ATEM Production Studio 4K

ATEM Production Studio 4K lets you connect up to 8 SD, HD or Ultra HD 4K video cameras, disk recorders and computers to do true broadcast quality work. You get all the features you expect from a professional switcher including chroma key, transitions, media pool, downstream keyers, audio mixer, multi view and the world’s first 6G-SDI and HDMI 4K video connections.

Connections

**Total Video Inputs**
8

**Total Video 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.

**Timecode Connection**
None

**SDI Video Inputs**
4 x 10-bit SD/HD/ Ultra HD 4K switchable. 2 channel embedded audio.

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

**SDI Audio Outputs**
2 channel embedded into SDI output.

**Reference Input**
Tri-Sync or Black Burst.

**Video Input Re-Sync**
On all 8 inputs.

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

**SDI Program Outputs**
1 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.

**DownConvertedSDI Program Outputs**
1 x 10-bit HD (Ultra HD 4K to HD).

**SDI Aux. Output**
1

**Total Multi Views**
1

**SDI Multi View Outputs**
1

**HDMI Multi View Outputs**
1

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

$1,695
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

**HDMI Input Resolutions for Computers**
720 x 480i 59.97Hz
720 x 576i 50Hz
1280 x 720 59.94Hz, 1920 x 1080 59.94Hz, 1920 x 1080 50Hz
3840 x 2160 23.98Hz, 3840 x 2160 24Hz, 3840 x 2160 25Hz, 3840 x 2160 29.97Hz.

**Colorspace Conversion**
Hardware based real time.

**Processing Delay**
1 Line.

**Audio Mixer**
10 input x 2 channel mixer. Selectable On/Off/Audio-Follow-Video. Level and Peak metering. Master gain control. Analog outputs may be used for separate monitoring.

**4K to HD Down Conversion**
Yes, program x 1.

Product Specifics

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

**Downstream Keyers**
2

**Chroma Keyers**
1

**Talkback Support**
None

**Mix Minus Support**
None

**Linear/Luma Keyers**
3

**Transition Keyer (Stinger/DVE)**
None

**Total Number of Layers**
4

**Pattern Generators**
3
<table>
<thead>
<tr>
<th>Color Generators</th>
<th>Display interface</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Minimum monitor resolution of 1366 x 768.</td>
<td>Red for program and green for preview indication.</td>
</tr>
<tr>
<td>DVE with 3D Borders &amp; Drop Shadow</td>
<td>Number of Windows</td>
<td>Windows Source Labels</td>
</tr>
<tr>
<td>None</td>
<td>1 x 10</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Routable Windows 8</td>
<td>Control Panel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Software or optional hardware panel.</td>
</tr>
</tbody>
</table>

### Media Player

<table>
<thead>
<tr>
<th>Media Players</th>
<th>Media Player Clip Length in 1080 HD</th>
<th>Media Pool Audio File Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>None</td>
<td>None.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Media Pool Still Image Capacity</th>
<th>Media Player Clip Length in Ultra HD</th>
<th>Media Pool Video File Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 with fill and key.</td>
<td>None</td>
<td>None.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Media Pool Clip Capacity</th>
<th>Media Pool Still Image Format</th>
<th>Media Pool Audio File Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>PNG, TGA, BMP, GIF, JPEG and TIFF.</td>
<td>None.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Media Player Clip Length in 720 HD</th>
<th>Media Pool Clip Length in 1080 HD</th>
<th>Media Pool Audio File Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None.</td>
</tr>
</tbody>
</table>

### Multi View Monitoring

<table>
<thead>
<tr>
<th>Multi View Monitoring</th>
<th>Multi View Video Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 10 Views.</td>
<td>HD.</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>

### Software

<table>
<thead>
<tr>
<th>Control Panel Included</th>
<th>Tally Output</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEM Software Control Panel included free for Mac 10.10 Yosemite, Mac 10.11 El Capitan or later and Windows 8.1 64-bit or Windows 10 64-bit.</td>
<td>Added via Ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included.)</td>
<td>Set via ATEM Software Control Panel, excluding ATEM chassis IP address which is set via the ATEM Setup Utility connected via USB to chassis.</td>
</tr>
</tbody>
</table>

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<tr>
<th>Software Updates</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Using USB connection directly connected to Mac or Windows computers. Includes ATEM Setup Utility</td>
<td></td>
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</table>
Operating Systems

Mac 10.14 Mojave, Mac 10.15 Catalina or later.
Windows 8.1 or Windows 10.

Power Requirements

Power Supply
1 x Internal 100 - 240V AC.
Power Usage
60W

Physical Specifications

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 95% non-condensing

What's Included

ATEM Production Studio 4K
SD card with software and manual

Warranty

12 Month Limited Manufacturer's Warranty.
Repair policy
Warranty details can be found in the ATEM Switchers Operation Manual in the support page at www.blackmagicdesign.com