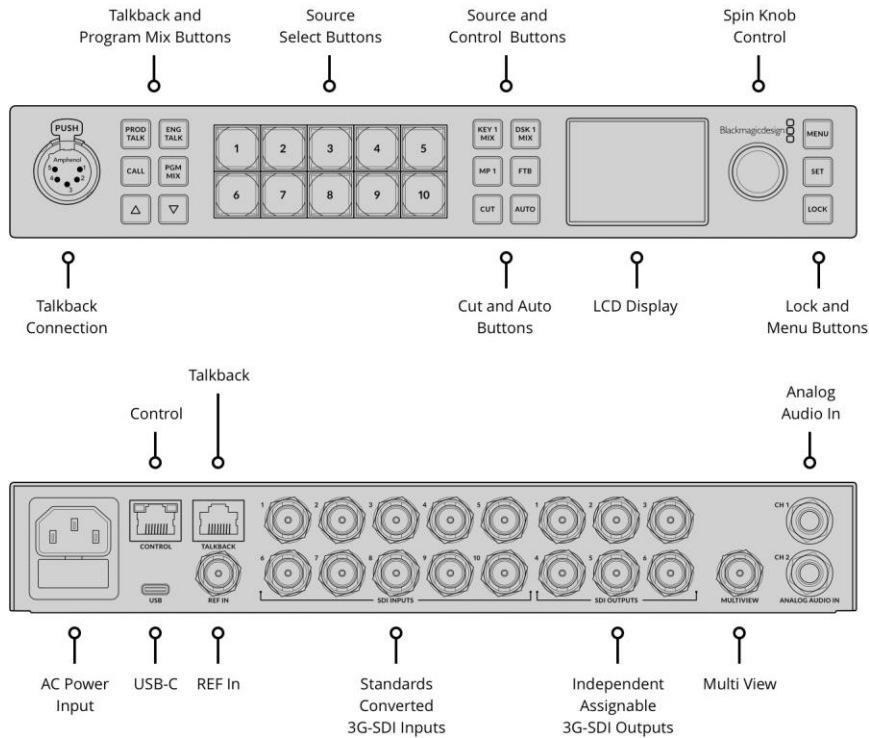


ATEM 1 M/E Constellation HD



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!

<p>Connections</p>	<p>Reference Input Tri-Sync or Black Burst.</p>	<p>Total Multi Views 1 x 3G-SDI</p>
<p>Total Video Inputs 10</p>	<p>Video Input Re-Sync On all 10 inputs.</p>	<p>Control Panel Connection Ethernet. Direct connection between panel and chassis, or via network.</p>
<p>Total Video Outputs 6</p>	<p>Frame Rate and Format Converters On all 10 inputs.</p>	<p>Internal Timecode Generator Yes</p>
<p>SDI Rates 1.5G, 3G</p>	<p>SDI Aux Outputs Any of the 6 SDI outputs.</p>	<p>Talkback RJ45 for 3rd party talkback systems.</p>
<p>Total Audio Inputs 2 x balanced 1/4 inch Jack, 1 x 5 pin XLR Talkback.</p>	<p>SDI Preview Outputs Any of the 6 SDI outputs.</p>	<p>Tally Output Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).</p>
<p>Total Audio Outputs 1 x 5 pin XLR Talkback.</p>	<p>SDI Program Outputs Any of the 6 SDI outputs.</p>	<p>Ethernet Supports 10/100/1000 BASE-T.</p>
<p>SDI Audio Inputs 2 Ch embedded audio on all SDI inputs.</p>	<p>Down Converted SDI Program Output None</p>	<p>Computer Interface 1 x USB-C supports USB 3.1 Gen 1 (5Gb/s)</p>
<p>SDI Audio Outputs 2 Ch embedded audio on all SDI outputs.</p>	<p>Webcam Output 1 x USB-C supporting 720p or 1080p at PGM frame rate.</p>	
<p>Timecode Connections None</p>		



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 1.5GSDI
 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)

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.

Routeable Windows

16

Tally

Red for program and green for preview indication.

Windows Source Labels Yes

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

Media Player**Media Players** 2**Channels**

Fill and key for each media player.

Media Pool Still Image Capacity 20**Media Pool Clip Capacity** 2 x

up to 1080p60.

Media Player Clip Length in 720 HD 400

frames.

Media Player Clip Length in 1080 HD 200

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, 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-FollowVideo.
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
36W

Physical Specifications

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



Physical Installation

Physical Installation

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

Optional Accessories

Teranex Mini Rack Shelf

Warranty

12 Month Limited Manufacturer's Warranty.

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