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# Blackmagic Design HyperDeck Studio HD Mini

BH # BLHDSHDM • MFR # HYPERD/ST/DAHM





## Principais características

- 1 x entrada 3G-SDI
- 1 x saídas HDMI e 1 x 3G-SDI
- Grava ProRes, DNxHD e H.264
- Registros em H.264 SDI 4:2:2 10 bits
- Botões do painel frontal, roda de controle, LCD
- Código de tempo e entrada/saída de referência
- Fator de forma montável em rack 1/3
- USB-C, Ethernet 1G, RS-422

## Na caixa

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Blackmagic Design HyperDeck Studio HD Mini

Garantia limitada do fabricante de 1 ano

# Blackmagic Design HyperDeck Studio HD Mini Overview

Take a compact broadcast-quality record/playback deck with you on location, in the studio, or built into a rack with the **Blackmagic Design HyperDeck Studio HD Mini**. The 1 RU tall recorder is 1/3 of a rack wide and powers from 100 to 240 VAC or via an optional 12 VDC power supply for portability. Featuring one 3G-SDI input, one each HDMI and 3G-SDI output, and a USB-C webcam output, the recorder is flexible, enabling you to input, record, and output/stream simultaneously. Supporting both reference and timecode in/out, this unit fits perfectly into a broadcast environment, and you can use one recorder to create an ISO recording of each camera with perfect sync for live and post-production work.

Two SD card slots allow you to capture with virtually unlimited recording time, and the unit also supports recording to USB disks via the USB-C output port. The HyperDeck Studio HD Mini features a front-panel button control and a jog/shuttle wheel for an analog scrubbing feel. RS-422 control is supported for external control, and you can also control the unit using either the USB port or over Ethernet at 1G speeds for faster deck control and file transfers via the RJ45 connector. An integrated LCD on the front panel allows you to monitor the video.

## Video Inputs

It supports SD, HD, and select 3G signals over SDI

## Supported Codecs

- ProRes: Apple ProRes 422 HQ QuickTime, ProRes 422 QuickTime, ProRes 422 LT QuickTime, ProRes 422 Proxy QuickTime.
- DNxHD: DNxHD 220x, DNxHD 220x MXF, DNxHD 145, DNxHD 145 MXF, DNxHD 45, DNxHD 45 MXF for 720p and 1080p HD formats up to 60 fps
- H.264: 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 progressive formats up to 1080p60

## VTR-Style Controls

Features VTR-style front-panel controls for recording and playback; a built-in jog/shuttle wheel provides analog-style control over your playback

## Remote

The unit is controllable via RS-422 control and over the Ethernet or USB port

## Built-In LCD Monitor

The unit's front panel also features a built-in LCD screen that allows you to monitor input or play back video

## Included Software

The HyperDeck Studio HD Mini includes Blackmagic OS and Blackmagic HyperDeck Setup

# Blackmagic Design HyperDeck Studio HD MiniSpecs

## Connectivity

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Video Inputs

1 x BNC, 3G-SDI

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|                 |                                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------|
| Video Output    | 1 x BNC, 3G-SDI<br>1 x HDMI Type A<br>1 x USB Type-C (Webcam or External Recording of SD, HD, 2K) |
| Timecode        | In: 1 x BNC<br>out: 1 x BNC                                                                       |
| Reference       | <b>Tri-Sync or Black Burst</b><br>Input Connector: 1 x BNC<br>Output Connector: 1 x BNC           |
| Audio Input     | None (Embedded Audio Only, 16 Channels)                                                           |
| Audio Output    | None (Embedded Audio Only, 16 Channels SDI, 8 Channels HDMI)                                      |
| Device Control  | 1 x RS-422 Deck Control Port on DB9 Female                                                        |
| Ethernet        | 1 x RJ45 for Remote Operation                                                                     |
| Media Interface | 2 x SD Slots<br>Media Type: UHS I and UHS II<br>Format: ExFAT or HFS+                             |

# Standards

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|                       |                                                                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported Resolutions | <div><div><b>2K</b></div><div>2048 x 1080p: 30/29.97/25/24/23.98</div></div> <div><div><b>HD</b></div><div>1920 x 1080p: 60/59.94/50/30/29.97/25/24/23.98</div><div>1920 x 1080i: 60/59.94/50</div><div>1280 x 720p: 60/59.94/50</div></div> <div><div><b>SD</b></div><div>NTSC</div><div>PAL</div></div> |
| SDI Compliance        | <div>SMPTE 259M//292M/296M/372M/424M/425M Level A and B</div> <div>SMPTE 2084</div> <div>SMPTE 2108-1</div>                                                                                                                                                                                               |
| SDI Metadata Support  | <div>HD RP188 and Closed Captioning CEA-708</div> <div>HDR Metadata Supported on SDI</div>                                                                                                                                                                                                                |
| Video Sampling        | <div>4:2:2 YUV</div>                                                                                                                                                                                                                                                                                      |
| Color Depth           | <div>10-Bit</div>                                                                                                                                                                                                                                                                                         |

|                    |                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Color Space        | REC 601<br>REC 709<br>REC 2020                                                                                                                                                                                                                                                                                                                                                              |
| HDR Support        | Hybrid Log-Gamma, ST2084 300, ST2084 500, ST2084 800, ST2084 1000, ST2084 2000, ST2084 4000, ST2084                                                                                                                                                                                                                                                                                         |
| Multi Rate Support | Autodetection of SD and HD                                                                                                                                                                                                                                                                                                                                                                  |
| Audio Sampling     | Television Standard 48 kHz, 24-Bit                                                                                                                                                                                                                                                                                                                                                          |
| Supported Codecs   | <div><div>ProRes</div><ul style="list-style-type: none"><li>HQ QuickTime</li><li>422 QuickTime</li><li>LT QuickTime</li><li>Proxy QuickTime for Formats up to 1080p60</li></ul><div>DNxHD</div><ul style="list-style-type: none"><li>220x</li><li>220x MXF</li><li>145</li><li>145 MXF</li><li>45</li><li>45 MXF for 720p and 1080p HD Formats up to 60 fps</li></ul><div>H.264</div></div> |

- SDI 4:2:2 10-Bit
- High 4:2:0 8-Bit
- Medium 4:2:0 8-Bit
- Low 4:2:0 8-Bit for Progressive Formats up to 1080p60

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# System Requirements

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|                  |                                                                       |
|------------------|-----------------------------------------------------------------------|
| Operating System | macOS: 10.15(Catalina), 11.5 (Big Sur) or Later<br>Windows: 10 64-Bit |
|------------------|-----------------------------------------------------------------------|

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# General

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|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| Rack Height           | 1 RU                                                                                        |
| Power Supply          | <b>AC</b><br>100 to 240 VAC, 50/60 Hz<br><br><b>DC</b><br>12 VDC; 1 x Locking 5.5 mm Barrel |
| Operating Temperature | 41 to 122°F / 5 to 50°C                                                                     |

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|                     |                                            |
|---------------------|--------------------------------------------|
| Storage Temperature | -4 to 113°F / -20 to 45°C                  |
| Relative Humidity   | 0 to 90% Non-Condensing                    |
| Dimensions          | 6.96 x 5.51 x 1.74" / 17.68 x 14 x 4.42 cm |
| Weight              | 1.8 lb / 0.82 kg                           |

## Packaging Info

|                        |                 |
|------------------------|-----------------|
| Package Weight         | 2.3 lb          |
| Box Dimensions (LxWxH) | 11.6 x 7 x 2.6" |