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.
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.

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**Product Specifics**

**Upstream Keyers**
4 with Chroma/Linear/Luma key.

**Chroma Keyers**
4

**Downstream Keyers**
2

**Talkback Support**
None

**Mix Minus Support**
Linear/Luma Keyers
7
### Transition Keyer (Stinger/DVE)
- 1 Stinger, 1 DVE.

### Total Number of Layers
- 13

### Pattern Generators
- 8

### Color Generators
- 2

### DVE with 3D Borders &
- Drop Shadow
  - 1
- Control Panel
  - Software or optional hardware panel

### Media Player

<table>
<thead>
<tr>
<th>Media Player</th>
<th>Media Player Clip Length in NTSC/PAL</th>
<th>4K</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3600 frames.</td>
<td>180 frames</td>
</tr>
<tr>
<td>Channels</td>
<td>1600 frames</td>
<td></td>
</tr>
<tr>
<td>Media Pool Still Image Capacity</td>
<td>1080 frames</td>
<td></td>
</tr>
<tr>
<td>32 with fill and key</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Media Pool Clip Capacity</td>
<td>720 frames</td>
<td></td>
</tr>
<tr>
<td>2 with fill and key.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Multi View Monitoring

<table>
<thead>
<tr>
<th>Multi View Monitoring</th>
<th>Routable Windows</th>
<th>Windows Source Labels</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 10 Views for 20 total views.</td>
<td>16</td>
<td>Yes</td>
</tr>
<tr>
<td>Multi View Video Standard</td>
<td>Tally</td>
<td></td>
</tr>
<tr>
<td>HD.</td>
<td>Red for program and green for preview indication.</td>
<td></td>
</tr>
</tbody>
</table>

### Display

<table>
<thead>
<tr>
<th>Interface</th>
<th>Front Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum monitor resolution of 1366 x 768.</td>
<td>Built in LCD monitor for video and 42 LED buttons for Aux switching.</td>
</tr>
</tbody>
</table>

### Processing

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

**Control Panel Included**
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.

**Software Updates**
Using USB 2.0 connection directly connected to Mac OS 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](image1.png)

Mac 10.14 Mojave, Mac 10.15 Catalina or later.

![Windows](image2.png)

Windows 8.1 or Windows 10.

Power Requirements

**Power Supply**
2 x Internal 100 - 240V AC.

**Power Usage**
150 W

Physical Specifications

![ATEM 2 M/E Production Studio 4K](image3.png)

Physical Installation

**Physical Installation**
2 Rack Unit Size.
Environmental Specifications

<table>
<thead>
<tr>
<th>Operating temperature</th>
<th>Storage temperature</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° to 40° C (32° to 104° F)</td>
<td>-20° to 60° C (-4° to 140° F)</td>
<td>0% to 90% non-condensing</td>
</tr>
</tbody>
</table>

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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