Blackmagic Design BMD-SWATEMMINICEXT ATEM Mini Extreme Switcher

Standards

HD Video Input Standards

- 720p50, 720p59.94, 720p60
- 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60
- 1080i50, 1080i59.94, 1080i60

HD Video Output Standards

- 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60

Video Streaming Standards

- 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60

Ultra HD Video Standards

- None

Video Sampling

- 4:2:2 YUV

Color Precision

- 10-bit

Color Space

- Rec 709

HDMI Input Resolutions from Computers

- 1280 x 720p 50Hz, 59.94Hz and 60Hz
- 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94 and 60Hz
- 1920 x 1080i 50, 59.94Hz and 60Hz

Colorspace Conversion

- Hardware based real time.

Product Specifics

Upstream Keyers

- 4

Downstream Keyers

- 2

Advanced Chroma Keyers

- Up to 4

Linear/Luma Keyers

- Up to 4

Transition Keyer

- DVE only.

Total Number of Layers

- 9

Pattern Generators

- 5

Color Generators

- 2

DVE With Borders and Drop Shadow

- 2

Interface

- Minimum monitor resolution of 1366 x 768.

Audio

Audio Mixer

- 11 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. Master gain control.

Analog Input

- Unbalanced stereo

Analog Input Delay

- Up to 8 frames

Input Impedance

- 1.8k

Max Input Level

- +6dBV

Mic Plug In Power

- Available on both 3.5mm mini jack connections.

Streaming

Direct Streaming

- ATEM Mini Extreme supports direct live streaming using Real Time Messaging Protocol (RTMP) over ethernet or a shared mobile internet connection over USB-C.

Recording

Direct Recording Video and Audio

- USB-C 3.1 Gen 1 expansion port can record directly to external media.

Video Recording

- 1 x Program out as H.264 .mp4 file at the Streaming quality setting and at the ATEM video standard with AAC audio.

Media Format

- Supports media formatted ExFAT (Windows/Mac) or HFS+ (Mac) file system.

Multi View Monitoring

- Configurable to 16, 13, 10, 7 or 4 up views including Program, Preview, 8 HDMI inputs, SuperSource, Clean Feed, Media Player, Streaming Status, Recording Status and Audio Meters.

Multi View Video Standard

- HD

Media Player

- 2

Channels

- Fill and key for each Media Player.

Media Pool Still Image Capacity

- 20 with fill and key.

Media Pool Still Image Format

- PNG, TGA, BMP, GIF, JPEG and TIFF.

Control

Control Panel

Built in control panel. Software control panel with camera control included. Supports optional hardware panel.

Control Panel Connection

- Ethernet supports 10/100/1000 BaseT. Ethernet used for direct connection between panel and chassis or via network. ATEM Mini Extreme also supports direct USB-C connection. Ethernet or USB-C used for updating the software.

Control Panel Compatibility

- Includes ATEM Software Control Panel. Also compatible with ATEM 1 M/E Advanced Panel, ATEM 2 M/E Advanced Panel and ATEM 4 M/E Advanced Panel. ATEM Mini Extreme can be configured using Blackmagic Videohub Hardware Panel Setup utility to route sources to destinations using Videohub Smart Control Pro and Videohub Master Control Pro.

Control Panel Included

- ATEM Software Control Panel included free for Mac 10.14 Mojave, Mac 10.15 Catalina, Mac 11 Big Sur or later and Windows 10 64 bit only.

Software

Software Updates

- Using USB or Ethernet connection directly connected to Mac OS X 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

- Mac 10.15 Catalina,
- Mac 11.1 Big Sur or later.
- Windows 10, 64-bit.

Power Requirements

Power Supply

- 1 x External 12V power supply.

Power Usage

- 36W

Environmental Specifications

Operating Temperature

- 5° C to 40° C (41° - 104° F)

Storage Temperature

- -10° to 60° C (14° to 140° F)

Relative Humidity

- 0% to 90% non-condensing