

# 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!

21 000 kr

## 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.

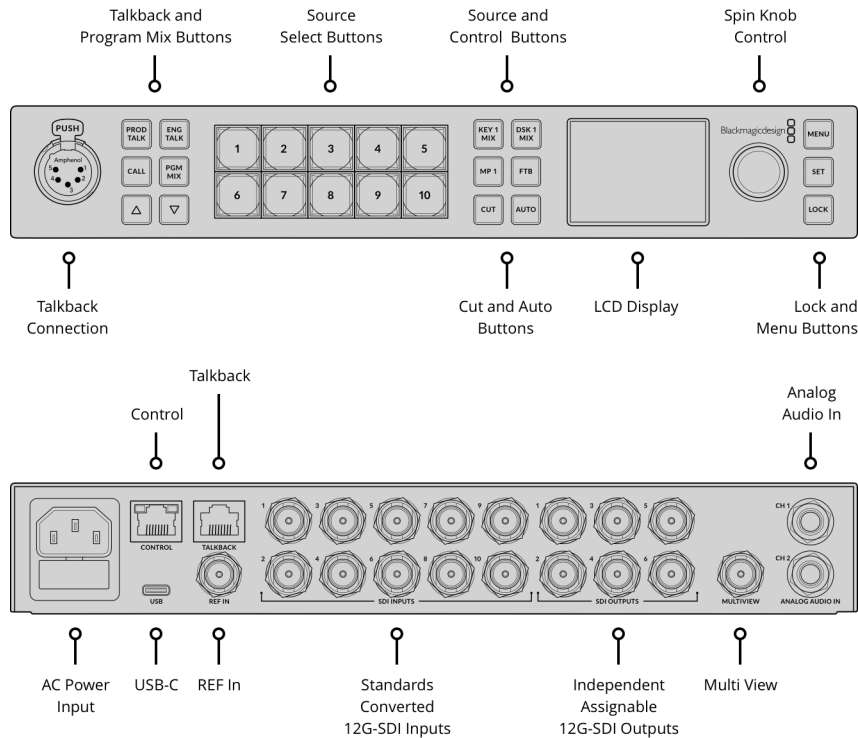
**Internal Timecode Generator**  
Yes

**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

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

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## Multi View Monitoring

<b>Multi View Monitoring</b> 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.	<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> 1600 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> 800 frames.	<b>Media Pool Video File Format</b> TGA Sequence.
<b>Media Pool Still Image Capacity</b> 20	<b>Media Player Clip Length in 2160 UHD</b> 200 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

<b>Front panel</b> 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.
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## Processing

<b>Processing Delay</b> < 10 lines.
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<b>Audio Mixer</b> 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.	<b>Down Conversion</b> 1 x selectable HD down converted output
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Software

<b>Control Panel Included</b> ATEM Software Control included free for Mac 13.0 Ventura, Mac 14.0 Sonoma or later and Windows 10 or 11.	<b>Software Updates</b> Using USB or Ethernet connection directly connected to Mac OS or Windows computers. Includes ATEM Setup Utility.	<b>Configuration</b> 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

<b>Power Supply</b> 1 x Internal 100 - 240 AC.	<b>Power Usage</b> 90 W
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Physical Specifications



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## Physical Installation

### Physical Installation

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

### Optional Accessories

Teranex Mini Rack Shelf

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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 1 M/E Constellation 4K

Welcome wallet with QR code for software download

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## Warranty

1 Year Limited Manufacturer's Warranty.

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