

## ATEM 4 M/E Constellation 4K Plus



ATEM 4 M/E Constellation 4K Plus is a massive 4 M/E Ultra HD live production switcher. It features 80 standards converted 12G-SDI inputs, 48 12G-SDI aux outputs, 4 DVEs, 16 ATEM Advanced Chroma Keyers, 4 media players, 4 independent Ultra HD multi-views, 2 SuperSource processors and more. You even get built in talkback and a professional 156 channel Fairlight audio mixer with EQ and dynamics!

**\$14,295**

### Connections

#### Total Video Inputs

80

#### Total Video Outputs

52

#### Total Aux Outputs

48

#### SDI Rates

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

#### Total Audio Inputs

2 x balanced 1/4 inch jack,  
2 x 64 channel BNC MADI in,  
1 x 5-pin XLR Talkback.

#### Total Audio Outputs

2 x balanced 1/4 inch jack,  
4 x 64 channel BNC MADI out,  
1 x 5-pin XLR Talkback.

#### Timecode Connections

1 x 3-pin XLR Timecode In,  
1 x 3-pin XLR Timecode Out.

#### Reference Input

Tri-Sync or Black Burst.

#### Video Input Re-Sync

On all 80 inputs.

#### Frame Rate and Format Converters

On all 80 inputs.

#### SDI Video Inputs

80 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

52 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 48 SDI outputs.

#### Down Converted SDI Program

#### Outputs

8

#### SDI Preview Outputs

Any of the 48 SDI outputs

#### SDI Multi View Outputs

4 x dedicated outputs,  
Up to an extra 48 routable outputs.

#### HDMI Multi View Outputs

None

#### Webcam Output

1 x USB-C supporting 720p or 1080p at program 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

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**Talkback**

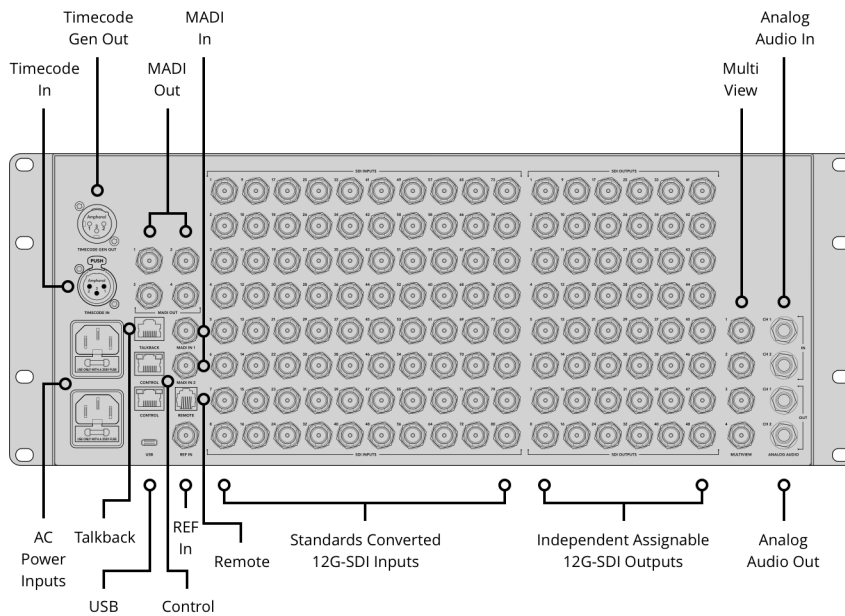
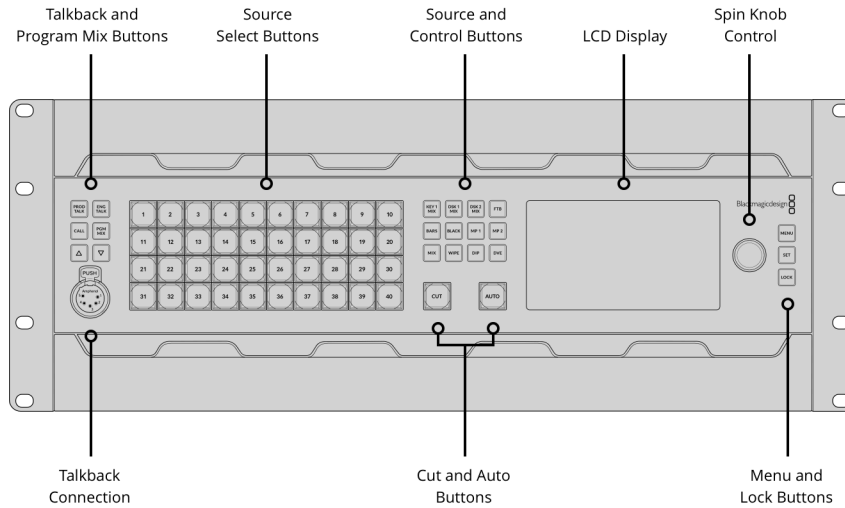
RJ45 for 3rd party talkback systems.

