**Blackmagicdesign**

# Blackmagic Studio Fiber Converter

Work with remote cameras up to 2 km away from your studio or outside broadcast truck using SMPTE fiber. The Blackmagic Studio Fiber Converter converts SDI video, audio, and remote camera control connections into a single optical fiber cable, which connects to a Blackmagic Camera Fiber Converter attached to a remote camera. All video and data are transmitted using standard IP for extremely low latency broadcast quality video. You get 12G-SDI for an HD or Ultra HD camera feed and 3 independent HD return feeds, along with standard connections for camera control, PTZ, two dual channel talkback intercoms, tracker talkback, tally and a 5 inch LCD screen for monitoring camera and return feeds. The Blackmagic Studio Fiber Converter also provides power for your remote cameras and accessories.

## Connections

### Optical Fiber Input
1x SMPTE Hybrid Fiber Optic with Female SMPTE 304 connector.

### SDI Video Input
3x 12G SDI Return feeds with Program, Camera Control, Tally, Genlock and Intercom on Return 1.

### SDI Video Output
2x 12G SDI for Ultra HD up to 60p.

### Talkback Audio
SDI Channels 15 & 16 for Production, Analogue in & out supported via 25-pin connector for Production and Engineering talkback support.

### Balanced XLR Audio Output
4x camera analogue audio outputs.

### Optical Fiber Output
1x Optical I/O via 10 Gb-E (not currently active).

### Computer Interface
1x USB-C.

## Standards

### 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

### Ultra HD Video Standards
2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p60

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

### Audio Sampling
Television standard sample rate of 48Khz, 24 bit A/D conversion.

### Video Sampling
4:2:2

### Color Precision
10-bit

| **Color Space** | **Multiple Rate Support** |
|---|---|
| REC 709, REC 2020. | SDI switches between HD, 3G-SDI, 6G-SDI and 12G-SDI. |

## Software

**Software Included**
Camera Utility for firmware update.

## Operating Systems

| | |
|---|---|
| Mac OS X 10.11 El Capitan, macOS 10.12 Sierra or later. | Windows 8.1 or Windows 10. |

## Power Requirements

**Power Supply**
110 - 240V AC input.

## Physical Specifications

## Environmental Specifications

| **Operating Temperature** | **Storage Temperature** | **Relative Humidity** |
|---|---|---|
| 0° to 40° C (32° to 104° F) | -20° to 45° C (-4° to 113° F) | 0% to 90% non-condensing |

## What's Included

| | |
|---|---|
| Blackmagic Studio Fiber Converter | SD card with software and manual |

## Warranty

1 Year Limited Manufacturer's
Warranty.

Blackmagic Design Authorized Reseller