

HyperDeck ISO Recorder 100G



HyperDeck ISO Recorder 100G is designed for live production, recording 8 cameras at the same time. Record for later editing or get exciting live-action replay with DaVinci Resolve! Files are recorded in broadcast-quality ProRes format direct to network storage for very long record durations. It connects via SMPTE-2110 100G Ethernet, so all 8 video channels run over a single connection. Or add a Blackmagic SDI Expander 8x12G for 12G-SDI. You can also play back all 8 channels, great for testing!

\$5,495

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 Pair

8 x Ultra HD or 8 HD

100G Ethernet

2 x 100G QSFP28 connections.

10G Control Network

2 x 10G RJ45 Ethernet for NMOS control.

Reference Network

2 x RJ45 Ethernet for 2110 PTP clock.

1G Management

1 x RJ45 Ethernet. Supports 10/100/1000 BASE-T. For HyperDeck Setup utility and software updates.

SDI Monitor Outputs

2

HDMI Monitor Outputs

1

SDI Rates

1.5G, 3G, 6G, 12G.

Analog Audio Outputs

1 x 6.35 mm headphone jack.

SMPTE ST 2110 IP Audio Inputs

Up to 64 Ch embedded audio on each 2110 IP video stream over 100G Ethernet.

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Up to 64 Ch embedded audio on each 2110 IP video stream over 100G Ethernet.

SDI Audio Outputs

16 channels embedded audio.

HDMI Audio Outputs

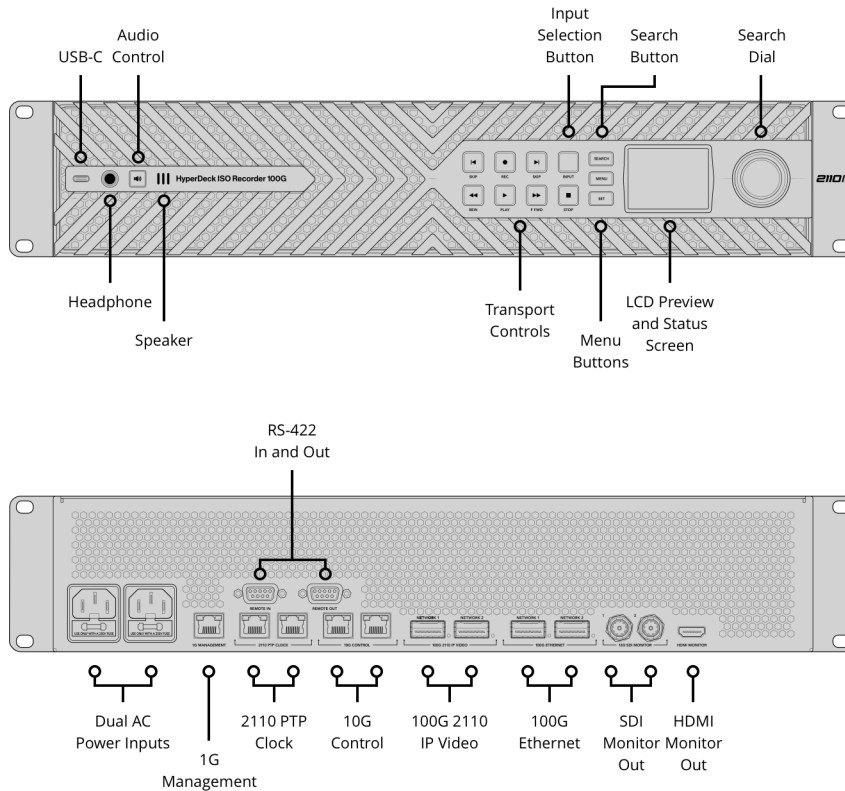
8 channels embedded audio.

Computer Interface

1 x USB-C for HyperDeck Setup utility and software updates.

Power

2 x IEC C14 power inputs.



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 DCI Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,
 4Kp29.97 DCI, 4Kp30 DCI

SMPTE Compliance

SMPTE 2110-20, SMPTE 2110-21,
 SMPTE 2110-30, SMPTE 2110-40,
 SMPTE 2022-7, SMPTE 292M, SMPTE
 296M, SMPTE 424M, SMPTE 425M
 level A and B, SMPTE 2081-1, SMPTE
 2081-10, SMPTE 2082-1, SMPTE
 2082-10, SMPTE 2084, SMPTE 2108-1.

Supported HDMI Formats

720p50, 720p59.94, 720p60
 1080i50, 1080i59.94, 1080i60
 1080p23.98, 1080p24, 1080p25,
 1080p29.97, 1080p30, 1080p50,
 1080p59.94, 1080p60
 2160p23.98, 2160p24, 2160p25,
 2160p29.97, 2160p30, 2160p50,
 2160p59.94, 2160p60

Audio Sampling

Television standard 24-bit, 48 kHz
 sample rate.

Video Sampling

4:2:2 YUV

Color Precision

10-bit

Color Space

Rec. 709, Rec. 2020.

HDR Support

Hybrid Log-Gamma, ST2084 300,
 ST2084 500, ST2084 800, ST2084
 1000, ST2084 2000, ST2084
 4000, ST2084.

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

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.

Processing

ProRes Encoder

Built-in hardware encoder supports up to 8 x Ultra HD simultaneous real-time ProRes encoding.

Media

Media

Records over 100G Ethernet to
network storage.

Supported Codecs

Video Codecs

ProRes HQ QuickTime, ProRes 422 QuickTime, ProRes LT QuickTime, ProRes Proxy QuickTime for all formats up to 2160p60.

Audio Codecs

PCM 2, 4, 8 or 16 Channels.

Control

Built in Control Panel

16 buttons for transport and device control with search dial featuring electronic clutch and 2.2 inch color display.

External Control

RS-422 deck control, 2110 IP video start/stop, timecode run. Includes Blackmagic HyperDeck Ethernet Protocol and REST API for HyperDeck. Supports remote FTP and HTTP Web Media Manager.

Displays

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.

Software

Software Included

Blackmagic OS
Blackmagic HyperDeck Setup

Internal Software Upgrade

Loaded at system start, or via Blackmagic HyperDeck Setup using USB port.

Operating Systems



Mac 15.0 Sequoia,
Mac 26.0 Tahoe or later.



Windows 11

Power Requirements

Power Supply

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

Power Input

2 x IEC C14 sockets.

Power Usage

TBC

Accessories

Optional Accessories

HyperDeck Extreme Control
Blackmagic Cloud Store Ultra

Physical Installation

2 rack units height.

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

HyperDeck ISO Recorder 100G
Welcome wallet with QR code for
software download

Warranty

1 Year Limited Manufacturer's
Warranty.

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