

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.

\$3,695

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

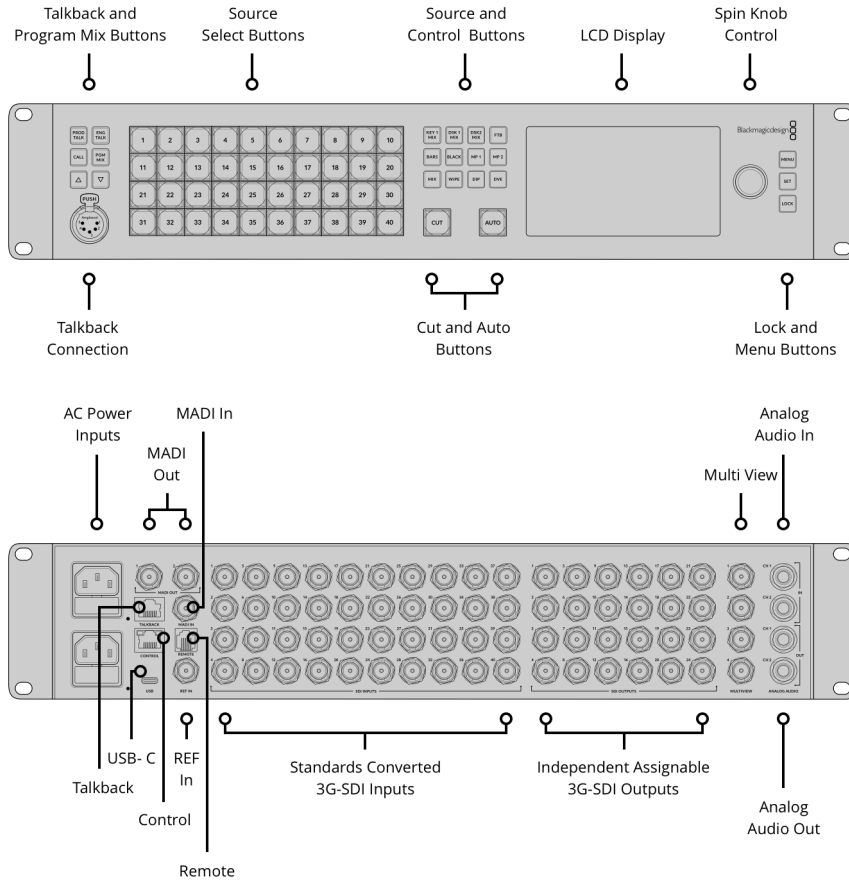
Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).

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 1.5G-SDI 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

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

Multi View Monitoring

Multi View Monitoring 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.	Multi View Video Standard HD
	Display Minimum Resolution 1366 x 768

Media Player

Media Players 4	Media Pool Clip Capacity 4 x up to 1080p60.	Media Pool Still Image Format PNG, TGA, BMP, GIF, JPEG and TIFF.
Channels Fill and key for each media player.	Media Player Clip Length in 720 HD 1200 frames.	Media Pool Video File Format TGA Sequence.
Media Pool Still Image Capacity 60	Media Player Clip Length in 1080 HD 600 frames.	Media Pool Audio File Format WAV, MP3 and AIFF.

Display

Front panel
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.

Processing

Processing Delay
< 10 lines.

Audio Mixer

156 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

None

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.

Operating Systems

Mac 11.1 Big Sur,
Mac 12.0 Monterey or later.



Windows 10 and 11.

Power Requirements**Power Supply**

2 x Internal 100 - 240 AC.

Power Usage

147W estimated.

Physical Specifications

Physical Installation

Physical Installation

2 Rack Unit Size.

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

What's Included

AEM 4 M/E Constellation HD

Welcome wallet with QR code for software download

Warranty

12 Month Limited Manufacturer's Warranty.

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