

# Blackmagic 2110 IP Mini BiDirect 12G SFP



Blackmagic 2110 IP Mini BiDirect 12G SFP lets you convert broadcast cameras with SDI connections to SMPTE-2110 IP video systems over long distances using optical fiber. Its 12G-SDI connection supports SD, HD and Ultra HD standards up to 2160p60 and even handles the SDI program return. Blackmagic 2110 IP Mini BiDirect 12G SFP also has a 5 pin XLR talkback headset connection with talkback volume control and a press to talk button. The SFP socket will accept 10G Ethernet, 3G-SDI, 6G-SDI or 12G-SDI optical modules. It also includes a 12 DC power supply.

\$365

## Connections

### SDI Video Inputs

1

### SDI Video Outputs

1

### SDI Rates

270Mb, 1.5G, 3G, 6G, 12G.

### SMPTE ST-2110 IP Video Inputs/

### Outputs

1 x 10G Ethernet

### Analog Audio Inputs

1 x 5 pin XLR Talkback.

### Analog Audio Outputs

1 x 5 pin XLR Talkback.

### SDI Audio Inputs

16 Ch embedded audio on SDI input.

### SDI Audio Outputs

16 Ch embedded audio on SDI loop output.

### SMPTE ST 2110 IP Audio Inputs

16 Ch embedded audio on ST-2110 IP video via 10G Ethernet.

### SMPTE ST 2110 IP Audio Outputs

16 Ch embedded audio on ST-2110 IP video via 10G Ethernet.

### Multi Rate Support

Auto detection of SD, HD, 2K, Ultra HD and 4K.

### Reclocking

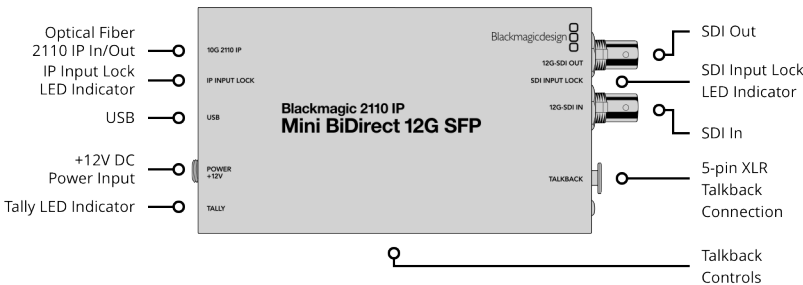
Yes

### Ethernet

1 x 10Gb/s SFP optical fibre sockets supporting up to 10/100/1000/10G BASE-T for SMPTE-2110 IP video in and out, configuration and firmware updates.

### Computer Interface

1 x USB-C 3.0 for configuration and firmware updates.



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## SDI Video 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  
1080PsF25, 1080PsF29.97, 1080PsF30

### 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,  
4Kp29.97 DCI, 4Kp30 DCI,  
4Kp47.95 DCI, 4Kp48 DCI, 4Kp50 DCI,  
4Kp59.94 DCI and 4Kp60 DCI.

### SDI Compliance

SMPTE 259M, SMPTE 292M,  
SMPTE 296M, SMPTE 424M,  
SMPTE 425M, SMPTE 2081-1,  
SMPTE 2081-10, SMPTE 2082-1,  
SMPTE 2082-10, SMPTE 2084,  
SMPTE 2108-1, SMPTE ST2110-20,  
SMPTE ST2110-21, SMPTE ST2110-30,  
SMPTE ST2110-40.

### SDI Video Rates

SDI video connections are switchable between standard definition, 720p, 1080i, 1080p, 2K DCI, Ultra HD and 4K DCI.

### SDI Color Precision

4:2:2

### SDI Color Space

YUV

### SDI Auto Switching

Automatically detects SD, HD, 2K DCI, Ultra HD and 4K DCI. Level A and B is automatically detected on 3G-SDI input and user selectable on 3G-SDI output.

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## IP Video Compliance

### SMPTE 2110-20

#### (Uncompressed Video)

IGMP v2

### SMPTE 2110-21 (Traffic Shaping)

Sender: Narrow  
Receiver: Narrow, Wide Synchronous,  
Asynchronous

### SMPTE 2110-30 (PCM)

Audio Conformance level: Level C

### SMPTE 2110-40 (Ancillary Data)

Full access to entire SMPTE ancillary data stream. Includes RP 188/SMPTE 12M-2, closed captioning and HDR static metadata.

### Codec

Blackmagic IP10 codec used when converting 12G-SDI rates to 10G 2110 IP video.

### Precision Time Protocol

IEEE 1588-2008 (PTP v2)  
ST 2059-1  
ST 2059-2

### NMOS IS-04 Discovery and

#### Registration

v1.3.2  
Peer-to-peer via mDNS/DNS-SD

### NMOS IS-05 Connection

#### Management

v1.1.2

### NMOS BCP-002-01

Natural Grouping

### NMOS BCP-004-01

Receiver capabilities

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## LED Indicators

1 x IP Input Lock LED indicator light

1 x SDI Input Lock LED indicator light

1 x Tally LED indicator light

Control

Talkback button controls for Volume Up, Volume Down and Push to Talk.

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## Talkback and Tally

### Talkback

5-pin XLR talkback headset connection for talkback on channels 15/16 in the SDI and 2110 IP video.

### Live Tally Indicator

Tally LED indicator light

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## Operating Systems



Mac 13.0 Ventura,  
Mac 14.0 Sonoma or later.



Windows 10 and 11.

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## Power Requirements

### Power Supply

1 x +12V DC external universal power supply with locking 5.5mm barrel Jack plus international socket adapters for most countries.

### Operational Voltage Range

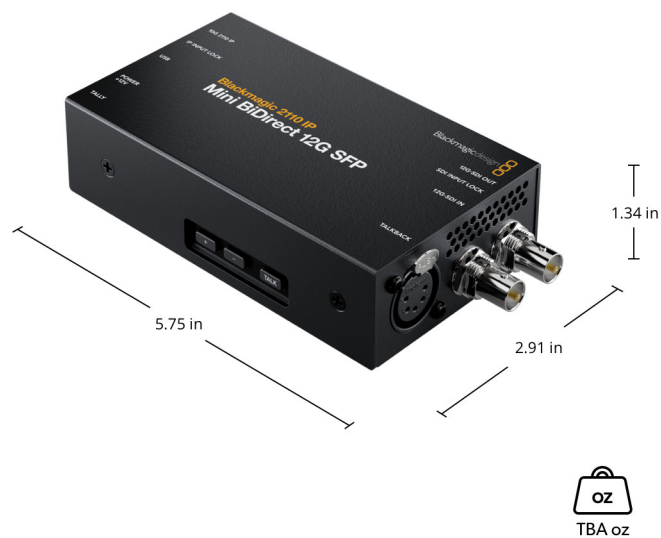
12 - 16 V

### Power Usage

18W

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## Physical Specifications



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## Environmental Specifications

### Operating Temperature

5° to 40° C (41° 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

Blackmagic 2110 IP Mini BiDirect 12G SFP  
Welcome wallet with QR code for software download

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## Warranty

12 Month Limited Manufacturer's Warranty.

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