

HyperDeck Studio 4K Pro



For extreme power, the HyperDeck Studio 4K Pro has all the features of the HD models, combined with incredible processing for working in Ultra HD. This model's SDI has been upgraded to full 12G-SDI with a loop 12G-SDI output. The two SDI outputs are both 12G-SDI so you can play ProRes 4444 files for true Ultra HD fill and key out. The HDMI connections and the ProRes and DNx file formats all switch between SD, HD and Ultra HD television standards. Like the other models, H.264 is included for SD and HD, but then switches to H.265 when recording in Ultra HD. Even the networking has been upgraded to 10G Ethernet for incredible speed! You also get 2 redundant AC power supplies!

Connections

SDI Video Inputs 1	Audio Output 1 x 6.35 mm headphone jack.	HDMI Audio Outputs 8 channels embedded audio.
SDI Video Outputs 2	Screen 2.2 inch LCD.	Remote Control 1 x RS-422 In, 1 x RS-422 Out.
SDI Monitor Outputs 1	Timecode Connections 1 x XLR In, 1 x XLR Out.	Recorder Configuration Via user interface or Blackmagic HyperDeck Ethernet Protocol.
SDI Rates 270Mb, 1.5G, 3G, 6G, 12G.	Reference Connections 1 x BNC In, 1 x BNC Out. Tri-Sync or Black Burst.	Ethernet 10Gb/s
HDMI 2.0 Video Inputs 1	SDI Audio Inputs 16 channels embedded audio.	Computer Interface 1 x USB Type-C 3.1 Gen 2 (up to 10Gb/s) for external drive recording, webcam out, software configuration and updates.
HDMI 2.0 Video Outputs 1	SDI Audio Outputs 16 channels embedded audio.	
Built in Speaker Mono	HDMI Audio Inputs 8 channels embedded audio.	

Operating Systems



Mac 10.15 Catalina,
Mac 11.1 Big Sur or later.



Windows 10, 64-bit.

Displays

Built in 2.2 inch LCD for video, audio and timecode monitoring and menu settings.
LED bezel indicator lights around SSD media slots and LED indicator lights above the SD media slots.

Power Requirements

Power Supply	Power Usage
2 x Internal 100 - 240V AC 50/60Hz. 1 x 4 pin XLR 12V DC In for external power supplyor battery use.	100 W max.

Accessories

Optional Accessories
HyperDeck Extreme Control

Physical Installation

1 rack unit height.

Color Precision 10-bit	HDR Support Hybrid Log-Gamma, ST2084 300, ST2084 500, ST2084 800, ST2084 1000, ST2084 2000, ST2084 4000, ST2084.	Copy Protection HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.
Color Space REC 601, REC 709, REC 2020. 33 point 3D LUTs can be applied to SDI monitor out.	Multi Rate Support Auto detection of SD, HD, 6G-SDI and 12G-SDI.	

Media

Media 2 x 2.5 inch disc slots 2 x SD card slots 1 x USB-C 3.1 Gen 2 expansion port for external recording of SD, HD, 2K DCI, Ultra HD and 4K DCI. Please refer to either the Manual or the Information Note at www.blackmagicdesign.com/support for compatible media.	Media Type SATA-II or SATA-III 2.5 inch solid state media. UHS-I and UHS-II SD cards. Media Format Can format media to ExFAT (Windows/Mac) or HFS+ (Mac) file systems.
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Supported Codecs

