

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

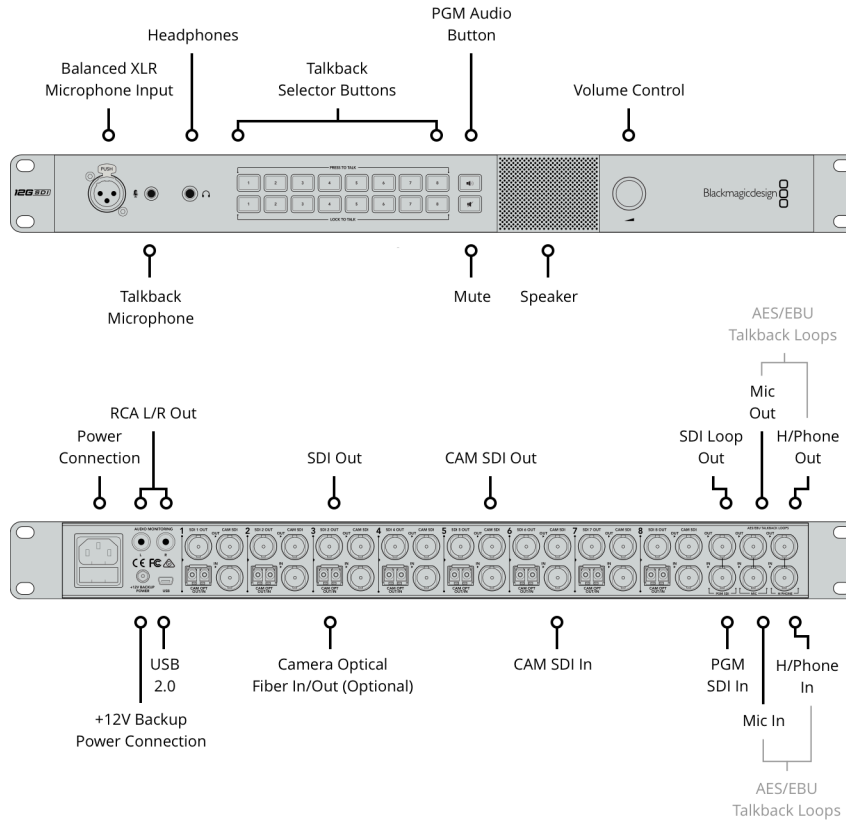
8 x single mode camera audio inputs with LC connector. Channels 1 and 2 are camera audio. Channels 15 and 16 are intercom audio.

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.

Operating Systems



Mac 10.11 El Capitan,
Mac 10.12 Sierra or later.



Windows 8.1 and 10.

Power Requirements

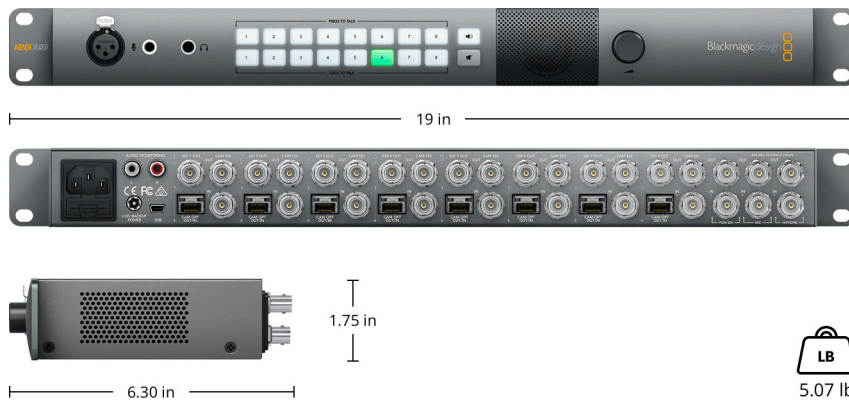
Power Supply

100 - 240V AC input with redundant
12 - 31V DC input.

Power Usage

60 Watts

Physical Specifications



Physical Installation

Physical Installation

1 rack unit size. Less than 6 inches deep.

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