

# 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!

£835

## 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

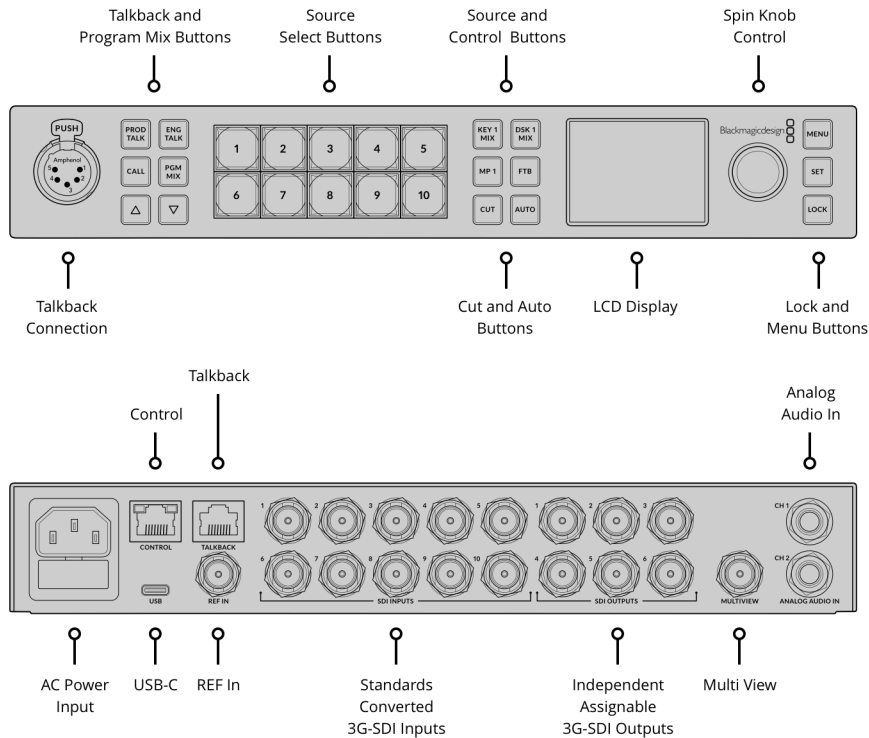
Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).

### Ethernet

Supports 10/100/1000 BASE-T.

### Computer Interface

1 x USB-C supports USB 2.0



## 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
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## 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
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## 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.

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## 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.

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## 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
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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

36W

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## Physical Specifications



## Physical Installation

### Physical Installation

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

### Optional Accessories

Teranex Mini Rack Shelf

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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

AEM 1 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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