



Blackmagic Design HyperDeck Extreme 4K HDR

ProdCode: BMDHYPERDRSTEX4

Powerful Ultra HD touchscreen HyperDeck records and plays H.265 and ProRes files in all SD, HD and Ultra HD standards up to 2160p60

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Features

- Powerful Ultra HD touchscreen HyperDeck records and plays H.265 and ProRes files in all SD, HD and Ultra HD standards up to 2160p60
- Perfect for Live Production, Digital Signage and Archive
- Big Bright Screen for Easy Touch Control
- Traditional Broadcast Deck Controls
- Dual CFast Media for Non Stop Recording
- Advanced HDR Support and Bright Wide Gamut LCD
- Built In Scopes
- Professional Multi Channel SDI and Analogue Audio
- Traditional RS-422 Broadcast Deck Control

Powerful Ultra HD touchscreen HyperDeck records and plays H.265 and ProRes files in all SD, HD and Ultra HD standards up to 2160p60. Includes scopes, upgradable cache plus SDI, HDMI and analogue video.

HyperDeck Extreme features the trusted reliability of HyperDeck combined with new innovations such as space saving H.265 files, optional internal cache, 3D LUTs and HDR support! With the ability to record up to native 8K in H.265, you get reduced storage costs and amazing image quality. The large touch screen ensures a perfect view of your recording as well as control over all deck settings. You can then add HyperDeck Extreme Control to transform it into a traditional broadcast deck! This means HyperDeck Extreme is the perfect solution for the next generation of broadcast, live production and digital signage.

Modern Design with Traditional Controls

HyperDeck Extreme has an innovative touch screen user interface with deck controls as well as a large screen to view your recording. Then add a HyperDeck Extreme Control for traditional broadcast deck controls and a large shuttle knob that feels incredibly luxurious to use. You can even rack mount the HyperDeck and the controller. HyperDeck Extreme also includes 2 media slots, 12Gb/s SDI, analogue connections for archiving, USB-C external disk recording, plus a front panel speaker and headphone jack. There's also an optional cache that eliminates dropped frames if your media becomes full or is too slow. Both AC and DC power connections are also included for studio or on location use.

Perfect for Live Production, Digital Signage and Archive

With its amazing versatility, HyperDeck Extreme is also great for live production as a master recorder, clip player and for recording ISO cameras. The analogue inputs allow you to record from old video tapes, so legacy programming can be used on the latest streaming services or for use in editing. Digital signage is easy with HyperDeck Extreme as it has 10G Ethernet for fast media uploads, plus it features a simple remote control protocol. You can even use it as a field recorder as it includes HDMI, SDI and analogue inputs with built in scopes and 3D LUTs. The scopes also help you QA masters to ensure compliance with broadcast standards before streaming and broadcast.

Convert Legacy Programming for Streaming

As streaming services have become common, preserving cultural diversity through

maintaining localized content is increasingly important. The solution is to get each country's legacy programs onto streaming services at an affordable cost. HyperDeck Extreme Control lets you connect to legacy broadcast decks, set an in and an out point, then edit. Just add HyperDeck Extreme and HyperDeck Extreme Control to each legacy deck to keep them all archiving constantly with just one operator. It's even possible to edit across formats by using Teranex Express to convert tapes from SD to HD in one step. You can control a wide range of decks, including Digital Betacam, 1 inch C format, and Betacam SP.

Big Bright Screen for Easy Touch Control

The innovative touch LCD user interface provides incredible control. On screen, there are dedicated buttons for play, stop and record, plus a mini timeline for scrolling through your recordings. You can even image swipe to jog. The LCD includes a heads up display of timecode, video standard, media status as well as audio meters. Scopes can be enabled via the touch screen as well as focus and exposure assist. There's also an extensive range of settings all controlled from the large LCD. Plus you can load and save 3D LUTs. You also get direct buttons for transport control, enabling the 3D LUT and remote enable. Then you can always add traditional deck controls with HyperDeck Extreme Control.

