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!

$1,695

Connections

Total Video Inputs
20

Total Video Outputs
12

SDI Rates
1.5G, 3G

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
2 Ch embedded audio on all SDI inputs.

SDI Audio Outputs
2 Ch embedded audio on all SDI outputs.

Timecode Connections
None

Reference Input
Tri-Sync or Black Burst.

Video Input Re-Sync
On all 20 inputs.

Frame Rate and Format Converters
On all 20 inputs.

SDI Aux Outputs
Any of the 12 SDI outputs.

SDI Preview Outputs
Any of the 12 SDI outputs.

SDI Program Outputs
Any of the 12 SDI outputs.

Down Converted SDI Program Output
None

Webcam Output
1 x USB-C supporting 720p or 1080p at PGM frame rate.

Total Multi Views
2 x 3G-SDI

Control Panel Connection
Ethernet. Direct connection between panel and chassis, or via network.

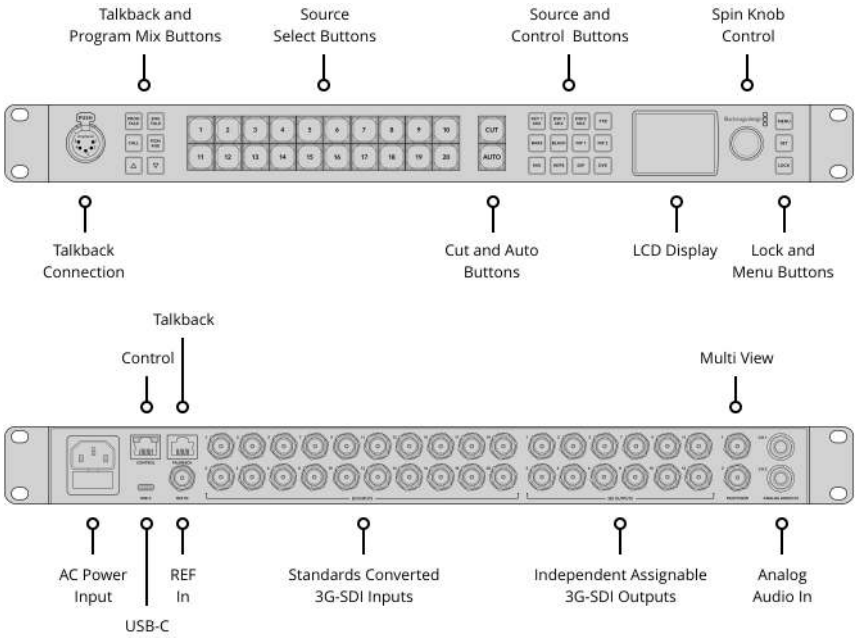
Internal Timecode Generator
Yes

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 3.1 Gen 1 (5Gb/s)



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

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

Video Sampling
4:2:2

Color Precision
10-bit.

Color Space
REC 709

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

Product Specifics

Upstream Keyers
8

Downstream Keyers
2

Advanced Chroma Keyers
8

SuperSource
1

Talkback Support
Yes

Mix Minus Support
Yes

Linear/Luma Keyers
11

Transition Keyer (Stinger/DVE)
2 Stinger, 2 DVE.

Total Number of Layers
15

Pattern Generators
11

Color Generators
2

Control Panel
Front fascia emergency switching, software or optional hardware panel.

Routable Windows
32

Tally
Red for program and green for preview indication.

Windows Source Labels
Yes

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.

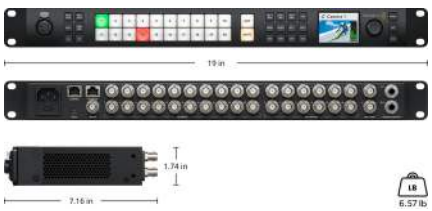
Windows 10 and 11.

Power Requirements

Power Supply
1 x Internal 100 - 240 AC.

Power Usage
52W

Physical Specifications



Physical Installation

Physical Installation
1 Rack Unit Size.

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 2 M/E Constellation HD
Welcome wallet with QR code for software download

Warranty

12 Month Limited Manufacturer's Warranty.

All items on this website are copyright Blackmagic Design Pty. Ltd. 2022, all rights reserved. All trademarks are property of their respective owners. MSRP includes duties, but excludes sales tax and shipping costs. This website uses remarketing services to advertise on third party websites to previous visitors to our site. You can opt out at any time by changing cookie settings. Privacy Policy

Blackmagic Design Authorized Reseller