Blackmagicdesign

ATEM 4 M/E Broadcast Studio 4K

Get one of the world's most compact and advanced switchers with the new ATEM 4 M/E Broadcast Studio 4K. You get an incredibly high performance live production switcher designed to work with the latest formats and high frame rates, all the way up to Ultra HD 2160p59.94! You get 16 next generation ATEM Advanced Chroma Keyers with 4 per M/E, perfect for advanced work and virtual sets. As the most advanced ATEM switcher, this model also includes the latest technology and features such as 2 Ultra HD multi viewers, full 2D DVE, built in SuperSource compositing engine with 4 picture in picture DVE's, full re-synchronization on each 12G-SDI input and much more! The multi rate 12G-SDI connections automatically switch between all HD and Ultra HD formats up to 2160p59.94 with a single BNC cable! Even if you're not working in Ultra HD now, the ATEM 4 M/E Broadcast Studio 4K has all the power and features for the highest end live production work, while being Ultra HD ready the instant you need it!

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

Extra Audio Inputs
1 x XLR Timecode and 1 x XLR Talkback.

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

Total Multi Views
2

SDI 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.
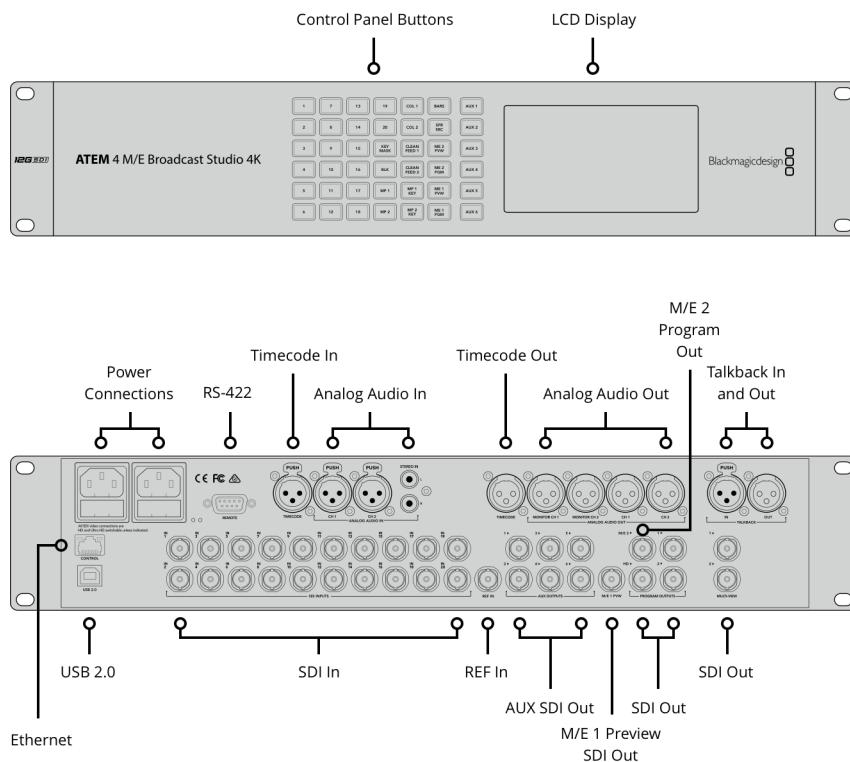
Standards

SD Video Standards

None.

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, 2160p50, 2160p59.94

SDI Compliance

SMPTE 292M, SMPTE 424M, SMPTE 2082.

Video Sampling

4:2:2

Color Precision

10-bit.

Color Space

REC 601, REC 709, REC 2020.

Product Specifics

Upstream Keyers

16 with Chroma/Linear/Luma key.

Downstream Keyers

2

Chroma Keyers

16

Talkback Support

None

Mix Minus Support

None

Linear/Luma Keyers

19

Transition Keyer (Stinger/DVE)

1 Stinger, 1DVE .

Total Number of Layers

26

Pattern Generators

19

Color Generators	Control Panel	Tally
2	Software or optional hardware panel.	Red for program and green for preview indication.
DVE with 3D Borders & Drop Shadow	**Routable Windows**	**Windows Source Labels**
1	16	Yes

Multi View Monitoring

Multi View Monitoring	Multi View Video Standard
2 x 10 Views for 20 total views.	Select HD or Ultra HD.

Media Player

Media Players	Media Player Clip Length in 720 HD	Media Pool Still Image Format
4	3200 frames.	PNG, TGA, BMP, GIF, JPEG and TIFF.
Media Pool Still Image Capacity	**Media Player Clip Length in 1080 HD**	**Media Pool Video File Format**
64 with fill and key.	1440 frames.	TGA Sequence.
Media Pool Clip Capacity	**Media Player Clip Length in Ultra HD**	**Media Pool Audio File Format**
2 with fill and key.	360 frames.	WAV, MP3 and AIFF.

Display

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

Processing

Processing Delay	Selectable On/Off/Audio-Follow-Video.	Dedicated analog outputs for monitoring.
< 7 Lines		
Audio Mixer	Level and Peak metering.	**4K to HD Down Conversion**
24 input x 2 channel mixer.	Master gain control.	Yes, program x 1.

Software

Control Panel Included	Software Updates	Configuration
ATEM Software Control Panel included free for Mac 10.12 Sierra, Mac 10.13 High Sierra or later and Windows 8.1 64-bit or Windows 10 64-bit.	Using USB 2.0 connection directly connected to Mac OS or Windows computers. Includes ATEM Setup Utility.	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 10.14 Mojave,
Mac 10.15 Catalina or later.

Windows 8.1 and 10.

Power Requirements

Power Supply
2 x Internal 100 - 240 AC.

Power Usage
300W

Physical Specifications

19 in

3.54 in

9.25 in

10.58 lb
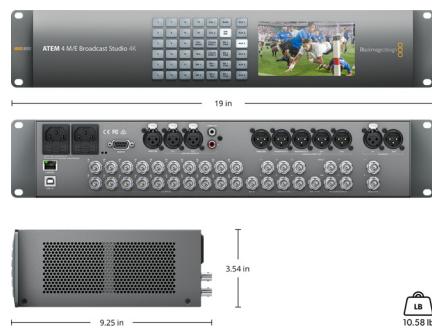
Physical Installation

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 4 M/E Broadcast Studio 4K
SD card with software and manual

Warranty

12 Month Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller