

Blackmagic Design BMD-SWATEMMXEPCEXTISO ATEM SDI Extreme ISO 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

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 SDI 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 SDI 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 SDI 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 SDI 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 SDI 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 SDI 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 11.0 Big Sur, Mac 12.0 Monterey or later and Windows 10 64 bit or Windows 11.

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 11.0 Big Sur,
- Mac 12.0 Monterey or later.
- Windows 10, 64-bit.
- Windows 11.

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