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!

$1,319

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.

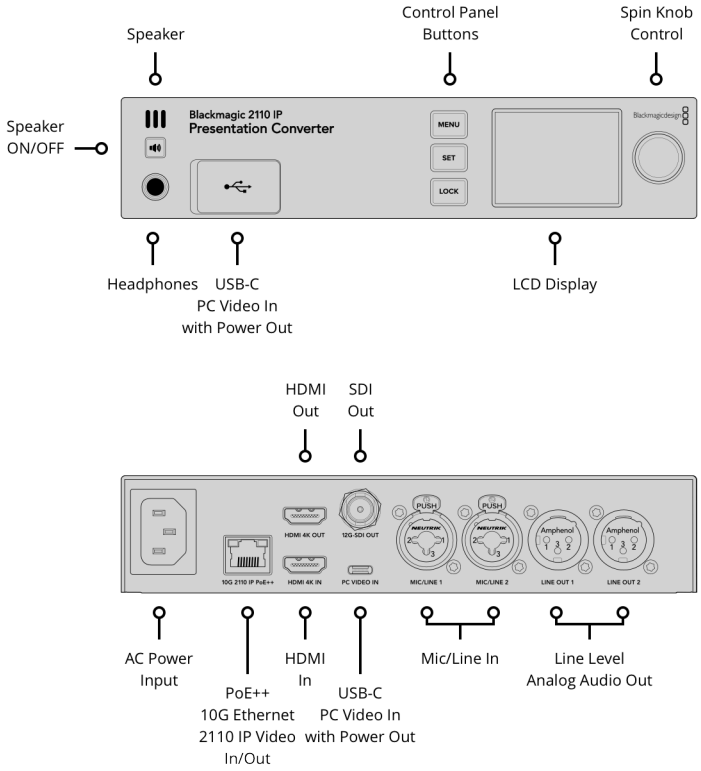
SDI Audio Outputs
16 Channels embedded in SD/HD/2K/UHD/4K.

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.

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.

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 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

Control

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

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

What's Included

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

Warranty

1 Year Limited Manufacturer’s Warranty.

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