

ATEM 1 M/E Constellation 4K



ATEM 1 M/E Constellation 4K is a powerful 1 M/E Ultra HD live production switcher. It features 10 standards converted 12G-SDI inputs, 6 12G-SDI aux outputs, DVE, 4 ATEM Advanced Keyers, a 16 way multiview, media players and USB webcam output. You even get built in talkback and a professional 28 channel Fairlight audio mixer with EQ and dynamics!

\$1,975

Connections

Total Video Inputs

10

Total Video Outputs

6

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

8 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 10 inputs.

Frame Rate and Format Converters

On all 10 inputs.

SDI Aux Outputs

Any of the 6 SDI outputs.

SDI Preview Outputs

Any of the 6 SDI outputs.

SDI Program Outputs

Any of the 6 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

1 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

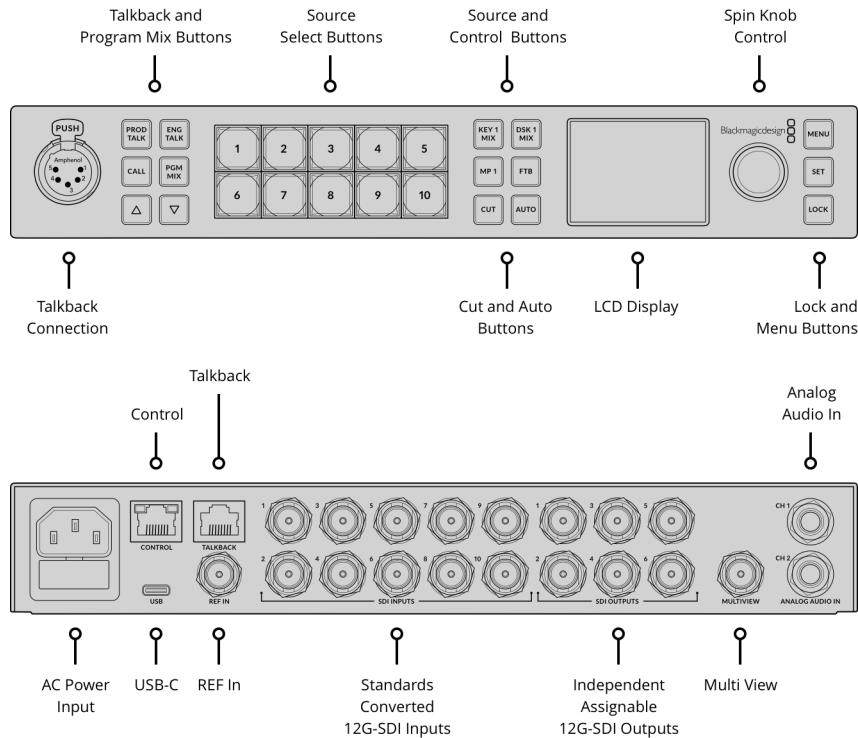
Added via ethernet connection to
Blackmagic Design GPI and Tally
Interface product. (Not included).

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 Keyers

4

Downstream Keyers

1

Advanced Chroma Keyers

4

DVEs

1

Linear/Luma Keyers

5

Transition Keyer (Stinger/DVE)

1 Stinger, 1 DVE.

Total Number of Layers

7

Pattern Generators

5

Color Generators

2

Control Panel Front fascia emergency switching, software or optional hardware panel.	Windows Source Labels Yes	Talkback Support Yes
Routable Windows 16	Tally Red for program and green for preview indication.	Mix Minus Support Yes

Multi View Monitoring

Multi View Monitoring 1 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.	Multi View Video Standard HD or Ultra HD
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Media Player

Media Players 2	Media Player Clip Length in 720 HD 1600 frames.	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 1080 HD 800 frames.	Media Pool Video File Format TGA Sequence.
Media Pool Still Image Capacity 20	Media Player Clip Length in 2160 UHD 200 frames.	Media Pool Audio File Format WAV, MP3 and AIFF.
Media Pool Clip Capacity 2 x up to 2160p60.		

Display

Front panel Built in 2.2 inch LCD monitor for video, 10 LED buttons for setup and emergency switching, 4 source buttons, 6 talkback selection and mix buttons, menu control knob and set button, front panel lock button.

Processing

Processing Delay < 10 lines.
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Audio Mixer 28 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 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 14.0 Sonoma,
Mac 15.0 Sequoia or later.



Windows 10 and 11.

Power Requirements

Power Supply 1 x Internal 100 - 240 AC.	Power Usage 90 W
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Physical Specifications



Physical Installation

Physical Installation

2/3 rack unit width, 1 rack unit height.

Optional Accessories

Teranex Mini Rack Shelf

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 1 M/E Constellation 4K

Welcome wallet with QR code for software download

Warranty

1 Year Limited Manufacturer's Warranty.

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