

# Blackmagic 2110 IP Presentation Converter



Blackmagic 2110 IP Presentation Converter is designed for speaker podiums with connections for laptops, projectors and microphones all in the one converter. Computers can connect via USB-C for both video and power and there is an HDMI output for projectors that can be switched to the video input or the 2110 IP return feed. For audio, there are XLR microphone inputs and an XLR audio out for PA speakers. The RJ-45 10G Ethernet video connection can power the whole converter, even when charging a USB computer!

\$935

## Connections

### PC Video Inputs

1 x front USB-C plus 1 x rear USB-C with 45W host charging capability.

### HDMI 2.0 Video Inputs

1

### HDMI 2.0 Video Outputs

1

### SDI Video Outputs

1

Automatically standards converted to destination

### SDI Rates

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

### SMPTE ST-2110 IP Video Inputs

1 x 10G Ethernet

### SMPTE ST-2110 IP Video Outputs

1 x 10G Ethernet

### Analog Audio Inputs

2 x Combination 3-pin XLR / TRS 1/4 inch Jack connectors, switchable between +24dB line and mic level with support for +48V phantom power.

### Analog Audio Outputs

2 channels of professional balanced analog audio with 3-pin XLR connectors.  
1 x 6.35 mm headphone jack.

### SDI Audio Outputs

16 Channels embedded in SD/HD/2K/ UHD/4K.

### HDMI Audio Inputs

8 Channels embedded in SD/HD/ UHD/4K.

### HDMI Audio Outputs

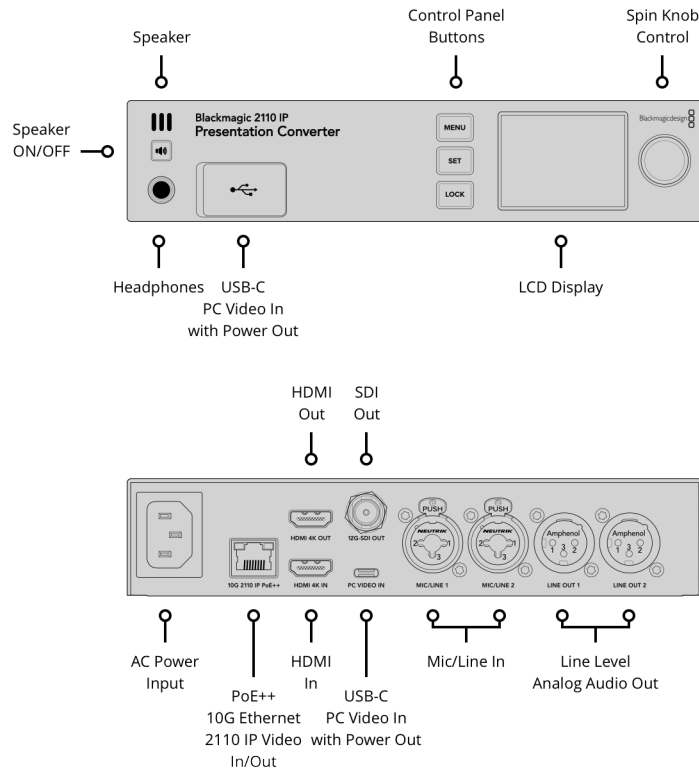
8 Channels embedded in SD/HD/ UHD/4K.

### USB

2 x USB-C 3.1 Gen 1 (up to 5 Gb/s).

### Ethernet

1 x 10Gb/s RJ-45 connector supporting 10/100/1000/10G BASE-T for SMPTE-2110 IP video in and out, 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, 1080p50,  
 1080p59.94, 1080p60  
 1080PsF23.98, 1080PsF24,  
 1080PsF25, 1080PsF29.97, 1080PsF30

### 2K Video Standards

2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,  
 2Kp29.97 DCI, 2Kp30 DCI, 2Kp50 DCI,  
 2Kp59.94 DCI, 2Kp60 DCI  
 2KPsF23.98 DCI, 2KPsF24 DCI,  
 2KPsF25 DCI, 2KPsF29.97 DCI,  
 2KPsF30 DCI

### Ultra HD Video Standards

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

### 4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,  
 4Kp29.97 DCI, 4Kp30 DCI, 4Kp50 DCI,  
 4Kp59.94 DCI, 4Kp60 DCI

### SDI Compliance

SMPTE 274M, SMPTE 296M,  
 SMPTE 424M, SMPTE 425M,  
 SMPTE 2081-1, SMPTE 2081-10,  
 SMPTE 2082-10, SMPTE ST2108-1,  
 SMPTE ST2110-20, SMPTE ST2110-21,  
 SMPTE ST2110-30, SMPTE ST2110-40.

### SDI Metadata Support

RP 188/SMPTE 12M-2 and  
 closed captioning.

### Multiple Rate Support

SDI video connections are switchable  
 between HD/2K/UHD and 4K.

### SDI Audio Sampling

Television standard sample rate of 48  
 kHz and 24-bit.

### SDI Video Sampling

4:2:2, 4:4:4

### SDI Color Precision

8, 10, 12-bit RGB 4:4:4 in 2D modes  
 up to 4Kp30 DCI and 8, 10-bit YUV  
 4:2:2 in all 2D modes.  
 8, 10, 12-bit RGB 4:4:4 in 3D modes  
 up to 2Kp60 DCI and 8, 10-bit YUV  
 4:2:2 in all 3D modes.

### SDI Color Space

REC 709 and REC 2020

### HDR Support

HDR static metadata packing, HLG  
 and PQ transfer characteristics.

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## HDMI Video Standards

### HD Video Standards

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

### Ultra HD Video Standards

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

### 4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,  
4Kp29.97 DCI, 4Kp30 DCI, 4Kp50 DCI,  
4Kp59.94 DCI, 4Kp60 DCI

### HDMI Audio Sampling

Television standard sample rate of 48  
kHz and 24-bit.

### HDMI Video Sampling

4:4:4, 4:2:2 and 4:2:0

### HDMI Color Precision

8, 10 and 12-bit

### HDMI Color Space

REC 709 and REC 2020

### HDR Support

HDR static metadata packing, HLG  
and PQ transfer characteristics.

### HDR Configuration

HDMI 2.0 supports Deep Color and  
HDR. Automatically configures to  
connected display.

### Multiple Rate Support

HDMI video connections are  
switchable between HD/UHD and 4K.

### 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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## 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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## Control

### Built in Control Panel

3 buttons, spin knob and 2.2 inch  
color display for menu and settings.  
Front speaker on/off button.

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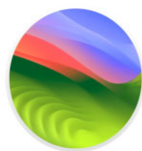
## Physical Installation

Half rack unit width, 1 rack unit height.

Physical Specifications



Operating Systems



Mac 13.0 Ventura,  
Mac 14.0 Sonoma or later.



Windows 10 and 11.

Power Requirements

**Power Supply**

1 x Internal 100 - 240V AC 50/60Hz  
with IEC C14 socket.

**Power Usage**

TBA

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 Presentation Converter  
Blackmagic 2110 IP Presentation Converter Mounting Plate  
Welcome wallet with QR code for software download

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## Warranty

1 Year Limited Manufacturer's Warranty.

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