Traditional Broadcast Deck Controls

HyperDeck Extreme Control extends your HyperDeck Extreme to add traditional broadcast deck controls. It works like a traditional broadcast deck with a familiar layout. You can control up to 8 decks via industry standard RS-422 control. You can even rack mount to the HyperDeck Extreme to create a single "broadcast deck" unit. Because it uses standard RS-422, you can control old broadcast decks and perform edits using set in and out points. That's perfect for archiving work. Plus you can even edit between frame rates if standards converting between formats. Even the controls have been developed in-house by Blackmagic Design to ensure a premium feel with traditional styling.

Dual CFast Media for Non Stop Recording

CFast media support allows you to record to commonly available flash memory cards. The H.265 files are small enough to allow long recordings on standard CFast cards. Plus there are 2 CFast card slots so you can swap out any full cards even during recording, allowing infinite length recording. CFast cards are perfect for broadcast because they are small, high speed and affordable. You can even use a Blackmagic MultiDock 10G to add SSD compatibility. With H.265, you can record up to 1,398 minutes at 8Kp60 on a 1 TB card, 3,530 minutes in 2160p60 Ultra HD and 9,446 minutes in 1080p59.94 on a 1 TB card. That's over 23 hours in 8K and over 6 days in

HD.

Record Direct to External USB-C Media Disks

If recording to other media types is required, then the USB-C Expansion port lets you plug in an external flash disk for recording. USB-C flash disks have massive capacity as they don't suffer from any size constraint. Plus, it's possible to record to the same disk you are using or editing, so you don't need to waste time copying files before starting post production. Flash disks are so fast, they can record high data rate formats that are too big for CFast cards, such as real time ProRes in 4K or 8K. Adding a Blackmagic MultiDock 10G also makes it easy to use SSDs for compatibility with other HyperDeck models. You even get on screen menus for managing external disks using the touch screen.

Optional Media Cache Eliminates Dropped Frames

Sometimes your media can fill before you change to a blank card, or if the card is too slow, then you can get dropped frames in your recording. To eliminate this problem, you can install a PCIe flash disk into HyperDeck Extreme to use as a record cache. This eliminates problems with CFast media or external disks, as the cache will automatically take over and record any content the media could not capture. Even if a card fills, recording will continue to the cache until it's swapped. The cache even lets you record formats that are too fast for the media card or external disk. Common PCIe flash disks are used and a thermal pad is included to allow user installation.

Supports 12G-SDI, HDMI and Legacy Analogue

HyperDeck Extreme features a wide range of video and audio connections such as multi-rate 12G-SDI for SD, HD, Ultra HD and 8K devices. The 12G-SDI outputs support fill and key when playing RGBA 4:4:4:4 files. HDMI is included for consumer televisions and video projectors. For archiving work, HyperDeck also includes both balanced analogue, HiFi audio plus timecode connections. For monitoring there's even a down converted monitor SDI output that includes overlays. The USB-C connection lets you plug in flash disks or disk arrays for recording. The latest 10G Ethernet is included for high speed upload using FTP protocols. HyperDeck even includes both AC and XLR 12V DC power connections.

Advanced HDR Support and Bright Wide Gamut LCD

You'll be ready for the latest HDR workflows with support for the latest HDR standards and an extremely bright screen with a wide colour gamut. The built in scopes even change to HDR scopes when working in HDR formats. Files are tagged with the correct HDR information then SDI and HDMI inputs will also automatically detect HDR

video standards. Static metadata PQ and HLG formats are handled according to the ST2084 standard. The bright LCD has a wider colour gamut so can handle both Rec. 2020 and Rec. 709 colourspaces. The built in HyperDeck Extreme HDR LCD colour gamut can even handle 100% of the DCI-P3 format.

Built In Scopes Ensure Compliance to Broadcast Standards

HyperDeck Extreme features full internal waveform monitoring so you can ensure compliance to broadcast standards when used on high end work. The waveform display provides a traditional luminance (brightness) levels view of your input or playback signal. The vectorscope display allows you to see the intensity of colour at 100% SDI reference levels. You also get RGB and YUV parade displays which are ideal for colour correction and checking for illegal levels. Histogram shows the distribution of white to black detail in your images and highlights or shadows clipping. The built in scopes can be overlaid on live video, or as a small picture in picture view at the top right of the scope.

