

# Blackmagic UpDownCross 100G



The Blackmagic UpDownCross 100G is a powerful 8-channel standards converter with native SMPTE-2110 connections via 100G Ethernet. It converts up to 8 separate channels of SD, HD and Ultra HD video to any other standard simultaneously. The professional 1RU design features front-to-back cooling that's very quiet! It also includes redundant 100G Ethernet for full SMPTE-2022-7 compliance, dual redundant AC power supplies and a separate NMOS control port for connecting to control networks!

**\$2,679**

## Connections

### 100G 2110 IP Networks

2 x 100G QSFP28 connections. Supports ST 2022-7 redundant delivery of IP streams over two 2110 networks.

### Senders and Receivers per 100G

#### Camera

8 x Ultra HD or HD.

### 1G Control Network

1 x 1G RJ45 for NMOS control, configuration and firmware updates.

### SMPTE ST 2110 IP Audio Inputs

16 Ch embedded audio on each 2110 IP video stream over 100G Ethernet.

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### Analog Audio Outputs

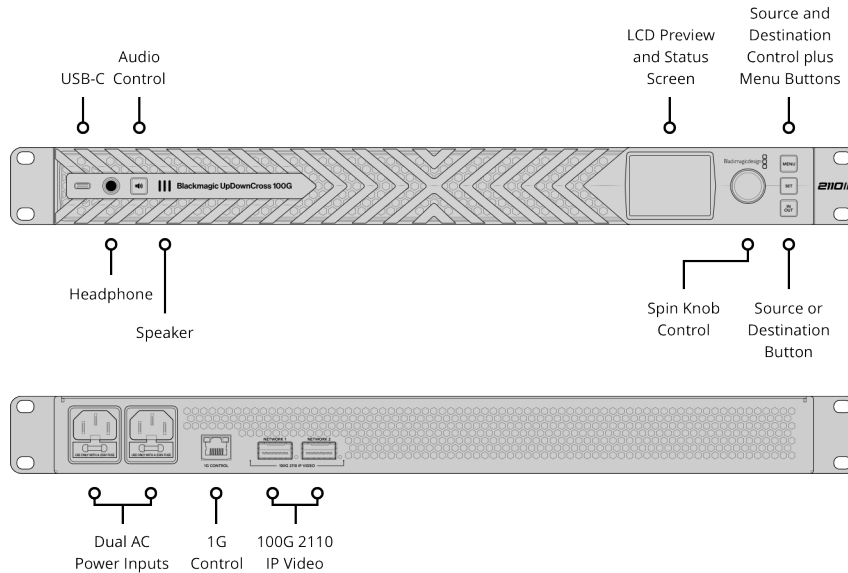
1 x 6.35 mm headphone jack.

### Computer Interface

1 x USB-C for configuration and firmware updates.

### Power

2 x IEC C14 power inputs.



## 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,  
 1080PsF25, 1080PsF29.97, 1080PsF30

### Ultra HD Video Standards

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

### SMPTE Compliance

SMPTE 2110-20, SMPTE 2110-21,  
 SMPTE 2110-30, SMPTE 2110-40,  
 SMPTE 2022-7

### Audio Sampling

Television standard sample rate of 48 kHz and 24 bit.

### Color Precision

10-bit 4:2:2 YUV

### Color Space

Rec. 709, Rec. 2020

## 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 optional for 2160p59.94 and 2160p60 as 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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## Audio

### Headphones

Front panel headphone outputs active monitor.

### Built in Speaker

Front panel mono speaker outputs active monitor.

### Audio Controls

Front panel button functions as single press for momentary speaker ON, double press for speaker ON / OFF plus press and hold for volume control using search dial.

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## Displays

### Display

Built in 2.2 inch LCD for monitoring video, audio, video standard and timecode plus menu settings. Use search dial to scrub between all available inputs and monitor on front panel.

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## Control

### Built in Control Panel

2.2 inch color display, 3 button control panel and spin knob for source and destination setup and menu settings.

### External Control

RJ-45 Ethernet and USB-C.

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## Operating Systems



Mac 15.0 Sequoia,  
Mac 26.0 Tahoe or later.



Windows 11

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## Power Requirements

### Power Supply

2 x 100 - 240V AC 50/60Hz internal power supplies.

### Power Inputs

2 x IEC C14 sockets.

### Power Usage

TBC

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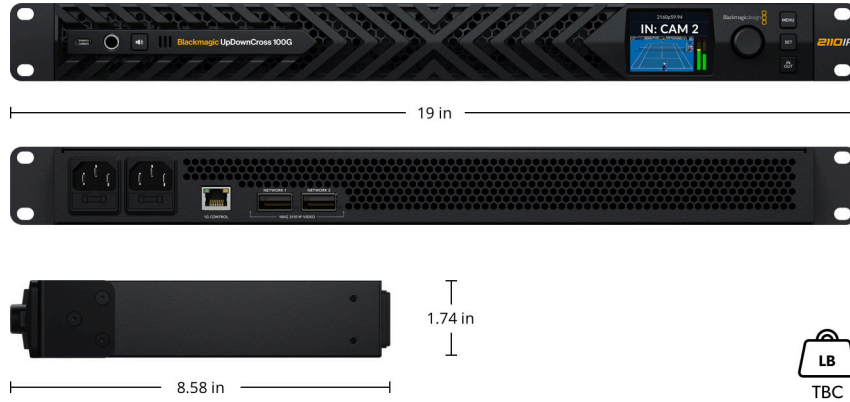
## Physical Installation

1 rack unit.

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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 UpDownCross 100G

Welcome wallet with QR code for software download

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## Warranty

1 Year Limited Manufacturer's Warranty.

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