

Blackmagic 2110 IP Mini BiDirect 12G SFP



Blackmagic 2110 IP Mini BiDirect 12G SFP lets you convert broadcast cameras with SDI connections to SMPTE-2110 IP video systems over long distances using optical fiber. Its 12G-SDI connection supports SD, HD and Ultra HD standards up to 2160p60 and even handles the SDI program return. Blackmagic 2110 IP Mini BiDirect 12G SFP also has a 5 pin XLR talkback headset connection with talkback volume control and a press to talk button. The SFP socket will accept 10G Ethernet, 3G-SDI, 6G-SDI or 12G-SDI optical modules. It also includes a 12 DC power supply.

\$405

Connections

SDI Video Inputs

1

SDI Video Outputs

1

SDI Rates

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

SMPTE ST-2110 IP Video Inputs/

Outputs

1 x 10G Ethernet

Analog Audio Inputs

1 x 5 pin XLR Talkback.

Analog Audio Outputs

1 x 5 pin XLR Talkback.

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, 2K, Ultra HD and 4K.

Reclocking

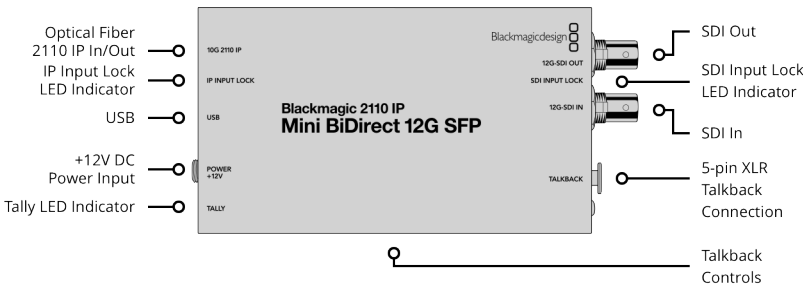
Yes

Ethernet

1 x 10Gb/s SFP optical fibre sockets supporting up to 10/100/1000/10G BASE-T for SMPTE-2110 IP video in and out, 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

LED Indicators

1 x IP Input Lock LED indicator light

1 x SDI Input Lock LED indicator light

1 x Tally LED indicator light

Control

Talkback button controls for Volume Up, Volume Down and Push to Talk.

Talkback and Tally

Talkback

5-pin XLR talkback headset connection for talkback on channels 15/16 in the SDI and 2110 IP video.

Live Tally Indicator

Tally LED indicator light

Operating Systems



Mac 13.0 Ventura,
Mac 14.0 Sonoma or later.



Windows 10 and 11.

Power Requirements

Power Supply

1 x +12V DC external universal power supply with locking 5.5mm barrel Jack plus international socket adapters for most countries.

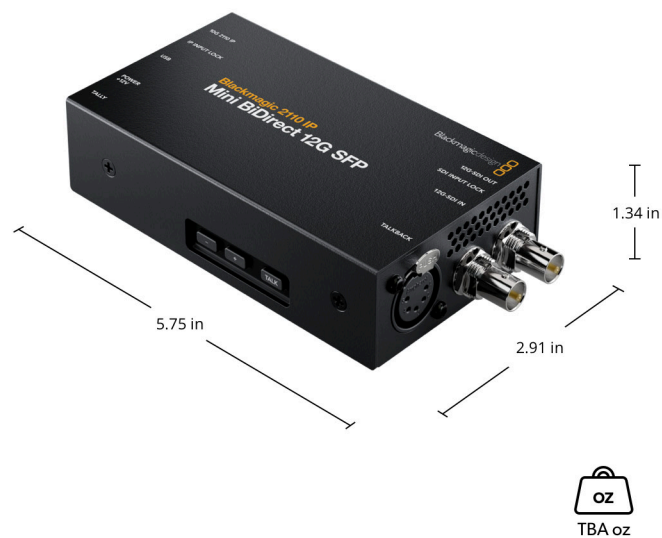
Operational Voltage Range

12 - 16 V

Power Usage

18W

Physical Specifications



Environmental Specifications

Operating Temperature	Storage Temperature	Relative Humidity
5° to 40° C (41° to 104° F)	-20° to 45° C (-4° to 113° F)	0% to 90% non-condensing

What's Included

Blackmagic 2110 IP Mini BiDirect 12G SFP
Welcome wallet with QR code for software download

Warranty

1 Year Limited Manufacturer's Warranty.

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