

# ATEM 1 M/E Constellation HD



ATEM 1 M/E Constellation HD is a high definition live production switcher packed with advanced features! The single M/E design includes 10 standards converted 3G-SDI inputs and 6 independent 3G-SDI aux outputs! It also includes a USB webcam output, DVE, chroma keyers, media players, multiview and more!

**\$995**

## Connections

### Total Video Inputs

10

### Total Video Outputs

6

### 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 10 inputs.

### Frame Rate and Format Converters

On all 10 inputs.

### SDI Aux Outputs

Any of the 6 SDI outputs.

### SDI Preview Outputs

Any of the 6 SDI outputs.

### SDI Program Outputs

Any of the 6 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

1 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

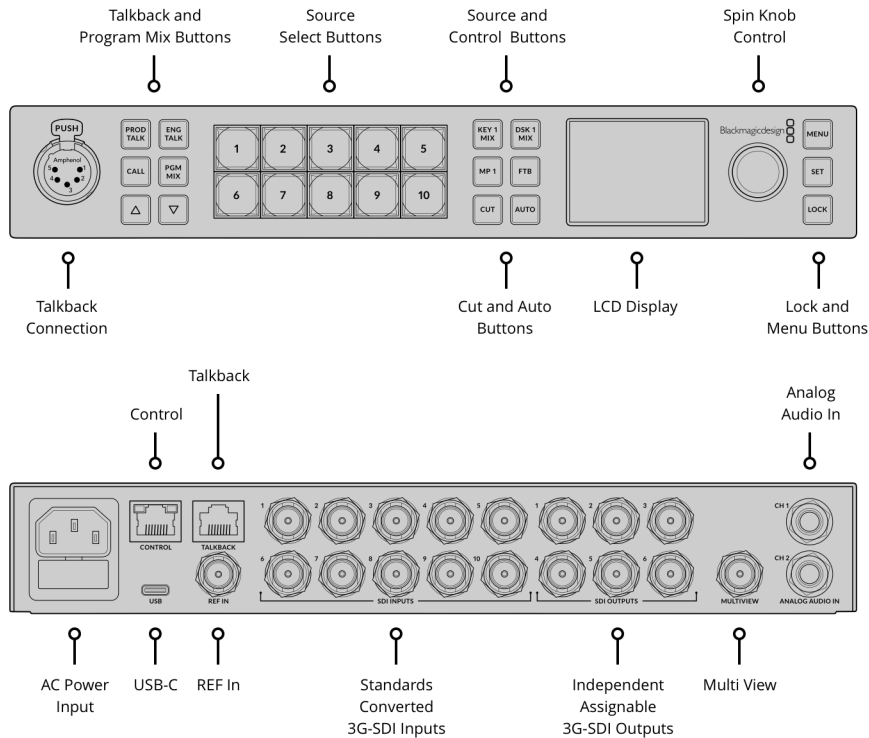
Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).

### 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

4

### Mix Minus Support

Yes

### Pattern Generators

5

### Downstream Keys

1

### Linear/Luma Keys

5

### Color Generators

2

### Advanced Chroma Keys

4

### Transition Keyer (Stinger/DVE)

1 Stinger, 1 DVE.

### Control Panel

Front fascia emergency switching, software or optional hardware panel.

### Talkback Support

Yes

### Total Number of Layers

7

### Routable Windows

16

<b>Tally</b> Red for program and green for preview indication.	<b>Windows Source Labels</b> Yes
---	-------------------------------------

---

## Multi View Monitoring

<b>Multi View Monitoring</b> 1 x multi view configurable to 16, 13, 10, 7 or 4 up view. Includes monitoring of Program, Preview, Inputs, Media Players, DSK, Clean Feed with optional labels and audio meters.	<b>Multi View Video Standard</b> HD  <b>Display Minimum Resolution</b> 1366 x 768
---	---

---

## Media Player

<b>Media Players</b> 2	<b>Media Pool Clip Capacity</b> 2 x up to 1080p60.	<b>Media Pool Still Image Format</b> PNG, TGA, BMP, GIF, JPEG and TIFF.
<b>Channels</b> Fill and key for each media player.	<b>Media Player Clip Length in 720 HD</b> 400 frames.	<b>Media Pool Video File Format</b> TGA Sequence.
<b>Media Pool Still Image Capacity</b> 20	<b>Media Player Clip Length in 1080 HD</b> 200 frames.	<b>Media Pool Audio File Format</b> WAV, MP3 and AIFF.

---

## Display

### Front panel

Built in 2.2 inch LCD monitor for video, 10 LED buttons for setup and emergency switching, 4 source buttons, 6 talkback selection and mix buttons, menu control knob and set button, front panel lock button.

---

## Processing

<b>Processing Delay</b> < 10 lines.	<b>Audio Mixer</b> 28 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.	<b>Down Conversion</b> 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

36W

---

## Physical Specifications



## Physical Installation

### Physical Installation

2/3 rack unit width, 1 rack unit height.

### Optional Accessories

Teranex Mini Rack Shelf

---

---

## 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 1 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