

# Blackmagic 2110 IP Mini BiDirect 12G



Blackmagic 2110 IP Mini BiDirect 12G lets you convert broadcast cameras with SDI connections to SMPTE-2110 IP video systems. 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 also has a 5 pin XLR talkback headset connection with talkback volume control and a press to talk button. It connects and powers from 10G Ethernet or the included DC power supply.

**\$365**

## Connections

### SDI Video Inputs

1

### SDI Video Outputs

1

### SDI Rates

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 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 HD, Ultra HD and 4K.

### Reclocking

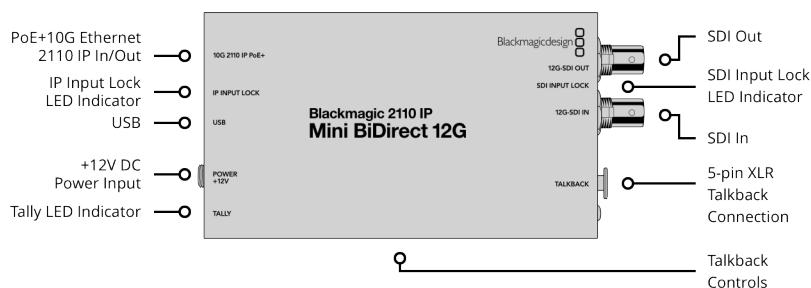
Yes

### Ethernet

1 x 10Gb/s RJ-45 connector for SMPTE-2110 IP video in and out.

### Computer Interface

1 x USB-C for configuration and firmware updates.



---

## SDI Video Standards

### 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 292M, SMPTE 296M,  
SMPTE 424M, SMPTE 425M,  
SMPTE 2081-1, SMPTE 2081-10,  
SMPTE 2082-1, SMPTE 2082-10,  
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

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

---

## 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

---

## 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.

---

## 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

---

## Operating Systems



Mac 13.0 Ventura,  
Mac 14.0 Sonoma or later.



Windows 10 and 11.

---

## 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.  
1 x RJ45 Ethernet connector for power from PoE++ power supplies.

### Operational Voltage Range

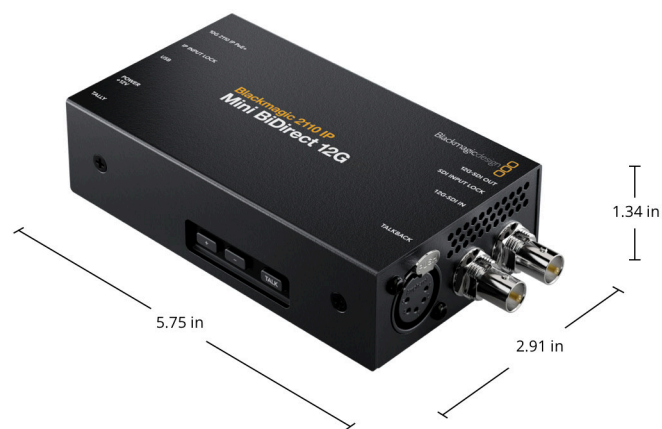
12 - 16 V

### Power Usage

18W

---

## Physical Specifications



10.41 oz

---

## 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

---

## What's Included

Blackmagic 2110 IP Mini BiDirect 12G

Plug Pack Power Supply with universal adaptor plugs

---

## Warranty

12 Month Limited Manufacturer's Warranty.

All items on this website are copyright Blackmagic Design Pty. Ltd. 2024, all rights reserved. All trademarks are property of their respective owners. MSRP includes duties, but excludes sales tax and shipping costs. This website uses remarketing services to advertise on third party websites to previous visitors to our site. You can opt out at any time by changing cookie settings. [Privacy Policy](#)

Blackmagic Design Authorized Reseller