

# ATEM 4 M/E Constellation 4K



ATEM 4 M/E Constellation 4K is a massive 4 M/E Ultra HD live production switcher. It features 40 standards converted 12G-SDI inputs, 24 12G-SDI aux outputs, 4 DVEs, 16 ATEM Advanced Chroma Keyers, 4 media players, 4 independent Ultra HD multiviews, 2 SuperSource processors and more. You even get built in talkback and a professional 156 channel Fairlight audio mixer with EQ and dynamics!

**\$9,895**

## Connections

### Total Video Inputs

40

### Total Video Outputs

28

### Total Aux Outputs

24

### SDI Rates

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

### 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.

### 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 Video Inputs

40 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

28 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 24 SDI outputs.

### Down Converted SDI Program Output

1

### SDI Preview Outputs

Any of the 24 SDI outputs.

### SDI Multi View Outputs

4

### HDMI Multi View Outputs

None

### Webcam Output

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

### Talkback

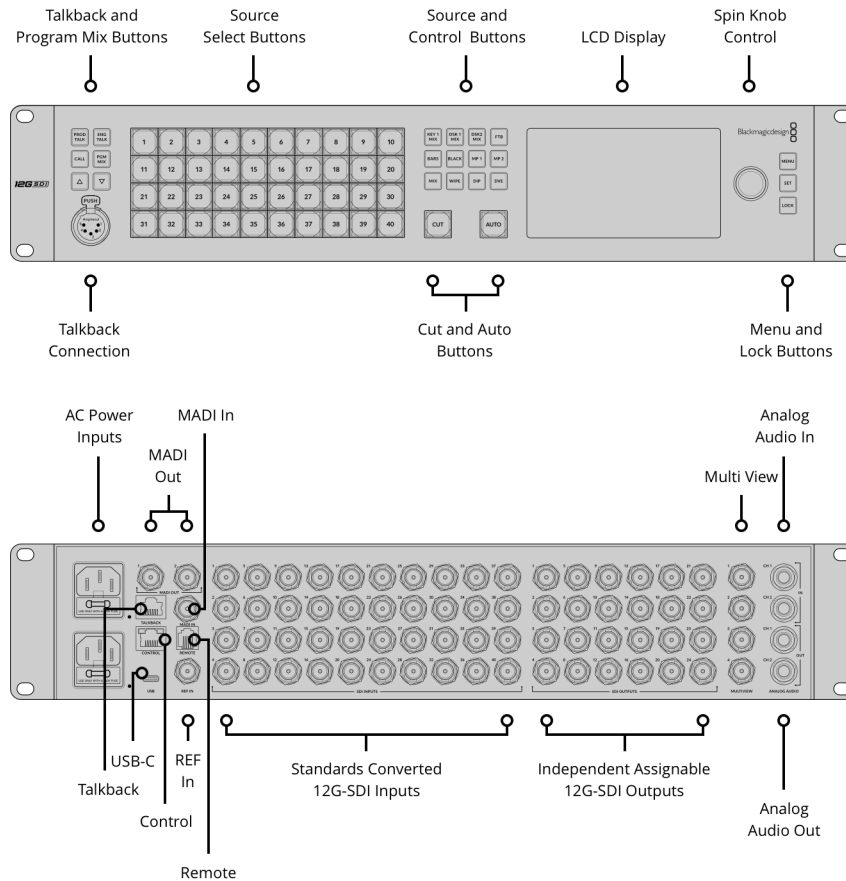
RJ45 for 3rd party talkback systems.

## Tally Output

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

## Computer Interface

1 x USB-C port.



## 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,  
SMPTE 2082-12.

### 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 and level B 3G-SDI, 6G-SDI and 12G-SDI.

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## Product Specifics

### Upstream Keyers

16

### Downstream Keyers

4

### Advanced Chroma Keyers

16

### SuperSource

2

### Talkback Support

Yes

### Mix Minus Support

Yes

### Linear/Luma Keyers

21

### Transition Keyer (Stinger/DVE)

4 Stinger, 4 DVE.

### Total Number of Layers

28

### Pattern Generators

21

### Color Generators

2

### DVEs

4

### Control Panel

Front fascia emergency switching, software or optional hardware panel.

### Routable Windows

64

### Tally

Red for program and green for preview indication.

### Windows Source Labels

Yes

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## Multi View Monitoring

### Multi View Monitoring

4 x 16 Multi View pattern options for up to 64 total views.

### Multi View Video Standard

Select HD or Ultra HD.

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## Media Player

### Media Players

4

### Channels

Fill and key for each media player.

### Media Pool Still Image Capacity

64

### Media Pool Clip Capacity

4

### Media Player Clip Length in 720 HD

3200 frames.

### Media Player Clip Length in 1080 HD

1600 frames.

### Media Player Clip Length in Ultra HD

400 frames.

### Media Pool Still Image Format

PNG, TGA, BMP, GIF, JPEG and TIFF.

### Media Pool Video File Format

TGA Sequence.

### Media Pool Audio File Format

WAV, MP3 and AIFF.

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## Display

### Interface

Minimum monitor resolution of 1366 x 768.

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### 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

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

1 x selectable HD down converted output

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### Software

#### Control Panel Included

ATEM Software Control Panel included free for Mac 12.0 Monterey, Mac 13.0 Ventura 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.

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### Power Requirements

#### Power Supply

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

#### Power Usage

255 W

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## Physical Specifications



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## Physical Installation

### Physical Installation

2 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

Welcome wallet with QR code for software download

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## Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller