

# Blackmagic 2110 IP Converter 4x12G PWR



Blackmagic 2110 IP Converter 4x12G PWR lets you add SMPTE-2110 IP video to 12G-SDI broadcast equipment. It features 4 independent bidirectional 12G-SDI to SMPTE-2110 IP video converters using RJ-45 10G Ethernet connections which can also provide power. Its 1RU design includes a control panel with LCD and supports HD and Ultra HD standards up to 2160p60.

**\$2,215**

## Connections

**Total SDI Inputs**

5

**SDI Video Inputs**

4

**SDI Main Program Inputs**

1

**Total SDI Outputs**

5

**SDI Video Outputs**

4

**SDI Main Program Outputs**

1 Loop Out.

**SDI Rates**

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

**SMPTE ST-2110 IP Video Inputs**

4 x 10G Ethernet

**SMPTE ST-2110 IP Video Outputs**

4 x 10G Ethernet

**Analog Audio Outputs**

1 x 6.35 mm headphone socket.

**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, Ultra HD and 4K.

**Reclocking**

Yes

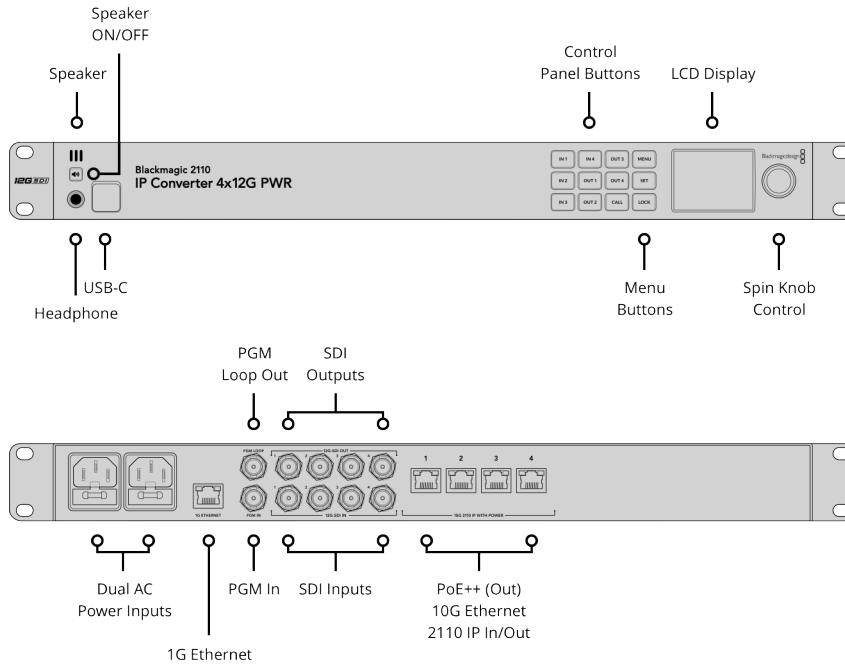
**Ethernet**

4 x 10Gb/s RJ-45 PoE++ connectors supporting 10/100/1000/10G BASE-T for SMPTE 2110 IP video in and out. PoE++ is power output only for powering connected PoE devices such as Blackmagic Cameras and Converters.

1 x 1Gb/s RJ-45 connector supporting 10/100/1000 BASE-T for configuration and firmware updates.

**Computer Interface**

1 x USB-C 3.0 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 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.

## 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

---

## Audio

Front panel audio monitor speaker with speaker control button, plus 6.35 mm headphone socket.

---

## Control

**Built in Control Panel**

12 button control panel, 2.2 inch color display and spin knob for setup and menu settings.

---

## Operating Systems



Mac 13.0 Ventura,  
Mac 14.0 Sonoma or later.



Windows 10 and 11.

---

## Power Requirements

**Power Supply**

2 x Internal 100 - 240V AC 50/60Hz  
with IEC C14 mains input.

**Power Usage**

410 W max.  
(including 4 x 90 W PoE supply to  
downstream devices)

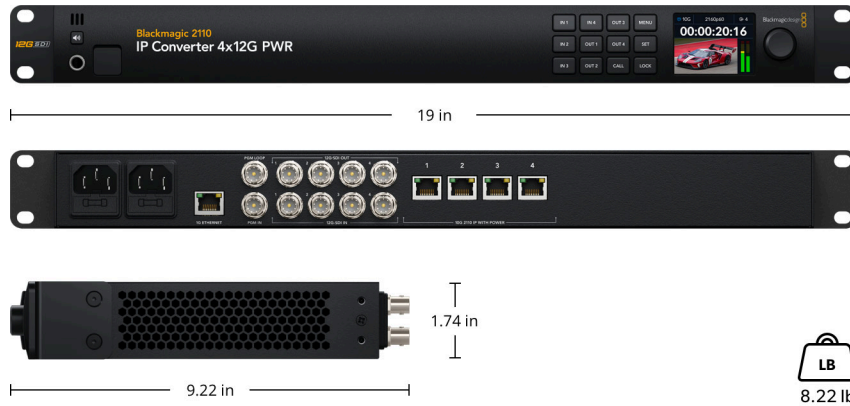
---

## Physical Installation

1 rack unit.

---

## Physical Specifications



---

## 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 Converter 4x12G PWR

Welcome wallet with QR code for software download

---

## Warranty

1 Year Limited Manufacturer's Warranty.

All items on this website are copyright Blackmagic Design Pty. Ltd. 2025, 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