Latest MultiRate 12G-SDI for SD, HD and Ultra HD

You get full support for the most popular video standards. The SDI and HDMI connections are multi-rate, so handle SD, HD and Ultra HD. SD formats include NTSC and PAL. 720p HD standards include 720p50 and 59.94p. 1080i HD interlaced formats include 1080i50 and 59.94. 1080p HD formats include 1080p23.98, 24, 25, 29.97, 30, 50, 59.94 and 60p. You can even do 1080 PsF formats. Ultra HD is supported up to 2160p59.94. 2K and 4K DCI rates are available up to 25p.

Standard H.265 and ProRes Files for Wide Compatibility

H.265 files are extremely small and range from 60:1 to 285:1 compression ratios which means much lower file sizes. Plus H.265 is now supported on all major operating systems. HyperDeck Extreme even supports ProRes 422 HQ, ProRes 422, ProRes 422 LT for recording and playback plus ProRes 4444 for playback to fill and key out. This means files will be compatible with software such as DaVinci Resolve, Media Composer, Premiere Pro or Final Cut Pro.

Professional Multi Channel SDI and Analogue Audio

HyperDeck Extreme includes professional audio for modern broadcasters or archiving from older broadcast decks. When working in SDI formats, you can record 2, 4, 8 or 16 channels of audio in real time. For capturing legacy programming there are 4 XLR analogue audio inputs that let you record all 4 channels from Betacam SP decks. You can monitor using 4 on screen audio meters with user selectable VU or PPM ballistics. For consumer devices such as VHS, DVD and set top boxes, there are also

direct HiFi audio inputs. HyperDeck Extreme models use the latest broadcast technology, however the analogue connections have also been designed to low noise and low distortion broadcast specifications.

Localized for Popular Languages

Multiple languages are fully supported so you don't need to learn another language to use it. Support is included for English, Chinese, Japanese, Korean, Spanish, German, French, Russian, Italian, Portuguese and Turkish. At first start, HyperDeck Extreme will display a menu for selecting a language, plus you can still use the menus to change languages any time you need. When a language is selected, the on screen text overlays will change, as well as all menus and the overlays on the SDI monitoring output will also be displayed with the selected language. All this means HyperDeck is perfect for doing international location work with different crews.

The Fastest Networking with Modern 10G Ethernet

With 10G Ethernet, HyperDeck Extreme is perfect for digital signage because remote uploads are extremely fast. What's amazing is the ethernet uploads on HyperDeck Extreme are much faster than CFast card transfer speeds. Both models use an easy text based protocol plus you can use Telnet to test control commands. Simply log into HyperDeck and then type "play" or "record" and it will execute the command. It's that simple. To upload media files remotely, you can use FTP, or even use simple FTP client software. When the ethernet protocol and FTP is used with large USB-C disk arrays, HyperDeck Extreme becomes a great broadcast server for ingest, media management and play out.

Traditional RS-422 Broadcast Deck Control

The most popular control connection used on broadcast decks since the early 1980s is the RS-422 protocol. Originally developed by Sony, RS-422 is used on almost all broadcast gear. HyperDeck Extreme features wide protocol support so you can connect it direct to broadcast systems. It also supports extra commands for the Advanced Media Protocol for managing disk recorders. When designing RS-422 control solutions, you'll know you're connected to a HyperDeck Extreme when you see the ID 0xF0E0 in 30/60p, 0xF1E0 in 25/50p or 0xF2E0 in 24p. The full set of support remote commands are included in the instruction manual and you can download this from the support page of our web site.

Compatible with Controllers, Switchers, Converters and More

There's a wide range of Blackmagic Design products you can use with HyperDeck Extreme, including the HyperDeck Extreme Control for adding traditional broadcast

deck controls. Plus it uses the industry standard RS422 deck control protocol so it works with any broadcast deck. Add the Blackmagic MultiDock 10G to use regular SSDs for compatibility with media from other HyperDeck models. HyperDeck Extreme is also a perfect mastering recorder with the ATEM Constellation 8K, or for clip playback and ISO recording. For monitoring, the Teranex SDI to HDMI 8K allows broadcast monitoring on a television and it also has monitor calibration, 3D LUTs and on screen scopes.

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