4K to HD Down Conversion	for monitoring.
Yes, program x 1	

Software

Control Panel Included
ATEM Software Control Panel included free for macOS 10.12 Sierra, macOS High Sierra 10.13 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 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

macOS 10.12 Sierra,
macOS High Sierra 10.13 or later.

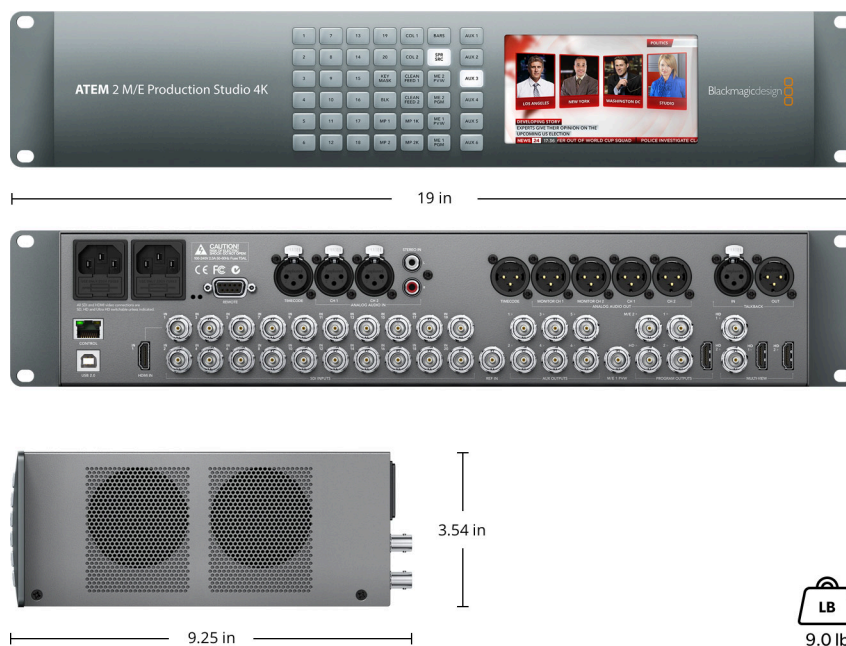Windows 8.1 or
Windows 10.

Power Requirements

Power Supply
2 x Internal 110 - 240V AC.

Power Usage
150 W

Physical Specifications

19 in

3.54 in

9.25 in

9.0 lb

Physical Installation

Physical Installation
2 Rack Unit Size.

Environmental Specifications

Operating temperature	Storage temperature	Relative Humidity
0° to 40° C (32° to 104° F)	-20° to 60° C (-4° to 140° F)	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.

Blackmagic Design Authorized Reseller