

# ATEM 4 M/E Constellation HD



The massive 4 M/E model doubles the features of the 2 M/E model with 40 x 3G-SDI inputs, 24 x 3G-SDI outputs, 4 DVEs, 16 ATEM Advanced Keyers, 4 multiviews and 2 SuperSource for 12 x DVEs in total.

## Connections

**Total Video Inputs** 40

**Total Video Outputs** 24

### SDI Rates

1.5G, 3G

### 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.

**SDI Audio Inputs** 2 Ch embedded  
audio on all SDI inputs.

**SDI Audio Outputs** 2 Ch embedded  
audio on all SDI outputs.

**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 Aux Outputs**  
Any of the 24 SDI outputs.

**SDI Preview Outputs** Any of  
the 24 SDI outputs.

**SDI Program Outputs**  
Any of the 24 SDI outputs.

### Down Converted SDI

**Program Output** None

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

**Total Multi Views** 4  
x 3G-SDI

## Remote

RJ12 supports RS-422

**Control Panel Connection** Ethernet.  
Direct connection between panel and  
chassis, or via network.

**Internal Timecode Generator** Yes

## Talkback

RJ45 for 3rd party talkback systems.

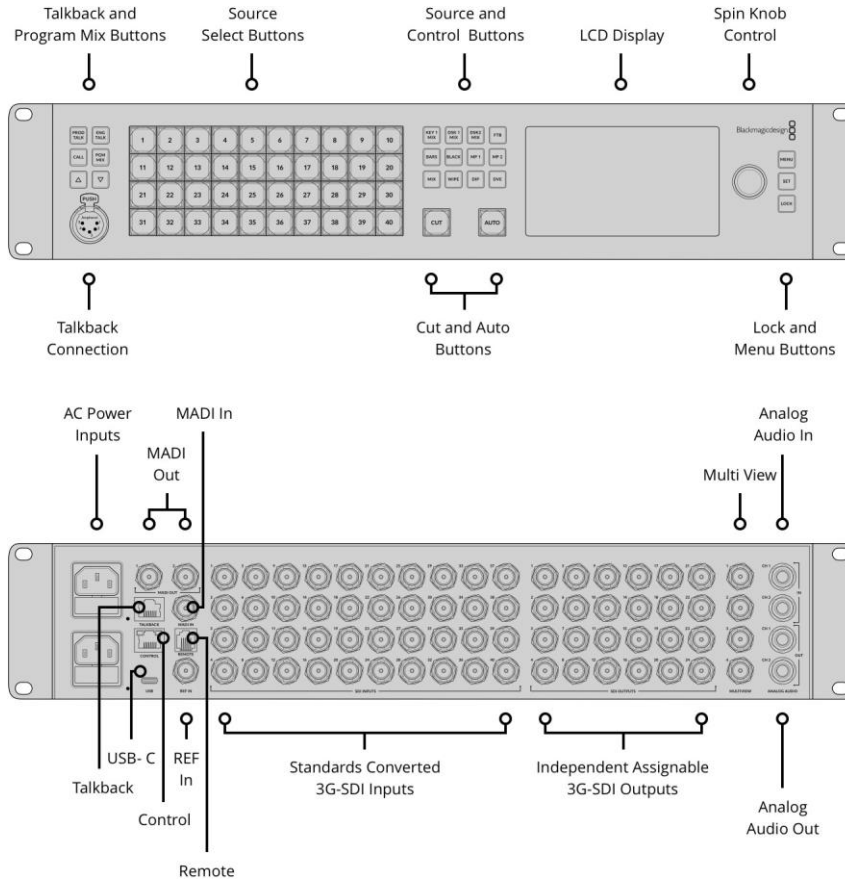
## Tally Output

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 3.1 Gen 1  
(5Gb/s)



## 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

### SDI Compliance

SMPTE 292M, SMPTE 296M, SMPTE  
 424M, SMPTE 425M level A and B.

### Video Sampling

4:2:2

**Color Precision** 10-bit.

### Color Space

REC 709

### SDI Auto Switching

Automatically detects between 1.5GSDI  
 and level A or level B 3G-SDI.

## Product Specifics

**Upstream Keys** 16

**Downstream Keys** 4

**Advanced Chroma Keys**

16

**SuperSource** 2

**Talkback Support** Yes

**Mix Minus Support**

Yes

**Linear/Luma Keys**

21

**Transition Keyer**

**(Stinger/DVE)** 4 Stinger, 4  
 DVE.

**Total Number of Layers**

28

<b>Pattern Generators</b> 21	<b>Control Panel</b> Front fascia emergency switching, software or optional hardware panel.	<b>Tally</b> Red for program and green for preview indication.
<b>Color Generators</b> 2	<b>Routable Windows</b> 64	<b>Windows Source Labels</b> Yes

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## Multi View Monitoring

<b>Multi View Monitoring</b> 4 x multi views each configurable to 16, 13, 10, 7 or 4 up views. Includes monitoring of Program, Preview, Inputs, Media Players, M/Es, DSKs, SuperSource, Clean Feed with optional labels and audio meters.	<b>Multi View Video Standard</b> HD
	<b>Display Minimum Resolution</b> 1366 x 768

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## Media Player

<b>Media Players</b> 4	<b>Media Pool Clip Capacity</b> 4 x up to 1080p60.	<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 720 HD</b> 1200 frames.	<b>Media Pool Video File Format</b> TGA Sequence.
<b>Media Pool Still Image Capacity</b> 60	<b>Media Player Clip Length in 1080 HD</b> 600 frames.	<b>Media Pool Audio File Format</b> WAV, MP3 and AIFF.

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## Display

<b>Front panel</b> Built in 5 inch 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.

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**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** None

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

ATEM Software Control Panel included  
free for Mac 11.11 Big Sur, Mac 12  
Monterey 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 11.1 Big Sur,  
Mac 12.0 Monterey or later.



Windows 10 and 11.

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## Physical Installation

### Physical Installation 2

Rack Unit Size.

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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 HD

Welcome wallet with QR code for software

[download](#)

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## Power Requirements

### Power Supply

2 x Internal 100 - 240 AC.

### Power Usage

147W estimated.

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## Physical Specifications Warranty

12 Month Limited Manufacturer's Warranty.

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