

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!

\$1,095

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

8 Ch embedded audio on all SDI inputs.

SDI Audio Outputs

16 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

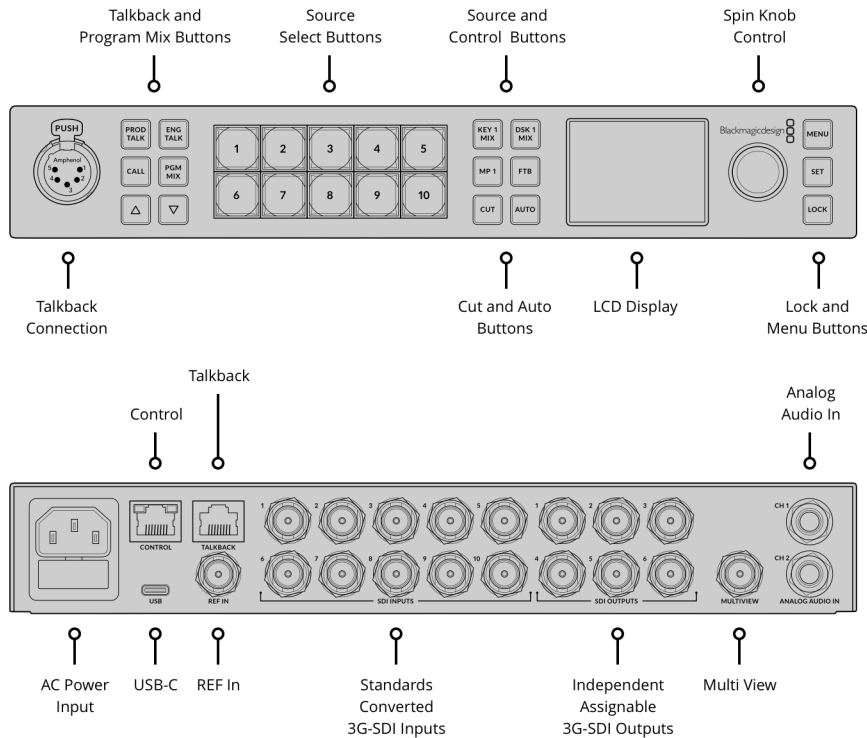
Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).

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, Rec. 2020

SDI Auto Switching

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

Product Specifics

Upstream Keyers

4

Downstream Keyers

1

Advanced Chroma Keyers

4

Talkback Support

Yes

Mix Minus Support

Yes

Linear/Luma Keyers

5

Transition Keyer (Stinger/DVE)

1 Stinger, 1 DVE.

Total Number of Layers

7

Pattern Generators

5

Color Generators

2

Control Panel

Front fascia emergency switching,
software or optional hardware panel.

Routable Windows

16

Tally Red for program and green for preview indication.	Windows Source Labels Yes
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Multi View Monitoring

Multi View Monitoring 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.	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 400 frames.	Media Pool Video File Format TGA Sequence.
Media Pool Still Image Capacity 20	Media Player Clip Length in 1080 HD 200 frames.	Media Pool Audio File Format 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

Processing Delay < 10 lines.	Audio Mixer 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.	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 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 14.0 Sonoma,
Mac 15.0 Sequoia 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

Blackmagic Universal 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

1 Year Limited Manufacturer's Warranty.

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