

# ATEM 4 M/E Constellation 4K



ATEM 4 M/E Constellation 4K is a massive 4 M/E Ultra HD live production switcher. It features 40 standards converted 12G-SDI inputs, 24 12G-SDI aux outputs, 4 DVEs, 16 ATEM Advanced Chroma Keyers, 4 media players, 4 independent Ultra HD multiviews, 2 SuperSource processors and more. You even get built in talkback and a professional 156 channel Fairlight audio mixer with EQ and dynamics!

\$10,705

#### Connections

**Total Video Inputs** 

40

**Total Video Outputs** 

28

**Total Aux Outputs** 

24

**SDI Rates** 

1.5G, 3G, 6G, 12G.

**Total Audio Inputs** 

2 x balanced 1/4 inch Jack,

1 x 32 stereo channel BNC MADI in,

1 x 5 pin XLR Talkback.

**Total Audio Outputs** 

2 x balanced 1/4 inch Jack,

2 x 32 stereo channel BNC MADI out,

1 x 5 pin XLR Talkback.

**Timecode Connections** 

None

Reference Input

Tri-Sync or Black Burst.

Video Input Re-Sync

On all 40 inputs.

Frame Rate and Format Converters

On all 40 inputs.

**SDI Video Inputs** 

40 x 10-bit 720p, 1080i, 1080p, 2160p.

**SDI Audio Inputs** 

8 Ch embedded audio on all SDI

inputs.

**Extra Audio Inputs** 

1 x 5 pin XLR Talkback.

**SDI Video Outputs** 

28 x 10-bit 720p, 1080i, 1080p, 2160p.

**SDI Audio Outputs** 

16 Ch embedded into SDI output on all outputs.

**Extra Audio Outputs** 

1 x 5 pin XLR Talkback.

**SDI Program Outputs** 

Any of the 24 SDI outputs.

Down Converted SDI Program

Output

1

**SDI Preview Outputs** 

Any of the 24 SDI outputs.

**SDI Multi View Outputs** 

4

**HDMI Multi View Outputs** 

None

Webcam Output

1 x USB-C supporting 720p or 1080p at PGM frame rate.

Remote

RJ12 supports RS-422.

Control Panel Connection

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

via network.

Internal Timecode Generator

Yes

Talkback

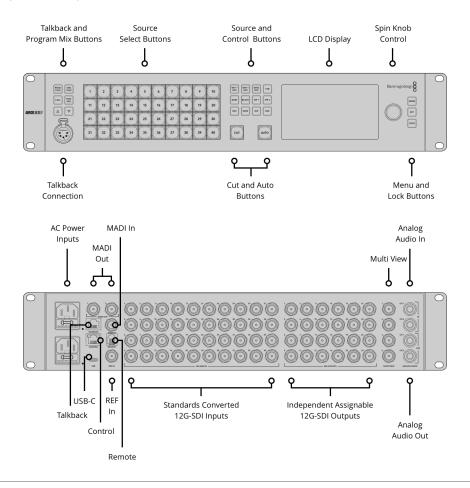
RJ45 for 3rd party talkback systems.

#### **Tally Output**

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

#### **Computer Interface**

1 x USB-C port.



# Standards

## **SD Video Standards**

None

#### **HD Video Standards**

720p50, 720p59.94, 720p60 1080i50, 1080i59.94, 1080i60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60.

## Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.

# **SDI Compliance**

SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M level A and B, SMPTE 2081-1, SMPTE 2081-10, SMPTE 2082-1 and SMPTE 2082-10, SMPTE 2082-12.

# **Video Sampling**

4:2:2

#### **Color Precision**

10-bit.

## **Color Space**

REC 709, REC 2020.

#### **SDI Auto Switching**

Automatically detects between 1.5G-SDI, level A and level B 3G-SDI, 6G-SDI and 12G-SDI.

# **Product Specifics**

**Upstream Keyers** 

16

**Downstream Keyers** 

4

**Advanced Chroma Keyers** 

16

SuperSource

2

**Talkback Support** 

Yes

Yes

Linear/Luma Keyers

21

Transition Keyer (Stinger/DVE)

4 Stinger, 4 DVE.

**Total Number of Layers** 

28

**Pattern Generators** 

**Color Generators** 

2

**DVEs Mix Minus Support** 4

**Control Panel** 

Front fascia emergency switching, software or optional hardware panel.

**Routable Windows** 

64

Tally

Red for program and green for

preview indication.

Windows Source Labels

Yes

# Multi View Monitoring

**Multi View Monitoring** 

4 x 16 Multi View pattern options for up to 64 total views.

Multi View Video Standard

Select HD or Ultra HD.

# Media Player

Media Players

4

Channels

Fill and key for each media player.

Media Pool Still Image Capacity

64

**Media Pool Clip Capacity** 

Media Player Clip Length in 720 HD

3200 frames.

Media Player Clip Length in 1080 HD

1600 frames.

Media Player Clip Length in Ultra HD

400 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.

# Display

# Interface

Minimum monitor resolution of 1366 x 768.

#### Front panel

Built in HD LCD monitor for video, 42 LED buttons for setup and emergency switching, 8 source buttons, 4 transition buttons, 6 talkback selection and mix buttons, menu control knob and set button, front panel lock button.

# Processing

#### **Processing Delay**

< 10 lines.

#### Audio Mixer

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

#### **Down Conversion**

1 x selectable HD down converted output

# Software

## **Control Panel Included**

ATEM Software Control Panel included free for Mac 12.0 Monterey, Mac 13.0 Ventura or later and Windows 10 and 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 Panel, excluding ATEM chassis IP address which is set via the ATEM Setup Utility connected via USB-C to chassis.

# **Operating Systems**



Mac 14.0 Sonoma, Mac 15.0 Sequoia or later.



Windows 10 and 11.

# Power Requirements

## **Power Supply**

2 x Internal 100 - 240 AC 50/60Hz.

#### **Power Usage**

255 W

# **Physical Specifications**



# Physical Installation

# **Physical Installation**

2 rack units height.

# **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 4 M/E Constellation 4K

Welcome wallet with QR code for software download

# Warranty

1 Year Limited Manufacturer's Warranty.

uties, but excludes sales tax and shipping costs. This website uses remarke of out at any time by changing cookie settings. <u>Privacy Policy</u>	eting services to advertise on third party websites to previous visitors to our	rsite. You cai
Blackmagic Design Authorized Reseller		

All items on this website are copyright Blackmagic Design Pty. Ltd. 2025, all rights reserved. All trademarks are property of their respective owners. MSRP includes