

# ATEM Talkback Converter 4K



ATEM Talkback Converter 4K handles up to 8 cameras for SDI talkback using embedded audio channels 15 and 16 as used on the Blackmagic Studio Cameras and ATEM Camera Converter. Supports 12G-SDI for all SD, HD and Ultra HD formats up to 2160p60 and provides BNC connections to each camera, and an optical fiber socket for adding an optical fiber SFP module for extending camera distances when required. Includes push to talk buttons, support for tough and common aviation headsets, loop through for more than 8 camera support, built in speaker, front panel mic input and much more.

## Connections

### SDI Program Inputs

1 x 10-bit SD/HD/Ultra HD 4K auto switching program input from switcher, including tally information with 16 channel embedded audio.

### SDI Program Outputs

1 x 10-bit SD/HD/Ultra HD 4K auto switching program loop thru output connects to another ATEM Talkback Converter 4K.

### Talkback Audio

Aviation Headsets with 0.25" TRS headset connector and 0.206" TRS microphone connector. Front mounted balanced XLR microphone connector.

### Analog Audio

1 x stereo RCA monitoring output.

### SDI Camera Inputs

8 x 10-bit SD/HD/Ultra HD 4K auto switching 16 channel embedded audio.

### SDI Camera Outputs

8 x 10-bit SD/HD/Ultra HD 4K auto switching 16 channel embedded audio.

### SDI Outputs

8 x 10-bit SD/HD/Ultra HD 4K auto switching 16 channel embedded audio.

### Optical Fiber Video Inputs (Optional)

8 x single mode SD/HD/Ultra HD 4K auto switching camera inputs with LC connector.

### Optical Fiber Video Outputs (Optional)

8 x single mode SD/HD/Ultra HD 4K auto switching camera outputs with LC connector.

### Optical Fiber Audio Inputs

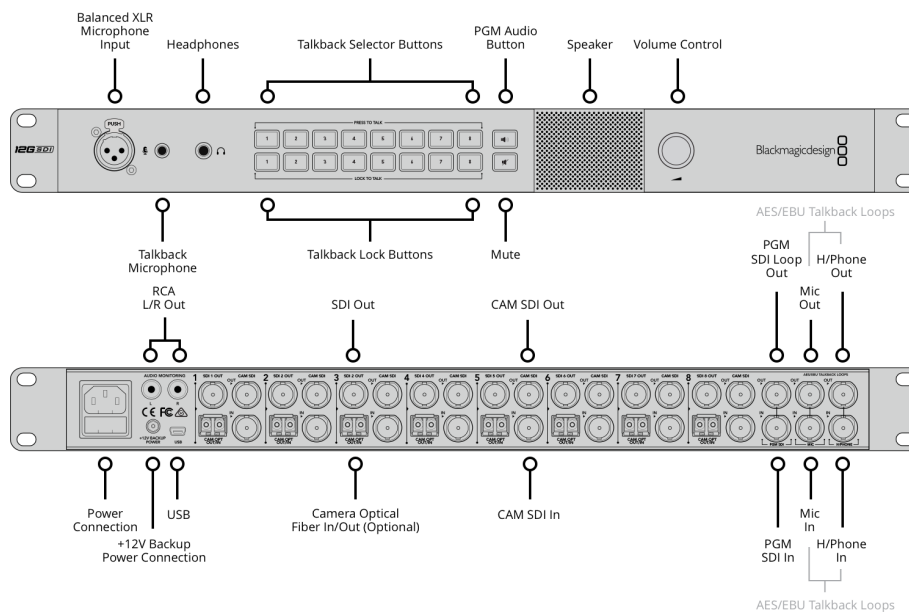
8 x single mode camera audio inputs with LC connector. Channels 1 and 2 are camera audio. Channels 15 and 16 are intercom audio.

### Optical Fiber Audio Outputs

8 x single mode camera audio outputs with LC connector. Channels 1 and 2 are camera audio. Channels 15 and 16 are intercom audio.

### Computer Interface

1 x mini-B type USB connector for firmware updates.



## Standards

### SD Video Standards

525i59.94 NTSC, 625i50 PAL

### HD Video Standards

720p50, 720p59.94, 720p60  
 1080p23.98, 1080p24, 1080p25,  
 1080p29.97, 1080p30, 1080p50,  
 1080p59.94, 1080p60  
 1080PsF23.98, 1080PsF24, 1080PsF25,  
 1080PsF29.97, 1080PsF30  
 1080i50, 1080i59.94, 1080i60

### 2K Video Standards

2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p  
 2K DCI 23.98PsF, 2K DCI 24PsF, 2K DCI  
 25PsF

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
 2160p29.97, 2160p30, 2160p50,  
 2160p59.94, 2160p60

### 4K Video Standards

4K DCI 23.98p, 4K DCI 24p, 4K DCI  
 25p, 4K DCI 29.97p, 4K DCI 30p, 4K  
 DCI 50p, 4K DCI 60p

### SDI Compliance

SMPTE 259M, SMPTE 292M,  
 SMPTE 296M, SMPTE 372M,  
 SMPTE 424M Level B, SMPTE 425M.

### Audio Sampling

Television standard sample rate of  
 48Khz, 24-bit A/D conversion.

### Video Sampling

4:2:2, 4:4:4

### Color Precision

10-bit

### Color Space

REC 601, REC 709.

### Multiple Rate Support

SDI switches between SD, HD and  
 Ultra HD 4K.

## Software

### Internal Software Upgrade

Via included updater application.

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## Operating Systems



Mac OS X 10.11 El Capitan, macOS Sierra or later.



Windows 8.1 or Windows 10.

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## Power Requirements

### Power Supply

110 - 240V AC input with redundant 12 - 31V DC input.

### Power Usage

60 Watts

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## Physical Specifications



## Physical Installation

### Physical Installation

1 rack unit size. Less than 6 inches deep.

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## Environmental Specifications

### Operating temperature

0° to 40° C (32° to 104° F)

### Storage temperature

-20° to 45° C (-4° to 113° F)

### Relative Humidity

0% to 90% non-condensing

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## What's Included

ATEM Talkback Converter 4K

SD card with software and manual

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## Warranty

### Product Warranty

3 Year Limited Manufacturer's Warranty.

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### Repair policy

Excluding connectors, cables, cooling fans, fiber optic modules, fuses and keyboards which will be free from defects in materials and workmanship for a period of 12 months from the date of purchase.

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