Blackmagicdesign

Blackmagic Studio Converter

$1,055

With 10G Ethernet on Blackmagic Studio Converter and Blackmagic Studio Camera Pro, you can connect all camera signals using one Ethernet IP link connection. That means the camera feed, return program feed, timecode, reference, tally, talkback and control are all sent down the single cable. That's the same benefits of SMPTE fiber, but the standard 10G copper Ethernet cable is much lower cost. The Blackmagic Studio Converter allows breakout of all the video, audio and talkback connections at the studio end. It also includes a massive power supply that powers the camera down the Ethernet cable, so you don't even need a power source near the camera!

Connections

SDI Video Inputs
2

SDI Video Outputs
2

SDI Monitor Outputs
1

SDI Rates
1.5G, 3G, 6G, 12G.

Built in Speaker
Mono

Analog Audio Inputs
2 channel analog Program audio in supported via 9-pin connector.

Analog Audio Outputs
1 x 6.35 mm headphone jack.

SDI Audio Input
Return 1 with 2 channels of Program audio embedded in 1.5G/3G/6G/12G-SDI.
4 talkback channels on 13, 14, 15 and 16.
Return 2 with 2 channels of audio embedded in 1.5G/3G/6G/12G-SDI.

SDI Audio Output
2 channels of Program audio embedded in 1.5G/3G/6G/12G-SDI.
4 talkback channels on 13, 14, 15 and 16.

Timecode Connections
1 x BNC In, 1 x BNC Out.

Reference Connections
1 x BNC In, 1 x BNC Out.
Tri-Sync or Black Burst.

Talkback Audio
SDI channels 13 and 14 for Engineering talkback.
SDI channels 15 and 16 for Production talkback.
RJ-45 Talkback connector for analog external talkback systems.
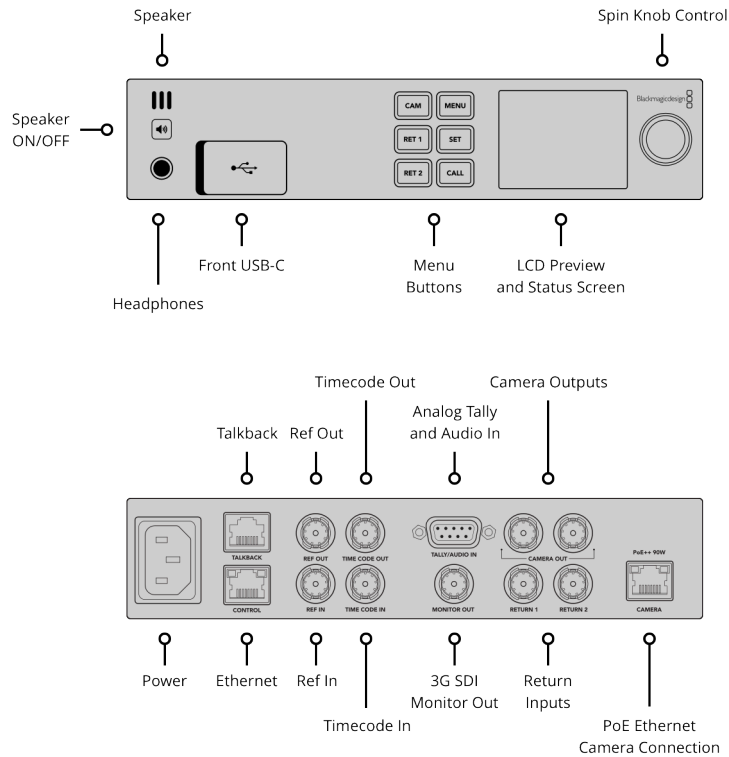
Screen
2.2 inch LCD

Ethernet
1 x 10Gb/s PoE RJ-45 Camera connector for SMPTE Fibre style workflow over Cat 6A network cable.
1 x 1Gb/s for external control and software updates.

Computer Interface
1 x USB-C.

Speaker

Spin Knob Control

Speaker
ON/OFF

Front USB-C

Headphones

Menu
Buttons

LCD Preview
and Status Screen

CAM MENU
RET 1 SET
RET 2 CALL

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Timecode Out

Camera Outputs

Analog Tally
and Audio In

Talkback Ref Out

TALKBACK REF OUT TIME CODE OUT TALLY/AUDIO IN CAMERA OUT PoE++ 90W

CONTROL REF IN TIME CODE IN MONITOR OUT RETURN 1 RETURN 2 CAMERA

Power Ethernet Ref In

Timecode In

3G SDI
Monitor Out

Return
Inputs

PoE Ethernet
Camera Connection

Standards

HD Video Standards

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

Ultra HD Video Standards

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

SDI Compliance

SMPTE 292M, SMPTE 424M,
SMPTE 425M level A and B,
SMPTE 2081-1, SMPTE 2081-10,
SMPTE 2082-1 and SMPTE 2082-10.

Audio Sampling

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

Video Sampling

4:2:2

Color Precision

10-bit

Color Space

REC 709, REC 2020.

Multiple Rate Support

SDI switches between HD, 3G-SDI,
6G-SDI and 12G-SDI.

Control

Built in Control Panel

7 buttons with spin knob control and
2.2 inch color display for device
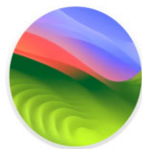control and menu settings.

External Control

RJ-45 1Gb/s Ethernet.

Software

Software Included
Camera Utility for firmware update.

Operating Systems

Mac 13.0 Ventura,
Mac 14.0 Sonoma or later.

Windows 10 and 11.

Power Requirements

Power Supply	**Power Supply**	**Power Usage**
100 - 240V AC input.	1 x Internal 100 - 240V AC 50/60Hz.	40 W max plus camera power usage.

Optional Accessories

Blackmagic Universal Rack Shelf
Blackmagic Studio Camera 6K Pro
Blackmagic Studio Camera 4K Pro G2
Blackmagic Studio Camera 4K Pro

Physical Specifications

Environmental Specifications

Operating Temperature
0° to 40° C (32° to 104° F)

Storage Temperature
-20° to 45° C (-4° to 113° F)

Relative Humidity
0% to 90% non-condensing

What's Included

Blackmagic Studio Converter

Warranty

1 Year Limited Manufacturer's
Warranty.

Blackmagic Design Authorized Reseller