

## ATEM CONSTELLATION 8K

Blackmagicdesign



Ultra HD live production switcher with so many features, you can combine them all to make an incredibly powerful 8K switcher! This massive 4 M/E switcher features 40 12G-SDI inputs, 24 12G-SDI aux outputs, 4 DVEs, 16 ATEM Advanced Chroma Keyers, 4 media players, 4 independent Ultra HD multi viewers, 2 SuperSource processors and even standards conversion on all inputs! When switched to work in 8K, all of these features are be combined to make a powerful native 8K switcher! You even get built in talkback and a professional 156 channel Fairlight audio mixer with EQ and dynamics!

**Cena:**

**Kategorie:** [Video](#), [Produkcja](#), [Miksery wizyjne](#), [Broadcast](#), [Miksery wizyjne](#)



## OPIS

### Connections

#### Total Video Inputs

40 x up to Ultra HD / 10 x in 8K

#### Total Video Outputs

28 x up to Ultra HD / 7 x in 8K

#### Total Aux Outputs

24 x up to Ultra HD / 6 x in 8K

#### SDI Rates

1.5G, 3G, 6G, 12G

#### Total Audio Inputs

2 x balanced 1/4 inch Jack, 1 x 32 stereo channel BNC MADI in.

#### Total Audio Outputs

2 x balanced 1/4 inch Jack, 2 x 32 stereo channel BNC MADI out.

#### Timecode Connections

None

#### Reference Input

Tri-Sync or Black Burst.

**Video Input Re-sync**

On all 40 inputs.

**Frame rate and format converters**

On all 40 inputs.

**SDI Video Inputs**

40 x 10-bit 720p, 1080i, 1080p, 2160p and 10 x 4320p switchable.

**Extra Audio Outputs**

1 x 5 pin XLR Talkback.

**SDI Audio Outputs**

2 Ch embedded into SDI output on all outputs.

**Extra Audio Inputs**

1 x 5 pin XLR Talkback.

**SDI Program Outputs**

Any of the 24 SDI outputs.

**Down Converted SDI Program Output**

None

**SDI Preview Outputs**

Any of the 24 SDI outputs.

**Total Multi Views**

4 x up to Ultra HD / 1 x in 8K

**SDI Multi View Outputs**

4

**HDMI Multi View Outputs**

None

**Control Panel Connection**

Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network.

**Internal Timecode Generator**

Yes

**Tally Output**

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

**Computer Interface**

1 x USB 2.0 port.

**Standards****SD Video Standards**

None

## **HD Video Standards**

720p50, 720p59.94

1080i50, 1080i59.94

1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p50, 1080p59.94

## **Ultra HD Video Standards**

2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94

## **8K Video Standards**

4320p23.98, 4320p24, 4320p25, 4320p29.97, 4320p50, 4320p59.94

## **SDI Compliance**

SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M Level A and B, SMPTE 2081-1, SMPTE 2081-10, SMPTE 2082-1 and SMPTE 2082-10, SMPTE 2082-12.

## **Video Sampling**

4:2:2

## **Color Precision**

10-bit.

## **Color Space**

REC 601, REC 709, REC 2020.

## **SDI Auto Switching**

Automatically detects between level A and level B 3G-SDI, 6G-SDI and 12G-SDI. Requires 2SI in 8K mode.

## Product Specifics

### Upstream Keyers

16 x up to Ultra HD / 4 x in 8K with Chroma/Linear/Luma key.

### Downstream Keyers

4 x up to Ultra HD / 2 x in 8K.

### Advanced Chroma Keyers

16 x up to Ultra HD / 4 x in 8K.

### Talkback Support

Yes

### Mix Minus Support

Yes

### Linear/Luma Keyers

21 x up to Ultra HD / 7 x in 8K

### Transition Keyer (Stinger/DVE)

4 Stinger, 4 DVE .

### Total Number of Layers

28 x up to Ultra HD / 7 x in 8K

### Pattern Generators

21 x up to Ultra HD / 9 x in 8K

## **Color Generators**

2

## **DVE with 3D Borders & Drop Shadow**

4 x up to Ultra HD / 1 x in 8K

## **Control Panel**

Front fascia emergency switching, software or optional hardware panel.

## **Routable Windows**

64 x up to Ultra HD / 16 x in 8K

## **Tally**

Red for program and green for preview indication.

## **Windows Source Labels**

Yes

## **Multi View Monitoring**

### **Multi View Monitoring**

4 x 16 Multi View pattern options for up to 64 total views.

### **Multi View Video Standard**

Select HD, Ultra HD or 8K.

## **Media Player**

**Media Players**

4 x up to Ultra HD / 1 x in 8K

**Channels**

Fill and key for each media player.

**Media Pool Still Image Capacity**

64 x up to Ultra HD / 24 x in 8K with fill and key.

**Media Pool Clip Capacity**

4 x up to Ultra HD / 2 x in 8K with fill and key.

**Media Player Clip Length in 720 HD**

3200 frames.

**Media Player Clip Length in 1080 HD**

1600 frames.

**Media Player Clip Length in Ultra HD**

400 frames.

**Media Player Clip Length in 8K**

100 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

### Interface

Minimum monitor resolution of 1366 x 768.

### Front panel

Built in HD LCD monitor for video, 42 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

< 7 lines in up to Ultra HD / in 10 lines in 8K

### Audio Mixer

- 156 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

## **Software**

### **Control Panel Included**

ATEM Software Control Panel included free for Mac 10.13 High Sierra, Mac 10.14 Mojave or later and Windows 8.1 64-bit or Windows 10 64-bit.

### **Software Updates**

Using USB 2.0 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 10.14 Mojave,  
Mac 10.15 Catalina or later.  
Windows 8.1 and 10, both 64-bit.

## **Power Requirements**

### **Power Supply**

2 x Internal 100 - 240 AC.

### **Power Usage**

300W

## **Physical Specifications**

### **Physical Installation**

#### **Physical Installation**

2 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**

AEM Constellation 8K

SD card with software and manual

## **Warranty**

12 Month Limited Manufacturer's Warranty.