

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! \$8,995

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 2 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 2 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 None **SDI Preview Outputs** Any of the 24 SDI outputs.

SDI Multi View Outputs

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

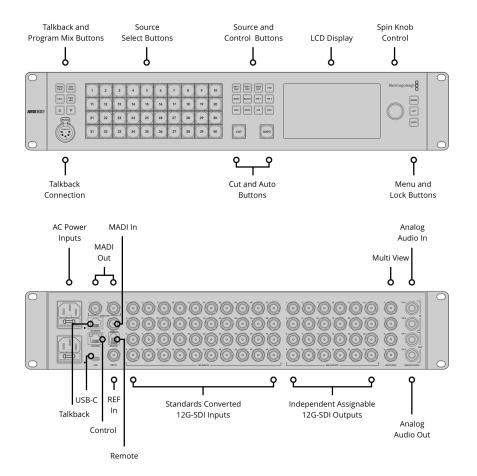
Talkback RJ45 for 3rd party talkback systems.

Tally Output

Computer Interface

1 x USB-C port.

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



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.

Product Specifics

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

Multi View Monitoring

Multi View Monitoring	Multi View Video Standard
4 x 16 Multi View pattern options for	Select HD or Ultra HD.
up to 64 total views.	

Media Player

Media Players	Media Player Clip Length in 720 HD	Media Pool Video File Format
4	3200 frames.	TGA Sequence.
Channels	Media Player Clip Length in 1080 HD	Media Pool Audio File Format
Fill and key for each media player.	1600 frames.	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

TBA

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** TBA

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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-C 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-C to chassis.

Operating Systems



Mac 12.0 Monterey, Mac 13.0 Ventura or later.



Windows 10 and 11.

Power Requirements

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

Power Usage

Physical Specifications



Physical Installation

Physical Installation 2 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 Welcome wallet with QR code for software download

Warranty

12 Month Limited Manufacturer's Warranty.

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