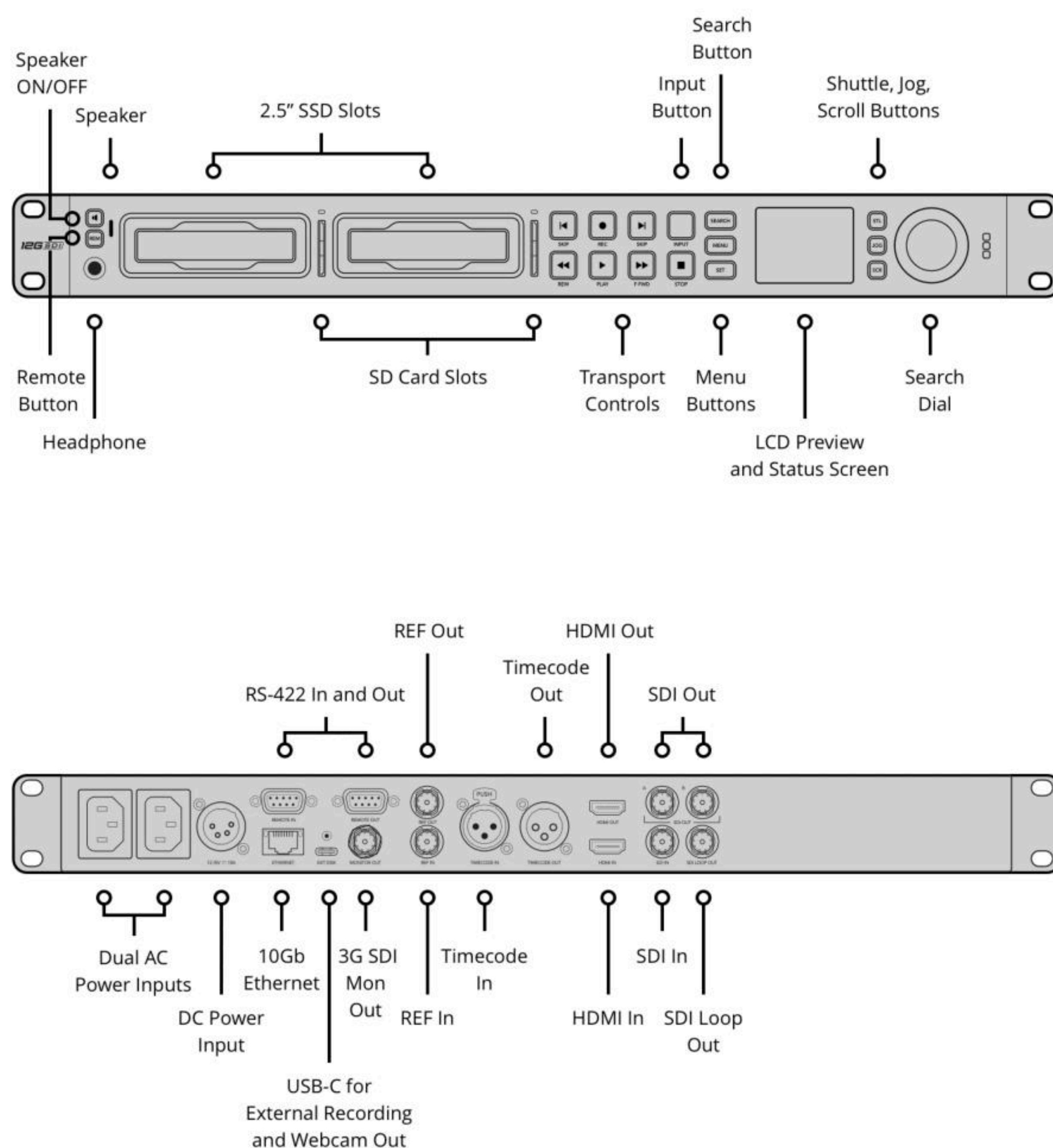
ProRes HQ QuickTime, ProRes 422 QuickTime, ProRes LT QuickTime, ProRes Proxy QuickTime for all formats up to 2160p60. Playback only of ProRes 4444 QuickTime up to 1080p60 with auto routing of fill and key over SDI A and B outputs. DNxHD 220x, DNxHD 220x MXF, DNxHD 145, DNxHD 145 MXF, DNxHD 45, DNxHD 45 MXF for 720p and 1080p HD formats up to 60fps. DNxHR HQX, DNxHR HQX MXF, DNxHR SQ, DNxHR SQ MXF, DNxHR LB, DNxHR LB MXF for 2K DCI and 2160p formats up to 60fps. H.265 SDI 4:2:2 10-bit, H.265 High 4:2:0 10-bit, H.265 Medium 4:2:0 10-bit, H.265 Low 4:2:0 10-bit for all 2160p formats up to 60 fps. H.264 SDI 4:2:2 10-bit, H.264 High 4:2:0 8-bit, H.264 Medium 4:2:0 8-bit, H.264 Low 4:2:0 8-bit for all formats up to 1080p60.

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, SDI start/stop, timecode run. Includes Blackmagic HyperDeck Ethernet Protocol. Supports remote FTP file upload.
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Software

Software Included
Blackmagic OS Blackmagic HyperDeck Setup Internal Software UpgradeLoaded at system start, or via Blackmagic HyperDeck Setup using USB port.



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, 1080p50,
1080p59.94, 1080p60
1080PsF23.98, 1080PsF24,
1080PsF25, 1080PsF29.97, 1080PsF30

2K DCI Video Standards

2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,
2Kp29.97 DCI, 2Kp30 DCI

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

SDI Compliance

SMPTE 259M, SMPTE 292M,
SMPTE 296M, SMPTE 372M,
SMPTE 424M, SMPTE 425M
level A and B, SMPTE 2081-1,
SMPTE 2081-10, SMPTE 2082-1,
SMPTE 2082-10, SMPTE 2084 and
SMPTE 2108-1.

SDI Metadata Support

HD RP188 and closed captioning
CEA-708. HDR Metadata supported
on SDI.

Supported HDMI Formats

525i59.94 NTSC, 625i50 PAL,
720p50, 720p59.94, 720p60,
1080i50, 1080i59.94, 1080i60,
1080p23.98, 1080p24, 1080p25,
1080p29.97, 1080p30, 1080p50,
1080p59.94, 1080p60,
2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,
2Kp29.97 DCI, 2Kp30 DCI,
2160p23.98, 2160p24, 2160p25,
2160p29.97, 2160p30, 2160p50,
2160p59.94, 2160p60,
4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,
4Kp29.97 DCI, 4Kp30 DCI

Audio Sampling

Television standard 24-bit, 48 kHz
sample rate.

Video Sampling

4:2:2 YUV

Physical Specifications



Environmental Specifications

Operating Temperature	Storage Temperature	Relative Humidity
0° to 40° C (32°to 104° F)	-20° to 60° C (-4° to 140° F)	0% to 90% non-condensing

What's Included

HyperDeck Studio 4K Pro

Warranty

12 Month Limited Manufacturer's Warranty.

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