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.

$2,655

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.

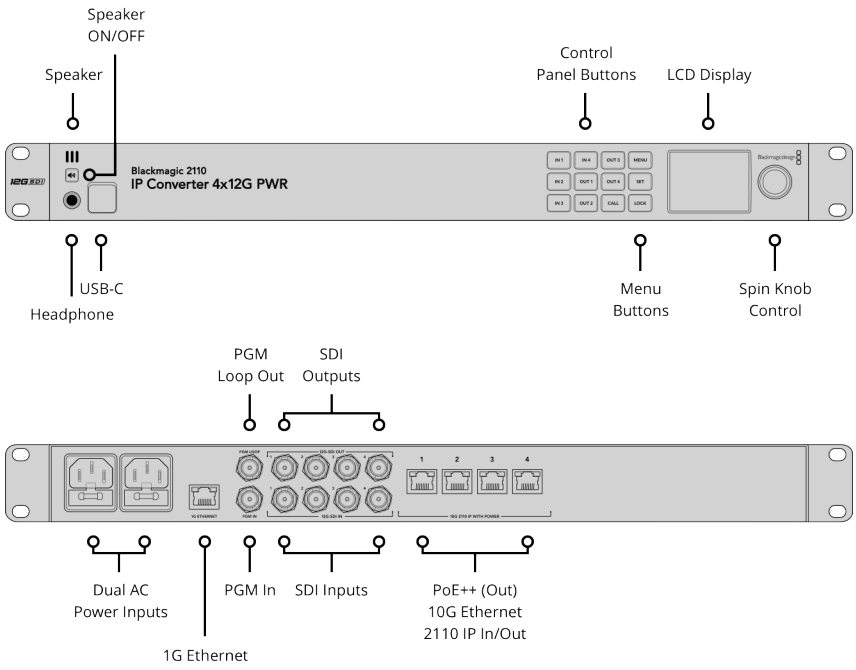
SMPTE ST 2110 IP Audio Outputs
16 Ch embedded audio on ST-2110 IP video via 10G Ethernet.

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 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

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

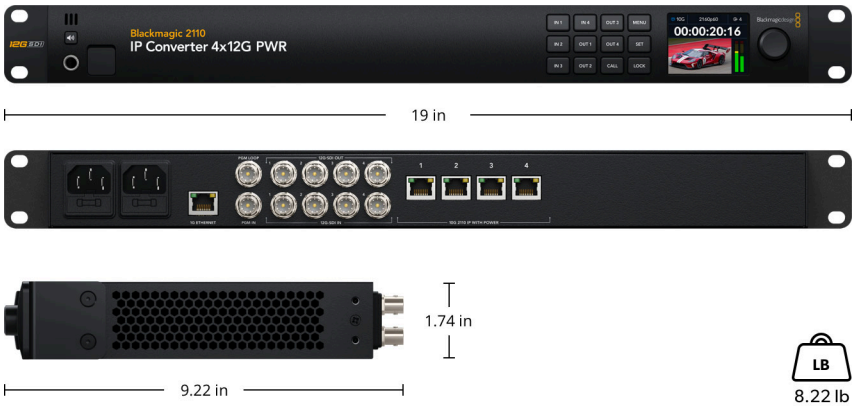
Power Supply
2 x Internal 100 - 240V AC 50/60Hz with IEC C14 mains input.

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.

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