

## 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

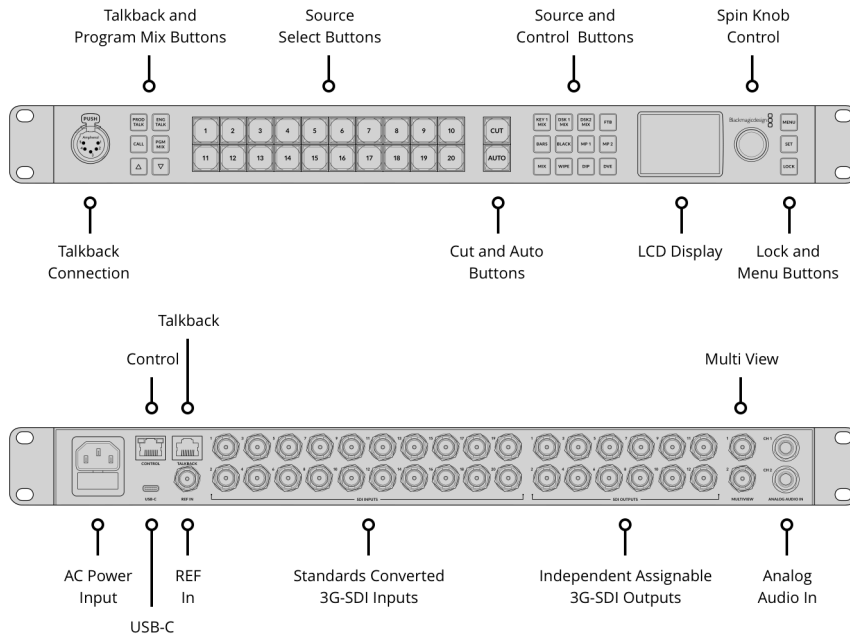
Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).

#### 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 Keys

8

### Downstream Keys

2

### Advanced Chroma Keys

8

### SuperSource

1

### Talkback Support

Yes

### 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 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

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## 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

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## Media Player

### Media Players

2

### Media Pool Clip Capacity

2 x up to 1080p60.

### Media Pool Still Image Format

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

### Channels

Fill and key for each media player.

### Media Player Clip Length in 720 HD

800 frames.

### Media Pool Video File Format

TGA Sequence.

### Media Pool Still Image Capacity

60

### Media Player Clip Length in 1080 HD

400 frames.

### Media Pool Audio File Format

WAV, MP3 and AIFF.

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## 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.

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## 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

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## 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.

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## Operating Systems



Mac 11.1 Big Sur,  
Mac 12.0 Monterey or later.



Windows 10 and 11.

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## Power Requirements

### Power Supply

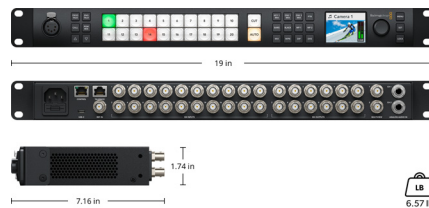
1 x Internal 100 - 240 AC.

### Power Usage

52W

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## Physical Specifications



## Physical Installation

### Physical Installation

1 Rack Unit Size.

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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 2 M/E Constellation HD

Welcome wallet with QR code for software download

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## Warranty

12 Month Limited Manufacturer's Warranty.

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