**Tally Output**

Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).  
On any of the 48 SDI Outputs.

**Computer Interface**

1 x USB-C port.



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**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.

<b>SDI Compliance</b> 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.	<b>Video Sampling</b> 4:2:2  <b>Color Precision</b> 10-bit.	<b>Color Space</b> Rec. 709, Rec. 2020  <b>SDI Auto Switching</b> Automatically detects between 1.5G- SDI, level A and level B 3G-SDI, 6G-SDI and 12G-SDI.
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## Product Specifics

<b>Upstream Keys</b> 16	<b>Linear/Luma Keys</b> 20	<b>Control Panel</b> Front fascia emergency switching, software or optional hardware panel.
<b>Downstream Keys</b> 4	<b>Transition Key (Stinger/DVE)</b> 4 Stinger, 4 DVE.	<b>Routable Windows</b> 64
<b>Advanced Chroma Keys</b> 16	<b>Total Number of Layers</b> 28	<b>Tally</b> Red for program and green for preview indication.
<b>SuperSource</b> 2	<b>Pattern Generators</b> 21	<b>Windows Source Labels</b> Yes
<b>Talkback Support</b> Yes	<b>Color Generators</b> 2	
<b>Mix Minus Support</b> Yes	<b>DVEs</b> 4	

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## Multi View Monitoring

<b>Multi View Monitoring</b> 4 x 16 Multiview pattern options for up to 64 total views.	<b>Multi View Video Standard</b> Select HD or Ultra HD.
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## Media Player

<b>Media Players</b> 4	<b>Media Player Clip Length in 720 HD</b> 3200 frames	<b>Media Pool Video File Format</b> TGA Sequence.
<b>Channels</b> Fill and key for each media player.	<b>Media Player Clip Length in 1080 HD</b> 1600 frames	<b>Media Pool Audio File Format</b> WAV, MP3 and AIFF.
<b>Media Pool Still Image Capacity</b> 64	<b>Media Player Clip Length in Ultra HD</b> 400 frames	
<b>Media Pool Clip Capacity</b> 4	<b>Media Pool Still Image Format</b> PNG, TGA, BMP, GIF, JPEG and TIFF.	

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## 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.

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## Processing

### Processing Delay

< 10 lines.

### Audio Mixer

298 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 Panel included free for macOS 14.0 Sonoma, macOS 15.0 Sequoia 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.

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## Operating Systems



Mac 14.0 Sonoma,  
Mac 15.0 Sequoia or later.



Windows 10 and 11.  
Windows 11 for ARM

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## Power Requirements

### Power Supply

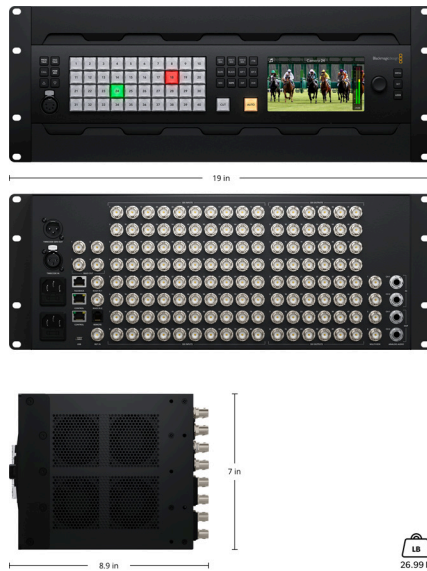
2 x Internal 100 - 240 AC 50/60Hz.

### Power Usage

400 W max.

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## Physical Specifications



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## Physical Installation

### Physical Installation

4 rack units height.

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## 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

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## What's Included

ATEM 4 M/E Constellation 4K Plus

Welcome wallet with QR code for software download

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## Warranty

1 Year Limited Manufacturer's Warranty.

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