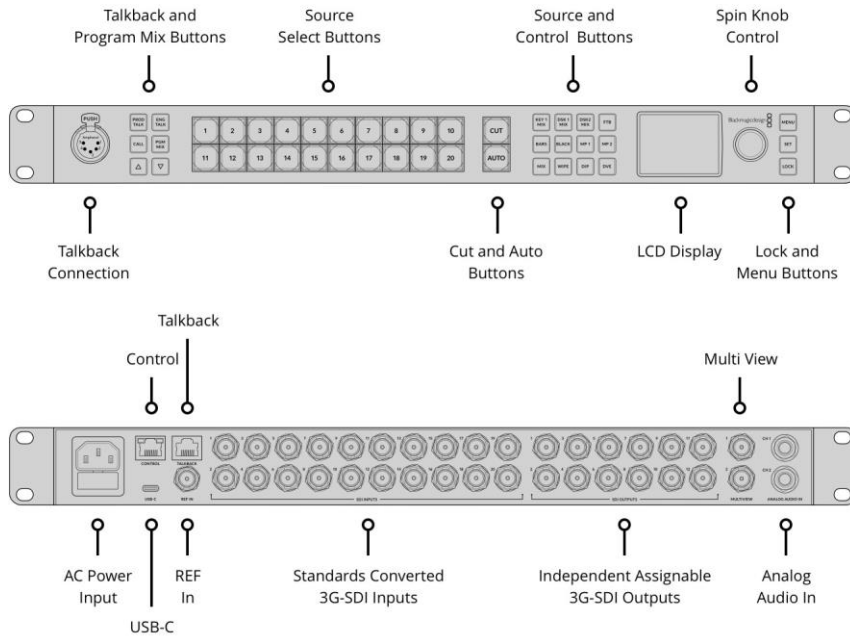


ATEM 2 M/E Constellation HD



ATEM 2 M/E Constellation HD is a high definition live production switcher packed with advanced features! The 2 M/E design includes 20 standards converted 3G-SDI inputs and 12 independent 3G-SDI aux outputs! It also includes a USB webcam output, SuperSource processor, DVEs, chroma keyers, media players, multiviews and more! You even get built in talkback and a professional built in Fairlight audio mixer with EQ and dynamics!

Connections	Reference Input Tri-Sync or Black Burst.	Total Multi Views 2 x 3G-SDI
Total Video Inputs 20	Video Input Re-Sync On all 20 inputs.	Control Panel Connection Ethernet. Direct connection between panel and chassis, or via network.
Total Video Outputs 12	Frame Rate and Format Converters On all 20 inputs.	Internal Timecode Generator Yes
SDI Rates 1.5G, 3G	SDI Aux Outputs Any of the 12 SDI outputs.	Talkback RJ45 for 3rd party talkback systems.
Total Audio Inputs 2 x balanced 1/4 inch Jack, 1 x 5 pin XLR Talkback.	SDI Preview Outputs Any of the 12 SDI outputs.	Tally Output Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).
Total Audio Outputs 1 x 5 pin XLR Talkback.	SDI Program Outputs Any of the 12 SDI outputs.	Ethernet Supports 10/100/1000 BASE-T.
SDI Audio Inputs 2 Ch embedded audio on all SDI inputs.	Down Converted SDI Program Output None	Computer Interface 1 x USB-C supports USB 3.1 Gen 1 (5Gb/s)
SDI Audio Outputs 2 Ch embedded audio on all SDI outputs.	Webcam Output 1 x USB-C supporting 720p or 1080p at PGM frame rate.	
Timecode Connections None		



Standards Product Specifics

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

Upstream Keys

8

Downstream Keys

2

software or optional hardware panel.

Advanced Chroma Keys

8

32

SuperSource

1

Red for program and green for

Talkback Support

Yes

SDI Compliance

SMPTE 292M, SMPTE 296M, SMPTE
 424M, SMPTE 425M level A and B.

Video Sampling

4:2:2

Mix Minus Support

Yes

Linear/Luma Keys

11

Transition Keyer (Stinger/DVE)

2 Stinger, 2 DVE.

Total Number of Layers

15

Pattern Generators

11

Color Precision

10-bit.

Color Space

REC 709

SDI Auto Switching

Automatically detects between 1.5GSDI
 and level A or level B 3G-SDI.

Color Generators

2

Control Panel

Front fascia emergency switching,

Routeable Windows

Tally

preview indication.

Multi View Monitoring

Multi View Monitoring

2 x multi views each configurable to 16, 13, 10, 7 or 4 up views. Includes monitoring of Program, Preview, Inputs, Media Players, M/Es, DSKs, SuperSource, Clean Feed with optional labels and audio meters.

Multi View Video Standard

HD

Display Minimum Resolution

1366 x 768

Media Player

Media Players 2

Channels

Fill and key for each media player.

Media Pool Still Image Capacity 60

Media Pool Clip Capacity 2 x

up to 1080p60.

Media Player Clip Length in 720 HD 800

frames.

Media Player Clip Length in 1080 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.

Display

Front panel

Built in 2.2 inch LCD monitor for video, 22 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

48 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

None

Software

Control Panel Included

ATEM Software Control Panel included free for Mac 11.11 Big Sur, Mac 12 Monterey or later and Windows 10 or 11.

Software Updates

Using USB or Ethernet 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 to chassis.

Operating Systems



Mac 11.1 Big Sur,
Mac 12.0 Monterey or later.



Windows 10 and 11.

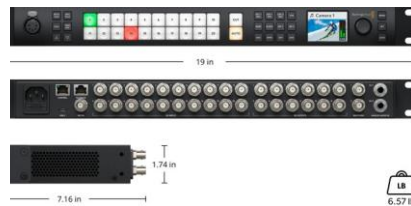
Power Requirements

Power Supply

x Internal 100 - 240 AC.

Power Usage 52W

Physical Specifications



Physical Installation

Physical Installation 1

Rack Unit Size.

Environmental Specifications

0° to 40° C (32° to 104° F)

-20° to 60° C (-4° to 140° F)

Operating Temperature

Storage Temperature

Relative Humidity 0% to 90% non-condensing

What's Included

AEM 2 M/E Constellation HD

Welcome wallet with QR code for software download

Warranty

12 Month Limited Manufacturer's Warranty.

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