

ATEM 4 M/E Constellation 4K Plus



\$15,465

ATEM 4 M/E Constellation 4K Plus is a massive 4 M/E Ultra HD live production switcher. It features 80 standards converted 12G-SDI inputs, 48 12G-SDI aux outputs, 4 DVEs, 16 ATEM Advanced Chroma Keyers, 4 media players, 4 independent Ultra HD multi-views, 2 SuperSource processors and more. You even get built in talkback and a professional 156 channel Fairlight audio mixer with EQ and dynamics!

Connections

Total Video Inputs

80

Total Video Outputs

52

Total Aux Outputs

48

SDI Rates

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

Total Audio Inputs

2 x balanced 1/4 inch jack,
2 x 64 channel BNC MADI in,
1 x 5-pin XLR Talkback.

Total Audio Outputs

2 x balanced 1/4 inch jack,
4 x 64 channel BNC MADI out,
1 x 5-pin XLR Talkback.

Timecode Connections

1 x 3-pin XLR Timecode In,
1 x 3-pin XLR Timecode Out.

Reference Input

Tri-Sync or Black Burst.

Video Input Re-Sync

On all 80 inputs.

Frame Rate and Format Converters

On all 80 inputs.

SDI Video Inputs

80 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

52 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 48 SDI outputs.

Down Converted SDI Program

Outputs

8

SDI Preview Outputs

Any of the 48 SDI outputs

SDI Multi View Outputs

4 x dedicated outputs,
Up to an extra 48 routable outputs.

HDMI Multi View Outputs

None

Webcam Output

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

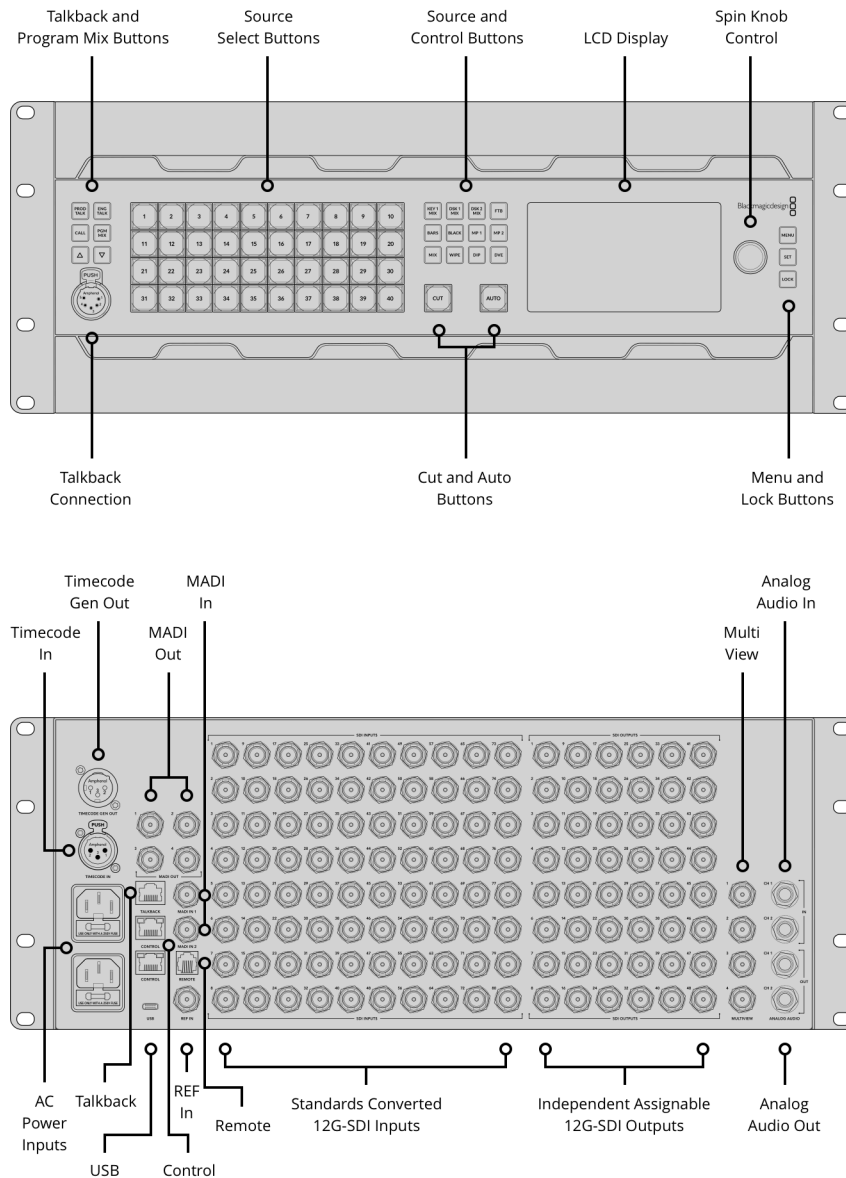
RJ45 for 3rd party talkback systems.

Tally Output

Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).
On any of the 48 SDI Outputs.

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	Linear/Luma Keyers 20	Control Panel Front fascia emergency switching, software or optional hardware panel.
Downstream Keyers 4	Transition Keyer (Stinger/DVE) 4 Stinger, 4 DVE.	Routable Windows 64
Advanced Chroma Keyers 16	Total Number of Layers 28	Tally Red for program and green for preview indication.
SuperSource 2	Pattern Generators 21	Windows Source Labels Yes
Talkback Support Yes	Color Generators 2	
Mix Minus Support Yes	DVEs 4	

Multi View Monitoring

Multi View Monitoring 4 x 16 Multiview 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	Media Player Clip Length in 720 HD 3200 frames	Media Pool Video File Format TGA Sequence.
Channels Fill and key for each media player.	Media Player Clip Length in 1080 HD 1600 frames	Media Pool Audio File Format WAV, MP3 and AIFF.
Media Pool Still Image Capacity 64	Media Player Clip Length in Ultra HD 400 frames	
Media Pool Clip Capacity 4	Media Pool Still Image Format PNG, TGA, BMP, GIF, JPEG and TIFF.	

Display

Interface

Minimum monitor resolution of 1366 x 768.

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.

Processing

Processing Delay

< 10 lines.

Audio Mixer

298 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.

Software

Control Panel Included

ATEM Software Control Panel included free for macOS 14.0 Sonoma, macOS 15.0 Sequoia 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.

Operating Systems



Mac 14.0 Sonoma,
Mac 15.0 Sequoia or later.



Windows 10 and 11.
Windows 11 for ARM

Power Requirements

Power Supply

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

Power Usage

400 W max.

Physical Specifications



Physical Installation

Physical Installation

4 rack units height.

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 4 M/E Constellation 4K Plus
Welcome wallet with QR code for software download

Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller