Blackmagicdesign

ATEM Mini Extreme ISO

ATEM Mini Extreme ISO includes all the features of ATEM Mini Extreme, plus also records 9 separate H.264 video streams in real time, allowing capture of all 8 clean feed inputs as well as the program video. A DaVinci Resolve project file is also saved allowing the project to be recreated and edited later!

$1,295

Connections

Total Video Inputs
8

Total Outputs
4

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.
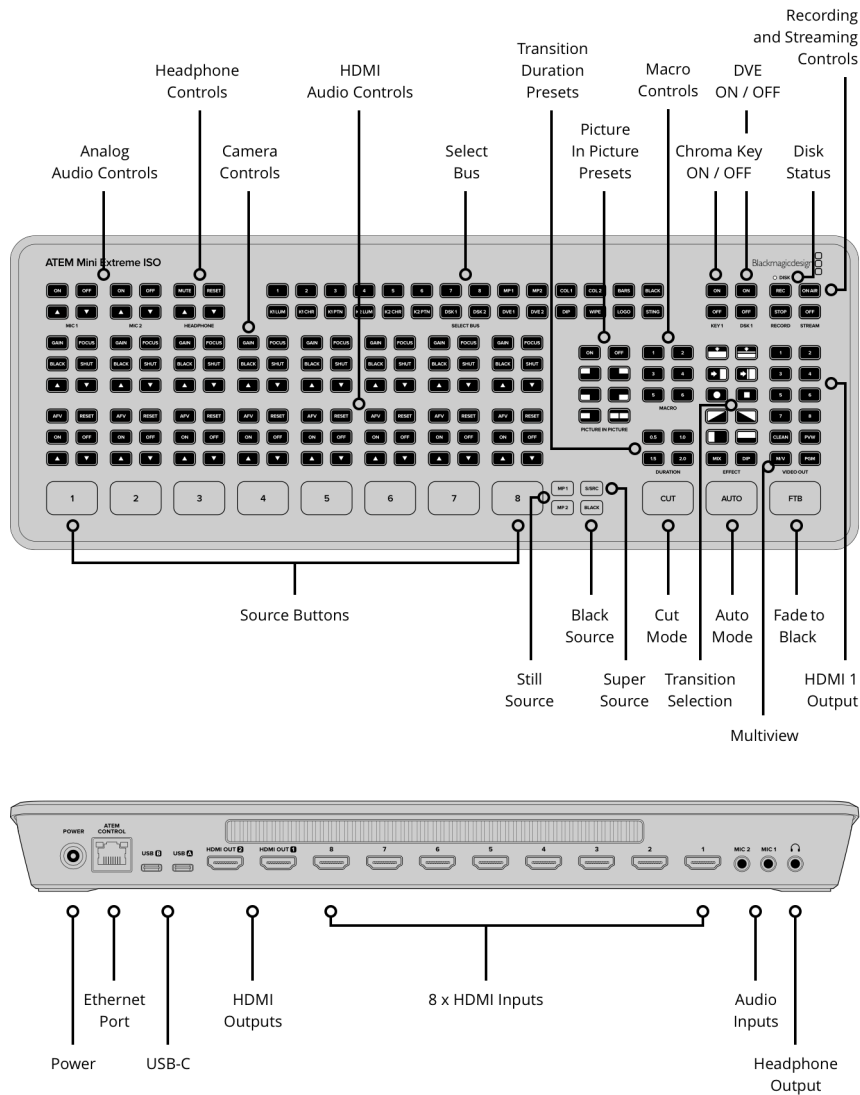
HDMI Program Outputs
2

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.

The diagram shows the ATEM Mini Extreme ISO front panel with the following labeled controls:

- Analog Audio Controls
- Headphone Controls
- Camera Controls
- HDMI Audio Controls
- Select Bus
- Transition Duration Presets
- Picture In Picture Presets
- Macro Controls
- Chroma Key ON / OFF
- DVE ON / OFF
- Recording and Streaming Controls
- Disk Status
- Source Buttons
- Still Source
- Black Source
- Super Source
- Cut Mode
- Transition Selection
- Auto Mode
- Fade to Black
- Multiview
- HDMI 1 Output

The rear panel shows:

- Power
- Ethernet Port
- USB-C
- HDMI Outputs
- 8 x HDMI Inputs
- Audio Inputs
- Headphone Output

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

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

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

Max Input Level
+6dBV

Analog Input Delay
Up to 8 frames

Mic Plug In Power
Available on both 3.5mm mini jack connections.

Input Impedance
1.8k

Streaming

Direct Streaming
ATEM Mini Extreme ISO 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
8 x HDMI ISO inputs as H.264 .mp4 files at up to 70Mb/s quality at the ATEM video standard with AAC audio.
1 x Program out as H.264 .mp4 file at the Streaming quality setting and at the ATEM video standard with AAC audio.

Audio Recording
10 x 2 channel audio inputs recorded as separate 24-bit 48KHz .wav files. Including 2 x analog 2 channel audio inputs and 8 x HDMI 2 channel embedded audio inputs.

Switching
Program switching recorded as a DaVinci Resolve project .drp file.

Media Format

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

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

Media Player

Media Players

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 ISO 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 ISO 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.

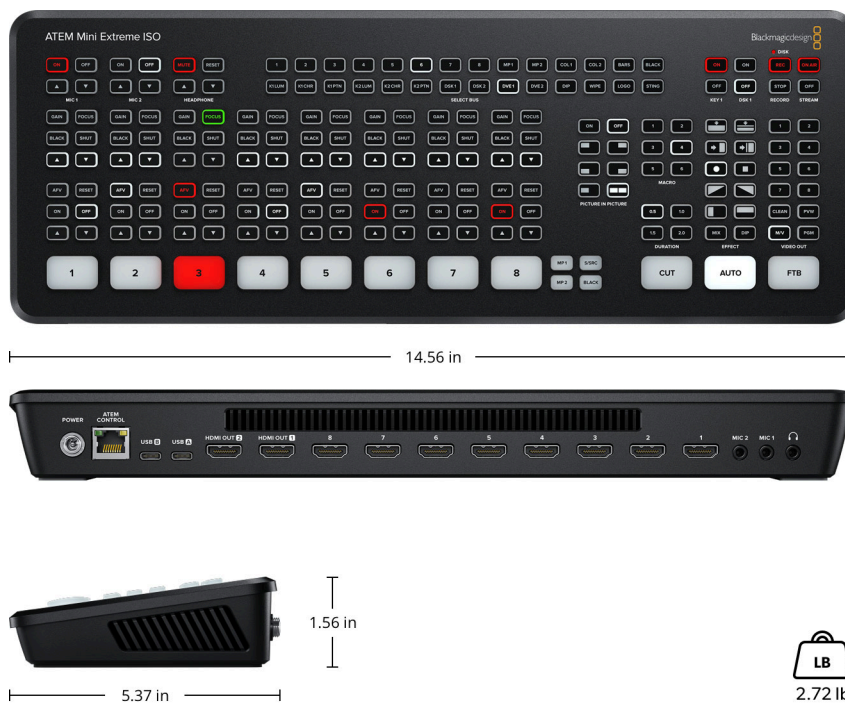Windows 10, 64-bit.

Power Requirements

Power Supply
1 x External 12V power supply.

Power Usage
36W

Physical Specifications

14.56 in

1.56 in

5.37 in

2.72 lb

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

What's Included

ATEM Mini Extreme ISO
External 12V DC power supply with international socket adapters

Warranty

12 Months Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller