Blackmagicdesign

ATEM Mini Extreme ISO
G2

ATEM Mini Extreme ISO G2 is a powerful yet compact live switcher for building a high-end broadcast studio. Get an expanded professional style control panel with built in streaming, 8 standards converted HDMI inputs, 3 independent HDMI outputs, built in streaming engine, multi-view, CFexpress and Thunderbolt for record/playback. There is also 10G Ethernet for fast network storage access, XLR audio inputs, USB webcam, DVE, chroma key, media player and ISO recording of all 8 video inputs.

$2,195

Connections

Total Video Inputs
9

Total Outputs
4

Total Aux Outputs
4

SDI Rates
1.5G, 3G

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

HDMI Video Outputs
3

HDMI Program Outputs
3

Total Audio Inputs
2 x XLR Combo with phantom power.
1 x BNC 32 Ch MADI digital audio.

Total Audio Outputs
1 x 6.35mm headphone jack

Timecode Connection
None

Reference Input
None

Video Input Re-Sync
On all 8 HDMI inputs and remote sources

Frame Rate and Format Converters
On all 8 HDMI inputs and remote sources

Webcam Output
2 x USB-C supporting 720p or 1080p at PGM frame rate.

Total Multi Views
1 x HDMI
1 x Webcam

Control Panel Connection
Ethernet. Direct connection between panel and chassis, or via network.

Internal Timecode Generator
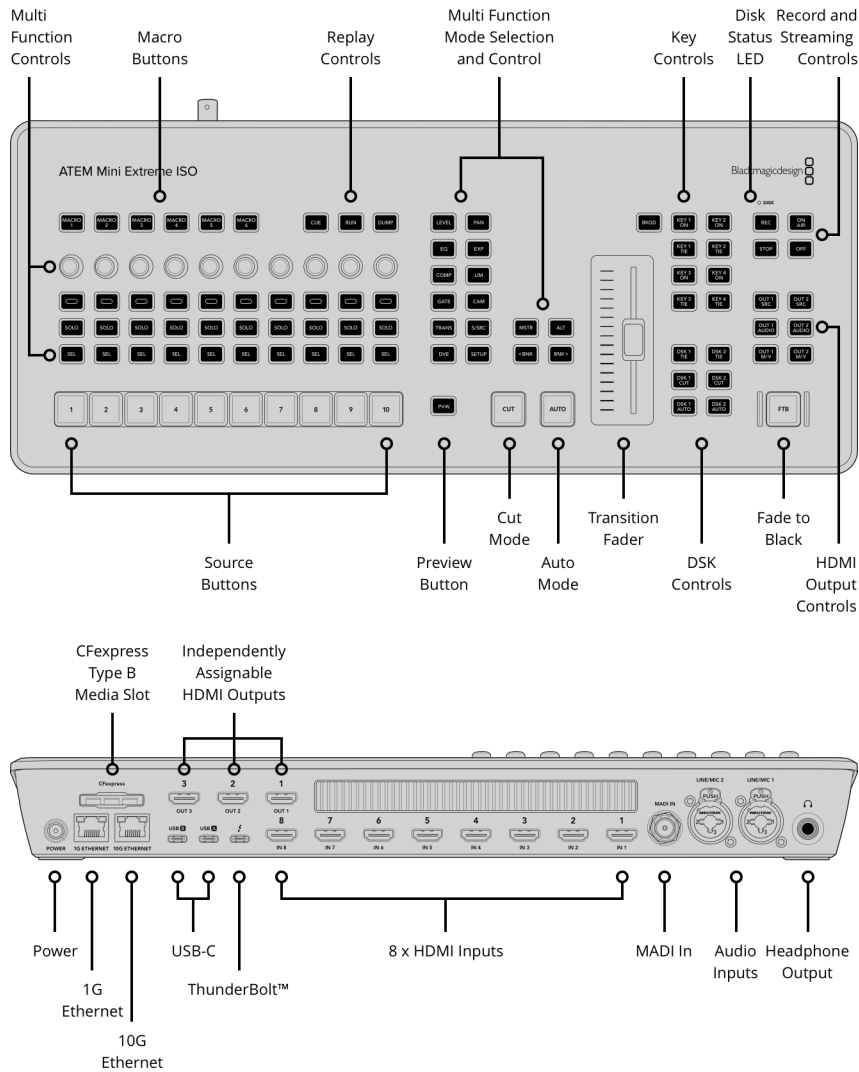Yes

Tally Output
On Blackmagic HDMI and remote cameras.

Ethernet
1 x 1G Ethernet for simple streaming, control panels and
internet connection,
1 x 10G Ethernet connection
for recording.

Computer Interface
2 x USB Type-C 3.1 Gen 1 for external drive recording, webcam out, software control, software updates and panel connection.
1 x Thunderbolt for fill key video out, video input, ethernet to storage, and power

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

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.

SDI Auto Switching

-

Product Specifics

Number of Mix Effects Rows
1

Direct Cross Points
10

Crosspoint Button Type
NKK Buttons

Preview Transition
1

Source Select Bus
Set using Multi Function Controls and Fairlight Audio Status Output.

Dedicated Macro Buttons
6

Transition Type Buttons
Set using Multi Function Controls and Fairlight Audio Status Output.

Transition Rate
Set using Multi Function Controls and Fairlight Audio Status Output.

Key Buttons
8

AUX Buttons
6

Fader Bar
1

Record Buttons
2

Stream Buttons
2

DSK Transition Selectors
6

Fade to Black Buttons
1 NKK button

Upstream Keyers
4

Downstream Keyers
2

Advanced Chroma Keyers
Up to 4

SuperSource
1

DVEs
2

Linear/Luma Keyers
Up to 4

Transition Keyer (Stinger/DVE)
DVE only

Color Generators
2

Control Panel
Set using Multi Function Controls and Fairlight Audio Status Output.

Routable Windows
16

Tally
Red for program and green for preview indication.

Audio

Audio Mixer
26 input x 2 channel mixer.
(8 HDMI+16MADI+XLR+Thunderbolt)
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
Balanced stereo XLR combo connectors

Analog Input Delay
Up to 8 frames

Mic Plug In Power
+48V phantom power on XLR combo inputs

Streaming Sources

Total Streaming Sources
Up to 8

Streaming Source Format

RTMP/SRT video with audio over a local network or internet connection from compatible Blackmagic Design cameras outputting HyperDeck High, HyperDeck Medium, HyperDeck Low, Streaming High, Streaming Medium or Streaming Low quality setting. Please refer to either the Manual or the Information Note at www.blackmagicdesign.com/support for data rates.

Streaming Source Setup

Mapped to inputs in ATEM Software Control Settings.

Streaming

Direct Streaming

Supports direct live streaming using Real Time Messaging Protocol (RTMP) and Secure Reliable Transport (SRT) over ethernet or a shared internet connection over USB-C.

Recording

Direct Recording Video and Audio

CFExpress slot for recording
Network Recording
USB-C Recording

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

26 x 2 channel audio inputs recorded as separate 24-bit 48KHz .wav files. Including 1 x analog 2 channel audio input, 8 x Input source 2 channel embedded audio inputs and 32 x MADI audio channels.

Switching

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

Media Format

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

Cloud Synchronization

Blackmagic Cloud

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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

Media Player

Media Players
2

Media Pool Still Image Format
200 frames in 1080 HD.

Media Pool Audio File Format
WAV, MP3 and AIFF.

Channels
Fill and key for each Media Player.

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

Media Pool Still Image Capacity
20 with fill and key.

Media Pool Video File Format
TGA Sequence.

Control

Control Panel
Built in control panel. Supports optional hardware panel.
ATEM Software Control Panel for Mac and Windows included for free.

Control Panel Compatibility
Compatible with ATEM Micro Panel, ATEM 1 M/E Advanced Panels, ATEM 2 M/E Advanced Panels, ATEM 4 M/E Advanced Panels plus ATEM Camera Control Panel and ATEM Micro Camera Panel. ATEM can also 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 Connection
Ethernet supports 10/100/1000/10G BaseT.
Ethernet used for direct connection between panel and chassis or via network. Also supports direct USB-C connection. Ethernet or USB-C used for updating the software.

Processing

Audio Mixer
58 Channel mixer.
Selectable On/Off/Audio-Follow-Video.
Level and Peak metering.
Master gain control.
6 band parametric EQ, Dynamics including Expander, Gate, Compressor and Limiter.

Camera Control
When used with most Blackmagic Design cameras, ATEM can control focus, iris and zoom of compatible lenses and camera settings including gain, white balance, tint, shutter, ND filter, color corrector, tally and record start/stop.

Software

Control Panel Included
ATEM Software Control Panel
included free for macOS 14.0
Sonoma, macOS 15.0 Sequoia
or later. and Windows 10 or 11.

Software Updates
Using USB or Ethernet connection
directly connected to Mac or
Windows computers. Includes ATEM
Setup Utility.

Configuration
Set via ATEM Software Control,
excluding ATEM chassis IP address
which is set via the ATEM Switcher
Utility connected via USB to chassis.

Operating Systems

Mac 14.0 Sonoma,
Mac 15.0 Sequoia or later.

Windows 10 and 11.
Windows 11 for ARM

Power Requirements

Power Supply
1 x External 12V power supply.

Power Usage
120 W max.

Physical Specifications

16.3 in

1.97 in

7.35 in

LB
4.09 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 G2
External 12V DC power supply

Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller