Blackmagicdesign

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
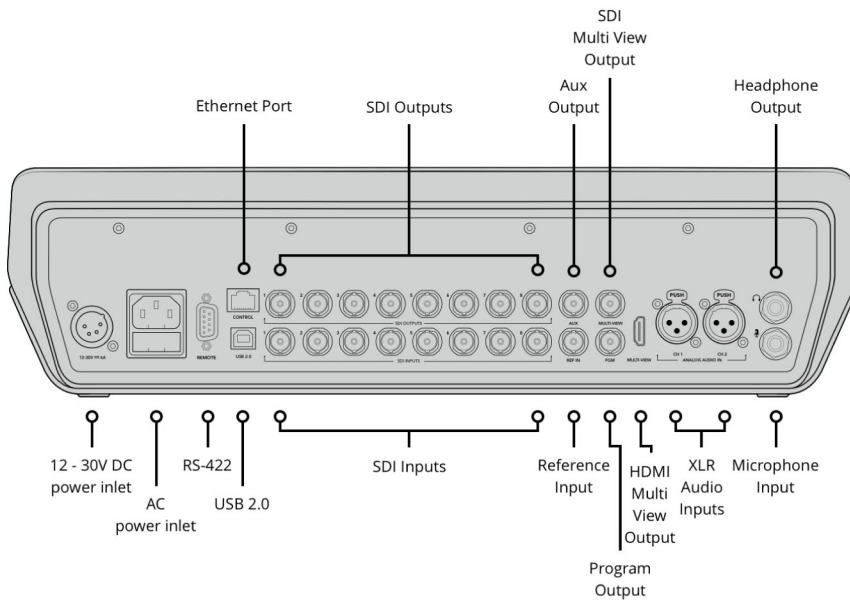9 x 10-bit HD/UHD switchable.

SDI Audio Outputs
2 Ch embedded into SDI output.

Multi View Monitoring
1

Multi View Video
1 x SDI and 1 x HDMI.

Ethernet Port SDI Outputs

SDI
Multi View
Output

Aux
Output

Headphone
Output

SDI OUTPUTS
SDI INPUTS
AUX MULTI VIEW
REF IN PGM MULTI VIEW
CONTROL REMOTE USB 2.0
CH 1 CH 2
ANALOG AUDIO IN
PUSH PUSH
12-30V FP-6A

12 - 30V DC
power inlet

AC
power inlet

RS-422

USB 2.0

SDI Inputs

Reference
Input

HDMI
Multi
View
Output

Program
Output

XLR
Audio
Inputs

Microphone
Input

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

Color Generators
2

DVE with 3D Borders & Drop Shadow
1

Interface
Minimum monitor resolution of 1366 x 768.

Number of Windows
1 x 10

Routable Windows
8 routable and 2 fixed for Program and Preview.

Tally
Red for program and green for preview indication.

Tally Output
Embedded via SDI. Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included)

Windows Source Labels
Yes.

Multi View Monitoring

Multi View Monitoring
1 x 10 Views.

Multi View Video Standard
HD/Ultra HD.

Media Player

Media Players
2, with non volatile flash memory.

Media Pool Still Image Capacity
20 with fill and key.

Media Pool Still Image Format
PNG, TGA, BMP, GIF, JPEG and TIFF.

Channels
Fill and key for each Media Player.

Media Pool Clip Capacity
2 with fill and key. Shared pool.

Media Pool Clip File Format
TGA Sequence.

Media Player Clip Length in 720 HD
1440 frames.

Media Player Clip Length in 1080 HD
360 frames.

Media Player Clip Length in Ultra HD
90 frames.

Media Pool Audio File Format
WAV, MP3 and AIFF.

Control

Control Panel
Built in with camera control. Software panel included. Supports optional broadcast panel.

Control Panel Compatibilty
Includes ATEM Software Control Panel. Also compatible with ATEM 1 M/E Broadcast Panel and ATEM 2 M/E Broadcast Panel.

Control Panel Included
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.

Software

Software Updates
Using USB connection directly connected to macOS 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
1 x Internal 110 - 240V AC. 4 pin 12V
DC.

Power Usage
70W

Physical Specifications

302 mm

423 mm

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