

# Mini Converter Optical Fiber 12G



Mini Converter Optical Fiber 12G converts SDI to optical fiber and optical fiber to SDI in both directions at the same time, you can even have different video standards going in each direction! The 12G-SDI connections are multi rate, which makes it compatible with all SD, HD and Ultra HD formats and equipment up to 2160p60, including Level A and B devices. You can install any standard 3G, 6G or 12G-SDI SFP optical fiber module so you can send SDI using the same low cost optical fiber cables that are commonly used for computer networks.

## Connections

### SDI Video Inputs

1 x SD, HD and 12G-SDI Video and 1 x Optical Fiber Input.

### SDI Video Outputs

Automatically matches the SD, HD and 12G-SDI video input on the Optical Fiber.

### Optical Fiber Connection (optional)

1 x SMPTE optical fiber SFP socket. Optical fiber SFP module sold separately.

### Optical Fiber Video Inputs

1 x 10 bit SD/HD/12G-SDI switchable.

### Optical Fiber Video Outputs

Automatically matches the SD, HD and 12G-SDI video input.

### Optical Fiber Audio Inputs

16 channel embedded.

### Optical Fiber Audio Outputs

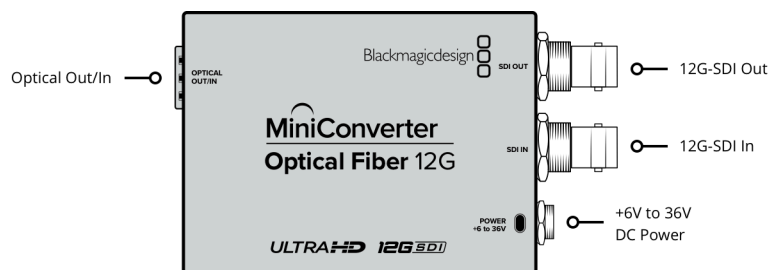
16 channel embedded.

### Multi Rate Support

Auto detection of SD, HD or 12G-SDI.

### Reclocking

Yes



## Standards

### SD Video Standards

525i59.94 NTSC, 625i50 PAL

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**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

**SDI Compliance**

SMPTE 259M, SMPTE 292M, SMPTE  
296M, SMPTE 424M-B, SMPTE 425M,  
SMPTE 424M-B, SMPTE ST-2081, ITU-  
R BT.656, ITU-R BT.601 and SMPTE  
297M for Optical Fiber SDI.

**SDI Video Rates**

SDI video connections are switchable  
between SD, HD, Ultra HD and  
DCI 4K.

**SDI Video Sampling**

4:2:2 and 4:4:4

**SDI Audio Sampling**

Television standard sample rate of  
48 kHz and 24-bit.

**SDI Color Precision**

4:2:2 and 4:4:4

**SDI Color Space**

YUV and RGB

**SDI Auto Switching**

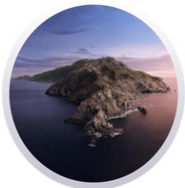
Automatically detects SD, HD or 12G-  
SDI.

**ASI Support**

Yes

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## Operating Systems



Mac 10.14 Mojave,  
Mac 10.15 Catalina or later.



Windows 8.1 and 10.

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## Settings Control

No user controls.

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## Power Requirements

**Power Supply**

+12V universal power supply included  
with international socket adapters for  
all countries. Cable tie point.

**Power Consumption**

2 Watts

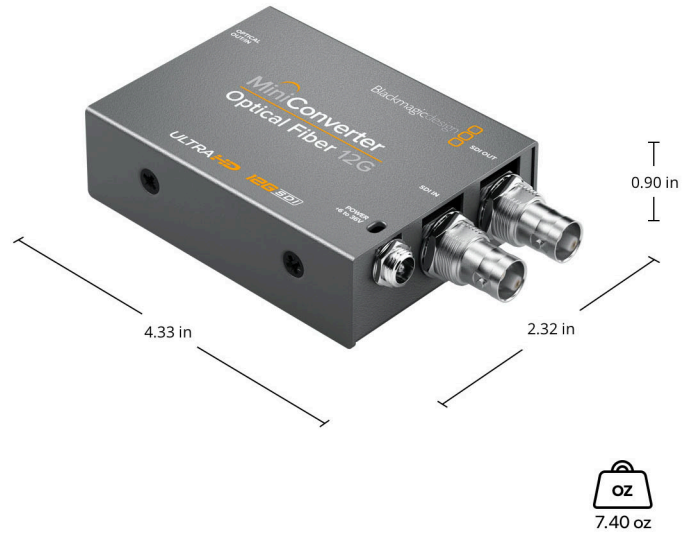
**Operational Voltage Range**

6 - 36V DC

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## Physical Specifications



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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

Mini Converter Optical Fiber 12G

+12V universal power supply with international socket adapters

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## Warranty

3 Year Limited Manufacturer's Warranty.

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