

# Teranex Mini HDMI to Optical 12G



Now you can convert from HDMI to SDI and SMPTE optical fiber! Simply insert the SMPTE optical fiber module of your choice to send video and embedded audio over massive distances using 3G, 6G, or 12G-SDI optical fiber! You get professional 12G-SDI and XLR connections, an up converter for viewing SD and HD sources on Ultra HD displays plus ethernet for remote admin control. Optical fiber SFP module sold separately so you can purchase the SMPTE compatible 3G-SDI, 6G-SDI or 12G-SDI SFP to suit your workflow. You can even add an optional Smart Panel to add LCD monitoring and push button controls to your Teranex Mini!

\$535

## Connections

### SDI Video Inputs

Optional 3G/6G/12G Optical SFP input.

### SDI Video Outputs

1 x 12G-SDI.

### HDMI Video Inputs

1 x HDMI 2.0 type A connector with support for 2160p60.

### Optical Fiber Connection (optional)

Optional 3G/6G/12G optical SFP output.

### Optical Fiber Video Outputs

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

### Analog Audio Inputs

2 channels professional balanced analog audio via XLR connectors. Right XLR can be configured for timecode input.

### Digital Audio Inputs

4 channels professional 110Ω balanced digital audio via XLR connectors. Right XLR can be configured for Timecode input.

### Embedded Audio Support

16 channels.

### Multi Rate Support

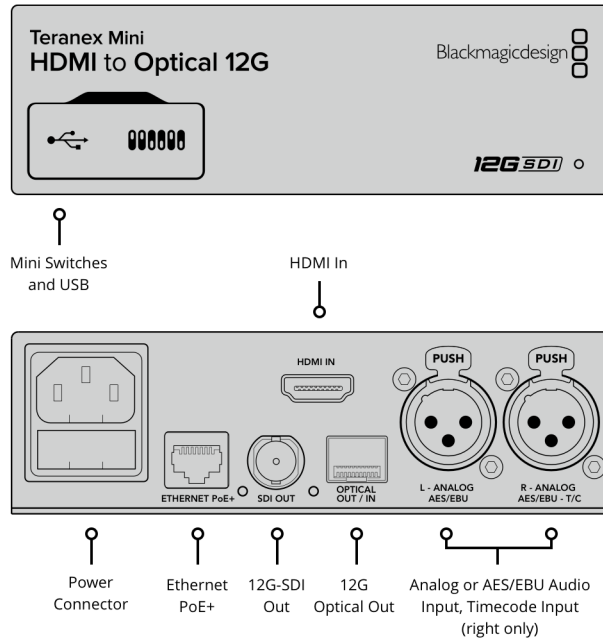
Automatic switching between SD/HD/2K and 4K.

### Updates and Configuration

USB and Ethernet.

### Reclocking

Yes



## Optical Output Standards

### SD Video Standards

525i59.94 NTSC, 625i50 PAL

### HD Video Standards

720p50, 720p59.94, 720p60  
1080i50, 1080i59.94, 1080i60  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30, 1080p47.95,  
1080p48, 1080p50, 1080p59.94,  
1080p60

### 2K Video Standards

2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30, 2160p47.95,  
2160p48, 2160p50, 2160p59.94,  
2160p60

### 4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI

### SDI Compliance

SMPTE 259M, SMPTE 292M,  
SMPTE 296M, SMPTE 297M for  
Optical Fiber SDI, SMPTE 372M,  
SMPTE 424M, SMPTE 2081-1,  
SMPTE 2081-10, SMPTE 2082-1 and  
SMPTE 2082-10

### SDI Video Rates

SDI video connections are switchable  
between standard definition, high  
definition level A and level B 3G-SDI,  
6G-SDI and 12G-SDI.

### 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

YUV 4:2:2 and RGB 4:4:4 in HD, 2K  
and 4K.

### SDI Color Space

REC 601, REC 709

## HDMI Input Standards

### SD Video Standards

525i59.94 NTSC, 625i50 PAL

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### HD Video Standards

720p50, 720p59.94, 720p60  
1080i50, 1080i59.94, 1080i60  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30, 1080p47.95,  
1080p48, 1080p50, 1080p59.94,  
1080p60

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30, 2160p47.95,  
2160p48, 2160p50, 2160p59.94,  
2160p60

### 4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI

### HDMI Color Space

REC 601, REC 709

### HDMI Color Precision

### Copy Protection

HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.

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## Software

### Software Control

Mac™ and Windows™ software  
upgrade via USB or Ethernet.

### Internal Software Upgrade

Via included updater application.

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## Operating Systems



Mac 10.15 Catalina,  
Mac 11.1 Big Sur or later.



Windows 10, 64-bit.

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## Settings Control

### Basic Settings Control

Mini Switches, USB and Ethernet via  
free software utility.

### Optional Front Panel Control

Front mounted Smart Panel with LCD,  
rotary knob and six settings buttons.

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## Power Requirements

### Power Supply

1 x built in international AC power  
supply with IEC C14 inlet. IEC Power  
cable required. 100 - 240V AC Input.

### Power Over Ethernet

Can be powered via 48V DC using  
PoE+ (power over ethernet).

### Power Consumption

16 Watts

### Operational Voltage Range

100 - 240V AC

Physical Specifications



Environmental Specifications

|                                                           |                                                           |                                                      |
|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|
| <b>Operating Temperature</b><br>0° to 40°C (32° to 104°F) | <b>Storage Temperature</b><br>-20° to 60°C (-4° to 140°F) | <b>Relative Humidity</b><br>0% to 90% non-condensing |
|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|

What's Included

Teranex Mini HDMI to Optical 12G  
Welcome wallet with QR code for software download

Warranty

3 year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller