

# 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** 

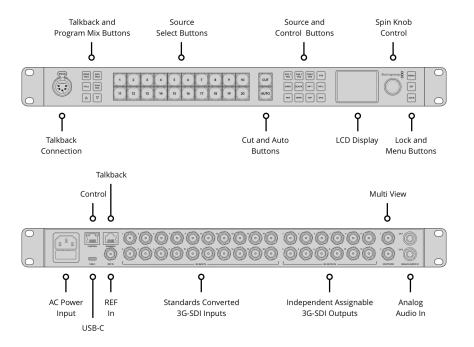
Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included).

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 Keyers**

8

## **Downstream Keyers**

2

## **Advanced Chroma Keyers**

8

## SuperSource

1

#### Talkback Support

Yes

## Mix Minus Support

Yes

## Linear/Luma Keyers

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

# 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

# Media Player

#### Media Players

2

#### Channels

Fill and key for each media player.

# Media Pool Still Image Capacity

40

## **Media Pool Clip Capacity**

2 x up to 1080p60.

# Media Player Clip Length in 720 HD

800 frames.

## Media Player Clip Length in 1080 HD

400 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, 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.

# Processing

## **Processing Delay**

< 10 lines.

#### **Audio Mixer**

48 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**

52W

# **Physical Specifications**



# Physical Installation

## **Physical Installation**

1 Rack Unit Size.

# **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 2 M/E Constellation HD Welcome wallet with QR code for software download
Warranty
12 Month Limited Manufacturer's Warranty.
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