

## ATEM Mini Extreme



ATEM Mini Extreme is an advanced switcher for true professionals! You get all the ATEM Mini Pro features plus 8 HDMI inputs, 2 separate HDMI outputs, 2 USB ports and a headphone connection. There are also 4 chroma keyers, 6 picture in picture DVEs, 2 media players, and a multiview with up to 16 views!

### Connections

**Total Video Inputs**

8

**Total Outputs**

2

**Total Aux Outputs**

2

**Total Audio Inputs**

2 x 3.5mm stereo mini jack.

**Total Audio Outputs**

1 x 3.5mm stereo mini jack.

**Timecode Connection**

None

**HDMI Video Inputs**

8 x HDMI type A, 10-bit  
HD switchable.  
2 channel embedded audio.

**Video Input Re-Sync**

On all 8 HDMI inputs.

**Frame Rate and Format Converters**

On all 8 HDMI inputs.

**HDMI Program Outputs**

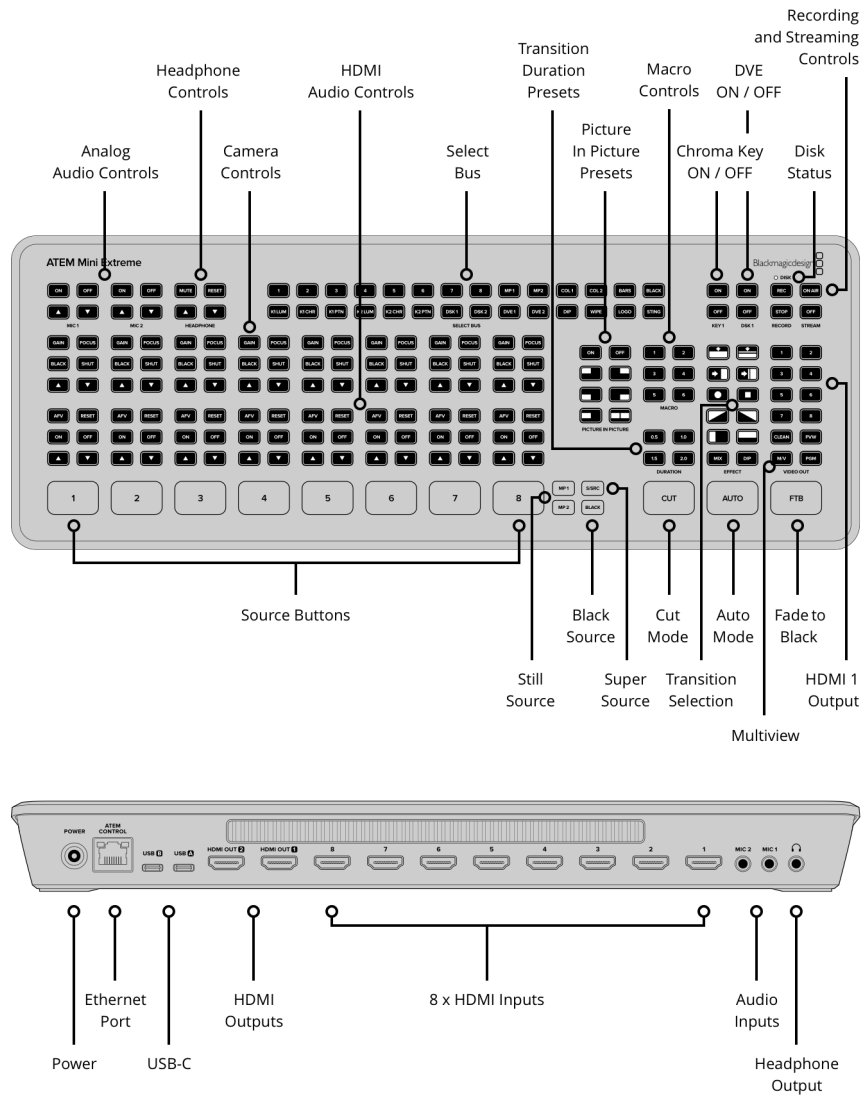
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**Ethernet**

Ethernet supports 10/100/1000 BaseT for live streaming, software control, software updates and direct or network panel connection.

**Computer Interface**

2 x USB Type-C 3.1 Gen 1 for external drive recording, webcam out, software control, software updates and panel connection.



## 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.

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## Product Specifics

### Upstream Keyers

4

### Transition Keyer

DVE only.

### DVE With Borders and Drop Shadow

2

### Downstream Keyers

2

### Total Number of Layers

9

### Interface

Minimum monitor resolution of 1366 x 768.

### Advanced Chroma Keyers

Up to 4

### Pattern Generators

5

### Linear/Luma Keyers

Up to 4

### Color Generators

2

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## 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.

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## 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.

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## 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.

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## Multi View Monitoring

### 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

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## Media Player

### Media Players

2

### Media Pool Still Image Capacity

20 with fill and key.

### Channels

Fill and key for each Media Player.

### Media Pool Still Image Format

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

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## Control

### Control Panel

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

### 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.

### 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.

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## 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.

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## Operating Systems



Mac 10.15 Catalina,  
Mac 11.1 Big Sur or later.



Windows 10, 64-bit.

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## Power Requirements

### Power Supply

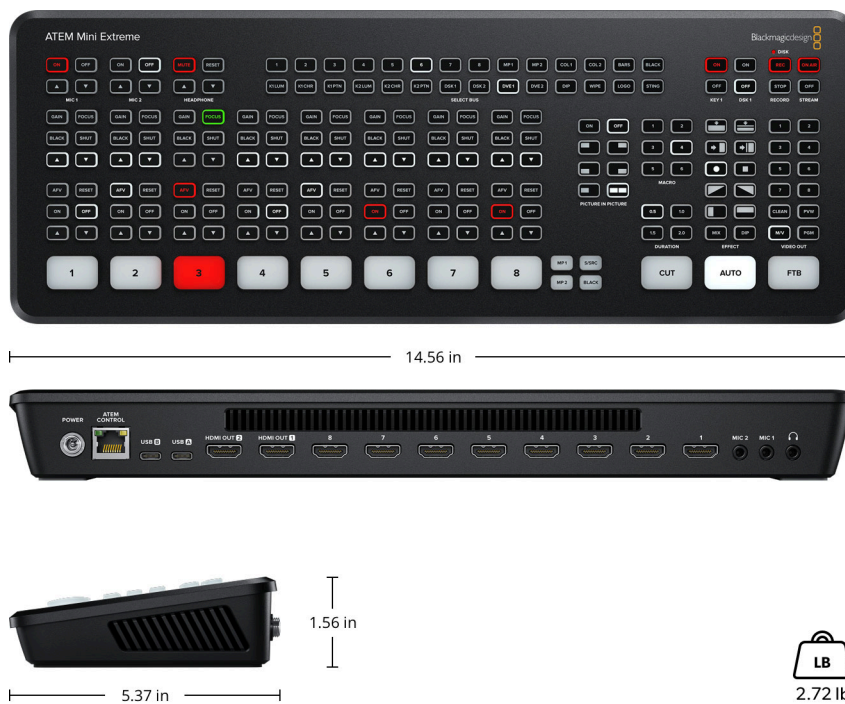
1 x External 12V power supply.

### Power Usage

36W

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## Physical Specifications



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## 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

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