**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)**
1x SMPTE optical fiber SFP socket.

**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

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**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

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

Operating Systems

Mac 10.12 Sierra,
Mac 10.13 High Sierra or later.

Windows 8.1 or Windows 10.

Settings Control
No user controls.

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

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
Physical Specifications

Environmental Specifications

<table>
<thead>
<tr>
<th>Operating temperature</th>
<th>Storage temperature</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° to 40° C (32° to 104° F)</td>
<td>-20° to 45° C (-4° to 113° F)</td>
<td>0% to 90% non-condensing</td>
</tr>
</tbody>
</table>

What's Included

Mini Converter Optical Fiber 12G
+12V universal power supply with international socket adapters

Warranty

3 Year Limited Manufacturer's Warranty.
Blackmagic Design Authorized Reseller