

# ATEM Television Studio Pro 4K



ATEM Television Studio Pro 4K features 8 independent 12G-SDI inputs, for working in all popular HD and Ultra HD formats up to 2160p60. Each input features re-sync as well as a full low latency standards converter, which means the input is automatically adapted to the switchers format. You can even have 8 inputs, all running different video formats! The upgraded Fairlight audio mixer features dynamics, 6 band parametric EQ, dual mono channel split and stereo simulator with audio delay on the analog inputs. ATEM Television Studio Pro 4K also features the ATEM Advanced Chroma Key, Ultra HD multi-view and motion clips in the media pool.

## Connections

**Total Video Inputs**

8

**Total Outputs**

12

**Total Aux Outputs**

1

**SDI Rates**

1.5G, 3G, 6G,12G.

**Total Audio Inputs**

2 x XLR. 1 x Microphone.

**Total Audio Outputs**

1 x Headphone.

**SDI Video Inputs**

8 x 10-bit HD/UHD switchable. 2 channel embedded audio.

**HDMI Video Inputs**

None

**Reference Inputs**

Tri-Sync or Black Burst.

**Video Input Re-Sync**

On all 8 inputs.

**Frame rate and format convertors**

On all 8 inputs.

**SDI Program Outputs**

9 x 10-bit HD/UHD switchable.

**SDI Audio Outputs**

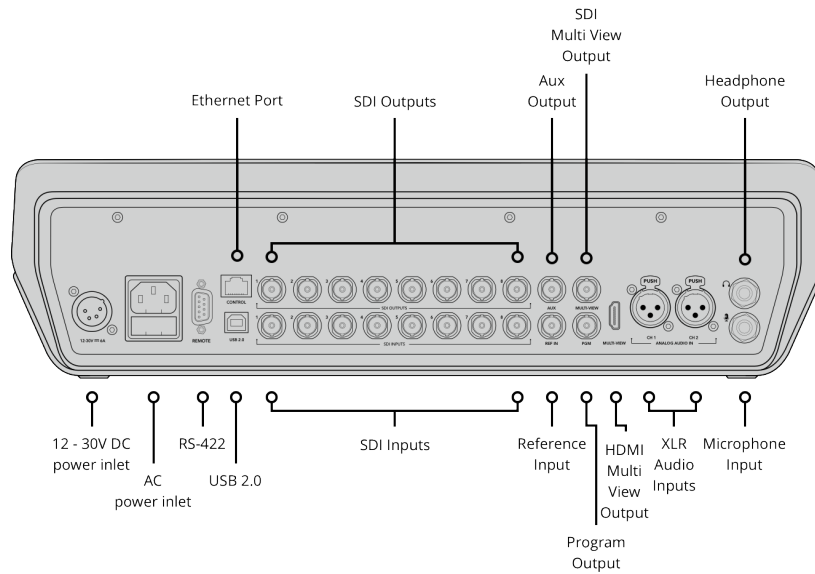
2 Ch embedded into SDI output.

**Multi View Monitoring**

1

**Multi View Video**

1 x SDI and 1 x HDMI.



## 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

292M and 424M, 2081, 2082.

### Video Sampling

4:2:2 10-bit

### Color Precision

4:2:2 10-bit

### Color Space

4:2:2 YUV

### Input Resolutions for Computers

720p50, 720p59.94  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30, 1080p50,  
1080p59.94, 1080p60  
1080i50, 1080i59.94, 2160p23.98,  
2160p24, 2160p25, 2160p29.97,  
2160p30, 2160p50, 2160p59.94,  
2160p60.

### Colorspace Conversion

None

### Processing Delay

6 Lines.

### Audio Mixer

12 input x 2 channel mixer.  
Selectable On/Off/Audio-Follow-Video  
per channel plus separate gain  
control per channel.  
Level and Peak metering. Plus new  
Fairlight audio enhancements:  
Compressor, Gate, Limiter, 6 bands of  
parametric EQ. Delay line and Stereo  
Synthesizer on the XLR inputs only.  
Master gain control. Headphone  
output level control with separate  
mix of Program, Talkback and  
Sidetone.

## Product Specifics

### Upstream Keyers

1 with Chroma/Linear/Luma key.

### Downstream Keyers

2

### Chroma Keyers

1

### Linear/Luma Keyers

3

### Talkback Support

Built in, uses aviation headset.

### Mix Minus Support

Yes, on 8 camera PGM outputs.

### Transition Keyer (Stinger/DVE)

Stinger and DVE.

### Total Number of Layers

5

### Pattern Generators

2

<b>Color Generators</b> 2	<b>Number of Windows</b> 1 x 10	<b>Tally Output</b> Embedded via SDI. Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included)
<b>DVE with 3D Borders &amp; Drop Shadow</b> 1	<b>Routable Windows</b> 8 routable and 2 fixed for Program and Preview.	<b>Windows Source Labels</b> Yes.
<b>Interface</b> Minimum monitor resolution of 1366 x 768.	<b>Tally</b> Red for program and green for preview indication.	

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## Multi View Monitoring

<b>Multi View Monitoring</b> 1 x 10 Views.	<b>Multi View Video Standard</b> HD/Ultra HD.
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## Media Player

<b>Media Players</b> 2, with non volatile flash memory.	<b>Media Pool Clip Capacity</b> 2 with fill and key. Shared pool.	<b>Media Player Clip Length in Ultra HD</b> 90 frames.
<b>Media Pool Still Image Capacity</b> 20 with fill and key.	<b>Media Pool Clip File Format</b> TGA Sequence.	<b>Media Pool Audio File Format</b> WAV, MP3 and AIFF.
<b>Media Pool Still Image Format</b> PNG, TGA, BMP, GIF, JPEG and TIFF.	<b>Media Player Clip Length in 720 HD</b> 1440 frames.	
<b>Channels</b> Fill and key for each Media Player.	<b>Media Player Clip Length in 1080 HD</b> 360 frames.	

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## Control

<b>Control Panel</b> Built in with camera control. Software panel included. Supports optional broadcast panel.	<b>Control Panel Compatibility</b> Includes ATEM Software Control Panel. Also compatible with ATEM 1 M/E Broadcast Panel and ATEM 2 M/E Broadcast Panel.	<b>Control Panel Included</b> ATEM Software Control Panel included free for macOS Sierra 10.12 or macOS High Sierra 10.13 or later and Windows 8.1 64-bit or Windows 10 64-bit.
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## Software

<b>Software Updates</b> Using USB connection directly connected to macOS or Windows computers. Includes ATEM Switcher Utility.	<b>Configuration</b> Set via ATEM Software Control Panel, excluding ATEM chassis IP address which is set via the ATEM Switcher Utility connected via USB to chassis.
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## Operating Systems



macOS 10.12 Sierra,  
macOS High Sierra 10.13 or later.



Windows 8.1 or  
Windows 10.

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## Power Requirements

### Power Supply

1 x Internal 110 - 240V AC. 4 pin 12V  
DC.

### Power Usage

70W

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## Physical Specifications



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## Environmental Specifications

### Operating Temperature:

5°C to 40°C

### Storage Temperature:

-20° to 60°C (-4° to 140°F)

### Relative Humidity:

0% to 90% non-condensing

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## What's Included

ATEM Television Studio Pro 4K

SD card with software and manual

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## Warranty

12 Months 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](http://www.blackmagicdesign.com).

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