

# Blackmagic 2110 IP SDI to HDMI 12G



Blackmagic 2110 IP SDI to HDMI 12G converts 12G-SDI or SMPTE-2110 video to HDMI in a rack mount design. You get the highest quality conversion between all SD, HD and Ultra HD video standards with 3D LUTs for accurate calibration of HDMI displays. Includes front panel LCD with video, meters and menus, 2 channel XLR monitoring outputs with variable gain and delay, speaker and headphone connector.

\$585

## Connections

**SDI Inputs**

1

**SDI Loop Outputs**

1

**SDI Rates**

SD, 1.5G, 3G, 6G and 12G

**HDMI 2.0 Video Outputs**

1

**SMPTE 2110 Input / Output**

1 x 10G Ethernet

**SMPTE ST 2110 IP Audio Inputs / Outputs**

16 channels embedded input and output audio on ST-2110 IP video via 10G Ethernet.

**SDI Audio Inputs**

16 channels embedded audio.

**SDI Audio Outputs**

16 channels embedded audio.

**HDMI Audio Inputs**

8 channels embedded audio.

**HDMI Audio Outputs**

8 channels embedded audio.

**Analog Audio Outputs**

2 channels of professional balanced analog audio with 3-pin XLR connectors.

1 x 6.35 mm headphone jack.

**Webcam Outputs**

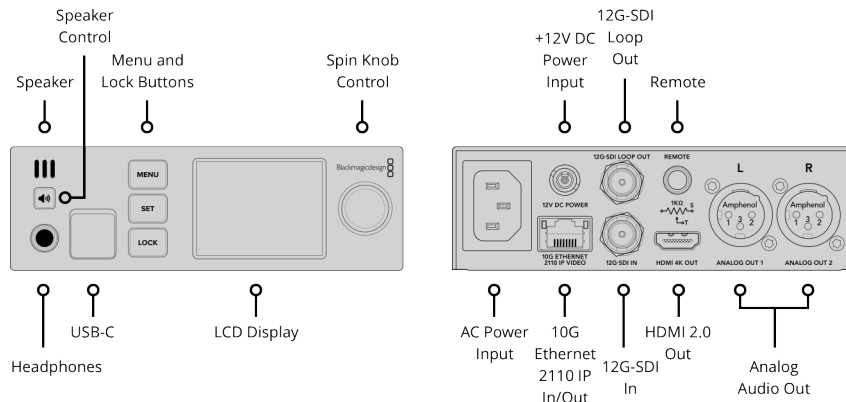
1 x USB-C up to 1080p60

**Ethernet**

Ethernet supports 10/100/1000/10G BASE-T for SMPTE 2110 IP video in and out, configuration and software updates.

**Computer Interface**

USB-C for webcam out, updates and configuration



## 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,  
1080PsF23.98, 1080PsF24,  
1080PsF25, 1080PsF29.97, 1080PsF30

### 2K Video Standards

2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,  
2Kp29.97 DCI, 2Kp30 DCI,  
2Kp47.95 DCI, 2Kp48 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, 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, 4Kp60 DCI

### SMPTE Compliance

SMPTE 259M, SMPTE 274M,  
SMPTE 292M, SMPTE 296M,  
SMPTE 424M, SMPTE 425M  
level A and B, SMPTE 2036-1,  
SMPTE 2048-1, SMPTE 2081-10,  
SMPTE 2081-11, SMPTE 2081-12,  
SMPTE 2082-10, SMPTE 2082-11,  
SMPTE 2082-12 and SMPTE ST2108-1

### SDI Metadata Support

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

### Audio Sampling

Television standard sample rate of  
48 kHz and 24 bit.

### Color Precision

8, 10 RGB 4:4:4 in all modes up to  
1080p30 and 8, 10-bit YUV 4:2:2 in  
all modes.

### Color Space

Rec. 601, Rec. 709, Rec. 2020

### HDMI 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

### HDMI Ultra HD Video Standards

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

### HDMI 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

### HDMI Color Precision

4:2:2

### HDMI Color Space

YUV

## Audio

### Local Audio Monitoring

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

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## IP Video Compliance

**SMPTE 2110-20**  
**(Uncompressed Video)**  
IGMP v3

**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 2160p59.94 and 2160p60  
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**  
Built in control panel including  
4 buttons, spin knob control and 2.2  
inch color display.

**External Control**  
RJ-45 10Gb/s Ethernet and USB-C.  
REST API over Ethernet for external  
control via HTTP when used with  
REST client applications.

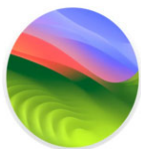
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## Displays

Built in 2.2 inch LCD for monitoring  
video, audio and status plus  
menu settings.

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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 Internal 100 - 240V AC 50/60Hz.

### Power Supply

1 x IEC C14 socket for AC power.  
1 x Locking 5.5mm barrel +12V DC input for external power supply or battery use.

### Power Usage

TBC

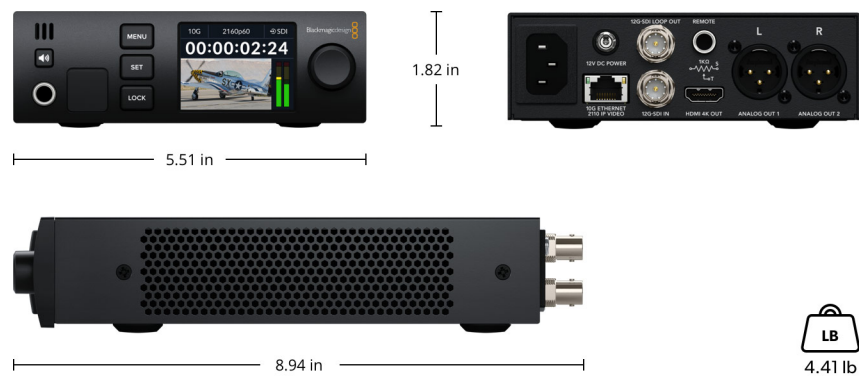
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## Physical Installation

One third rack unit width, 1 rack unit height.

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## Physical Specifications



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## Environmental Specifications

### Operating Temperature

0° C to 40° C (32° - 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 SDI to HDMI 12G  
Welcome wallet with QR code for software download

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## Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller