

# ATEM 2 M/E Constellation 4K



ATEM 2 M/E Constellation 4K is a powerful 2 M/E Ultra HD live production switcher. It features 20 standards converted 12G-SDI inputs, 12 12G-SDI aux outputs, 2 DVEs, 8 ATEM Advanced Keyers, 2 multiviews, media players, USB webcam output and a SuperSource for a total of 6 DVEs. You even get built in talkback and a professional 48 channel Fairlight audio mixer with EQ and dynamics!

**\$3,795**

## Connections

### Total Video Inputs

20

### Total Video Outputs

12

### SDI Rates

1.5G, 3G, 6G, 12G

### Total Audio Inputs

2 x balanced 1/4 inch Jack,  
1 x 5 pin XLR Talkback.

### Total Audio Outputs

1 x 5 pin XLR Talkback.

### SDI Audio Inputs

16 Ch embedded audio on all SDI inputs.

### SDI Audio Outputs

16 Ch embedded audio on all SDI outputs.

### Timecode Connections

None

### Reference Input

Tri-Sync or Black Burst.

### Video Input Re-Sync

On all 20 inputs.

### Frame Rate and Format Converters

On all 20 inputs.

### SDI Aux Outputs

Any of the 12 SDI outputs.

### SDI Preview Outputs

Any of the 12 SDI outputs.

### SDI Preview Outputs

Any of the 12 SDI outputs.

### Down Converted SDI Program

#### Output

1

### Webcam Output

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

### Total Multi Views

2 x 12G-SDI

### Control Panel Connection

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

### Internal Timecode Generator

Yes

### Talkback

RJ45 for 3rd party talkback systems.

### Tally Output

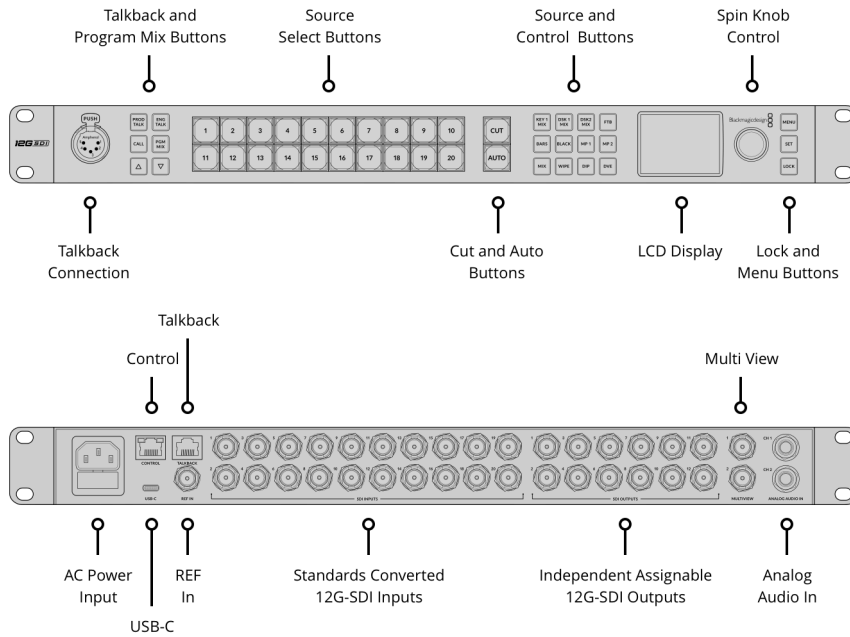
Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).

### Ethernet

Supports 10/100/1000 BASE-T.

### Computer Interface

1 x USB-C supports USB 2.0



## 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.

### 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 or level B 3G-SDI,  
 6G-SDI and 12G-SDI.

## Product Specifics

### Upstream Keys

8

### Downstream Keys

2

### Advanced Chroma Keys

8

### SuperSource

1

### DVEs

2

### Linear/Luma Keys

11

### Transition Keyer (Stinger/DVE)

2 Stinger, 2 DVE.

### Total Number of Layers

15

### Pattern Generators

11

### Color Generators

2

### Control Panel

Front fascia emergency switching,  
 software or optional hardware panel.

### Routable Windows

32

<b>Windows Source Labels</b> Yes	<b>Tally</b> Red for program and green for preview indication.	<b>Talkback Support</b> Yes
		<b>Mix Minus Support</b> Yes

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## Multi View Monitoring

<b>Multi View Monitoring</b> 2 x multi view configurable to 16, 13, 10, 7 or 4 up views. Includes monitoring of Program, Preview, Inputs, Media Players, Key Masks, Clean Feed with optional labels and audio meters.	<b>Multi View Video Standard</b> HD or Ultra HD
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## Media Player

<b>Media Players</b> 2	<b>Media Player Clip Length in 720 HD</b> 3200 frames.	<b>Media Pool Still Image Format</b> PNG, TGA, BMP, GIF, JPEG and TIFF.
<b>Channels</b> Fill and key for each media player.	<b>Media Player Clip Length in 1080 HD</b> 1600 frames.	<b>Media Pool Video File Format</b> TGA Sequence.
<b>Media Pool Still Image Capacity</b> 40	<b>Media Player Clip Length in 2160 UHD</b> 400 frames.	<b>Media Pool Audio File Format</b> WAV, MP3 and AIFF.
<b>Media Pool Clip Capacity</b> 2 x up to 2160p60.		

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## Display

**Front panel**  
Built in 2.2 inch LCD monitor for video, 22 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.

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## Processing

**Processing Delay**  
< 10 lines.

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**Audio Mixer**

48 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.

**Down Conversion**

1 x selectable HD down converted output

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**Software****Control Panel Included**

ATEM Software Control included free for Mac 13.0 Ventura, Mac 14.0 Sonoma or later and Windows 10 or 11.

**Software Updates**

Using USB or Ethernet connection directly connected to Mac OS 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 to chassis.

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**Operating Systems**

Mac 13.0 Ventura,  
Mac 14.0 Sonoma or later.



Windows 10 and 11.

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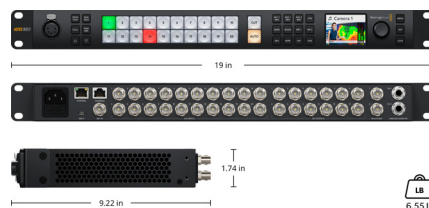
**Power Requirements****Power Supply**

1 x Internal 100 - 240 AC.

**Power Usage**

140 W

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**Physical Specifications**

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## Physical Installation

### Physical Installation

1 Rack Unit Size.

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## Environmental Specifications

Operating Temperature	Storage Temperature	Relative Humidity
0° to 40° C (32° to 104° F)	-20° to 60° C (-4° to 140° F)	0% to 90% non-condensing

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## What's Included

AEM 2 M/E Constellation 4K

Welcome wallet with QR code for software download

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## Warranty

12 Month Limited Manufacturer's Warranty.

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