

# ATEM 1 M/E Production Studio 4K



The advanced ATEM 1 M/E Production Studio 4K model switches between SD, HD or Ultra HD video standards so you can connect a wide range of video sources such as cameras, disk recorders and computers. Featuring 10 inputs, chroma keys, transitions, media pool, 4 upstream keyers, downstream keyers, audio mixer, multi view, full motion DVE, stinger transitions, large media pool with full motion clips and 3 auxiliary outputs!

\$2,495

### Connections

## **Total Video Input**

10

### **Total Video Output**

8

### **SDI Video Input**

10 x 10-bit SD/HD/Ultra HD 4K switchable. 2 channel embedded audio.

#### **HDMI Video Input**

1 x HDMl type A. 10-bit SD/HD/Ultra HD 4K switchable. 2 channel embedded

#### **Analog Audio Output**

2 x XLR.

#### **SDI Audio Output**

2 Ch embedded into SDI output on all outputs.

#### **Audio Input**

2 x XLR. 2 x RCA.

## Sync Input

Tri-Sync or Black burst.

### **Internal Frame Synchronizers**

10. All inputs.

### **SDI Program Output**

2 x 10-bit SD/HD/Ultra HD 4K switchable.

### **HDMI Program Output**

1 x HDMI type A, 10-bit SD/HD/Ultra HD 4K switchable.

# Down Converted SDI

**Program Output** 

# 1 x 10-bit (Ultra HD 4K to HD)

#### **SDI Preview Output**

1 x 10-bit SD/HD/Ultra HD 4K switchable.

#### SDI Aux. Output

3 x 10-bit SD/HD/Ultra HD 4K switchable.

## **Quantity of Multi Views**

2

## **Multi View Outputs**

1 x SDI and 1 x HDMI.

#### **Control Panel Connection**

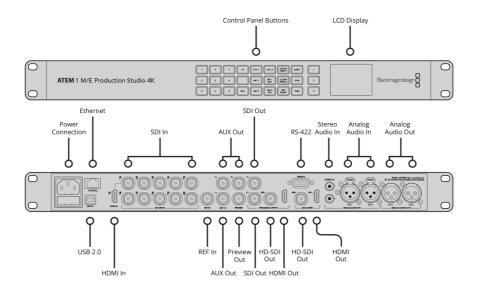
Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network.

#### **Tally Output**

Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included.)

#### **Computer Interface**

1 x USB 2.0 port.



## Standards

### **SD Format Support**

525/29.97 NTSC 4:3, 16:9, 625/25 PAL 4:3, 16:9

## **HD Format Support**

720p50, 59.94 1080p23.98, 24, 25, 29.97, 50, 59.94 1080i50, 59.94

## **Ultra HD Format Support**

2160p23.98, 24, 25, 29.97

## **SDI Compliance**

SMPTE 259M, SMPTE 292M, SMPTE 424M.

## **Video Sampling**

4:2:2.

#### **Color Precision**

10-bit

### **Color Space**

REC 601, REC 709, REC 2020.

# HDMI Input Resolutions for Computers

720 x 480i 59.94Hz, 720 x 576i 50Hz, 1280 x 720 59.94Hz, 1280 x 720 50Hz,

1920 x 1080 50Hz,

1920 x 1080 59.94Hz,

3840 x 2160 23.98Hz,

3840 x 2160 24Hz, 3840 x 2160 25Hz,

3840 x 2160 29.97Hz.

## Software

#### **Control Panel Included**

ATEM Software Control Panel included free for Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later and Windows 8.1 64-bit or Windows 10 64-bit.

#### **Software Updates**

Using USB 2.0 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.

## Processing

### **Colorspace Conversion**

Hardware based real time.

### **Processing Delay**

< 2 Lines.

#### **Audio Mixer**

12 input x 2 channel mixer. Selectable On/Off/Audio-Follow-Video. Level and Peak metering. Master gain control. Analog outputs may be used for separate monitoring.

#### 4K to HD Down Conversion

Yes, program x 1.

## Operating Systems



Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later.



Windows 8.1 64-bit or Windows 10 64-bit.

## **Product Specifics**

### **Total Number of Layers**

8

#### **Upstream Keyers**

## **Downstream Keyers**

2

## Linear/Luma Keyers

## Chroma Keyers

#### **Pattern Generators**

7

#### **Color Generators**

## Transition Keyer (Stinger/DVE)

1 and 1

## **DVE with 3D Borders & Drop Shadow**

#### **Control Panel Compatibility**

ATEM 1 M/E Broadcast Panel preferred. Compatible with ATEM 2 M/E Broadcast Panel. Includes ATEM Software Control Panel.

## Display

## Interface

Minimum monitor resolution of 1366 x 768.

## Front panel

Built in LCD monitor for video and 27 LED buttons for Aux switching.

## Media Player

## Media Players

2

#### Channels

Fill and key for each Media Player.

# Media Pool Still Image Capacity

32 with fill and key.

## Media Pool Clip Capacity

2 with fill and key.

# Maximum Clip Length in

Ultra HD 4K

180 frames

# Maximum Clip Length in 1080

720 frames.

# Maximum Clip Length in 720p

1600 frames.

# Maximum Clip Length in NTSC/PAL

3600 frames.

## Media Pool Still Image Format

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

### Media Pool Video File Format

TGA Sequence.

## Media Pool Audio File Format

WAV, MP3 and AIFF.

## Multi View Monitoring

## **Number of Windows**

1 x 10

## Tally

Red for program and green for preview indication.

### **Windows Source Labels**

Yes

# **Routable Windows**

## Physical Installation

## **Physical Installation**

1 Rack Unit Size.

## Power Requirements

## **Power Usage**

100 W

## **Power Supply**

1 x built in international AC power supply. 110-240V AC.

## **Physical Specifications**



## **Environmental Specifications**

## **Operating Temperature**

0° to 40° C (32° to 104° F)

## **Storage Temperature**

-20° to 60° C (-4° to 140° F)

#### **Relative Humidity**

0% to 90% non-condensing

## What's Included

ATEM 1 M/E Production Studio 4K SD card with software and manual

## Warranty

12 month Limited Manufacturer's Warranty.

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