

# Blackmagic Duplicator 4K

Blackmagicdesign 



**H.264**  
MPEG-4/AVC

**H.265**  
MPEG-4/AVC



SD cards not included.



## Blackmagic Duplicator 4K

Now you can realtime encode, duplicate and sell Ultra HD content to customers at live events!

The Blackmagic Duplicator 4K makes it easy to deliver multiple copies of content to customers the moment an event is finished! You get an SD card duplicator with built in realtime H.264 and H.265 encoding. H.264 works with the devices you have today, while H.265 is the new standard for delivering Ultra HD. The Blackmagic Duplicator 4K is the best way to deliver Ultra HD content that customers can actually view

on their 4K televisions today! The multi rate 12G-SDI connections let you record in all SD, HD and Ultra HD formats, up to 2160p60. H.264 and H.265 encoding gives you high quality video in smaller files so you can use smaller and cheaper SD cards. You can even connect multiple duplicators together to make hundreds of recordings all at once!

# Compact Design

Incredibly small, expandable design for duplicating and selling content anywhere!

The Blackmagic Duplicator 4K features a slim, lightweight design that can easily fit into a mini rack so you can take it anywhere. Portable racks can be filled with multiple duplicators so you can create hundreds of copies simultaneously. You can connect either a single camera to the

Blackmagic Duplicator 4K or the output from your ATEM switcher if you're working on live multi camera events. The large record and stop buttons make it simple to operate from the front panel and, with RS-422 remote control, you can control multiple duplicators from a single unit!



Machined Aluminum Front



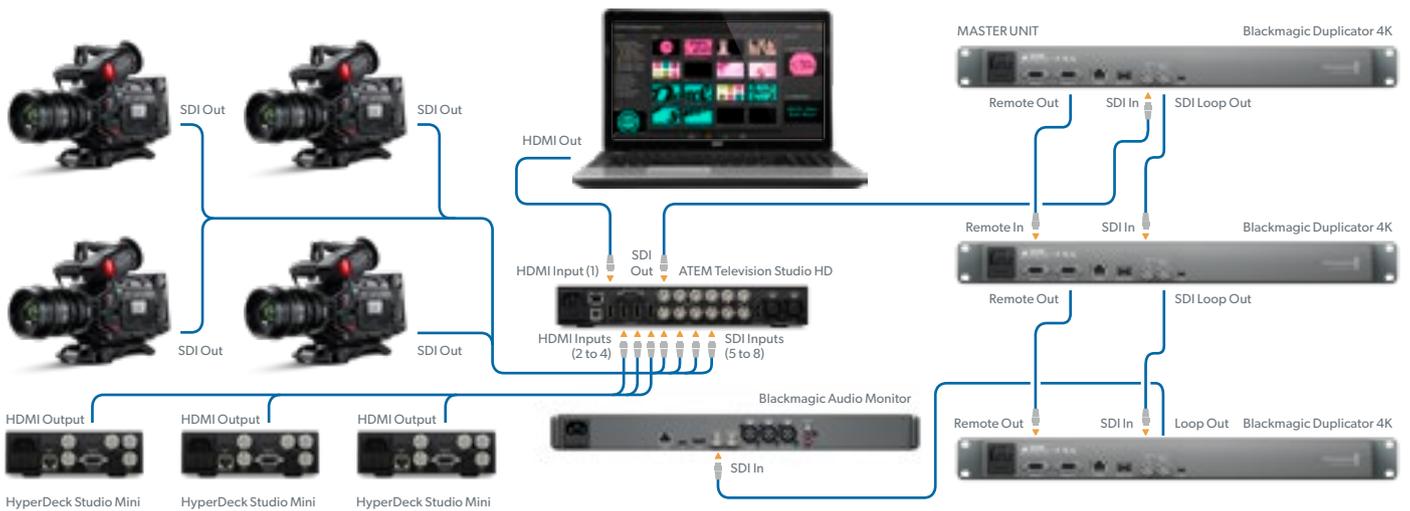
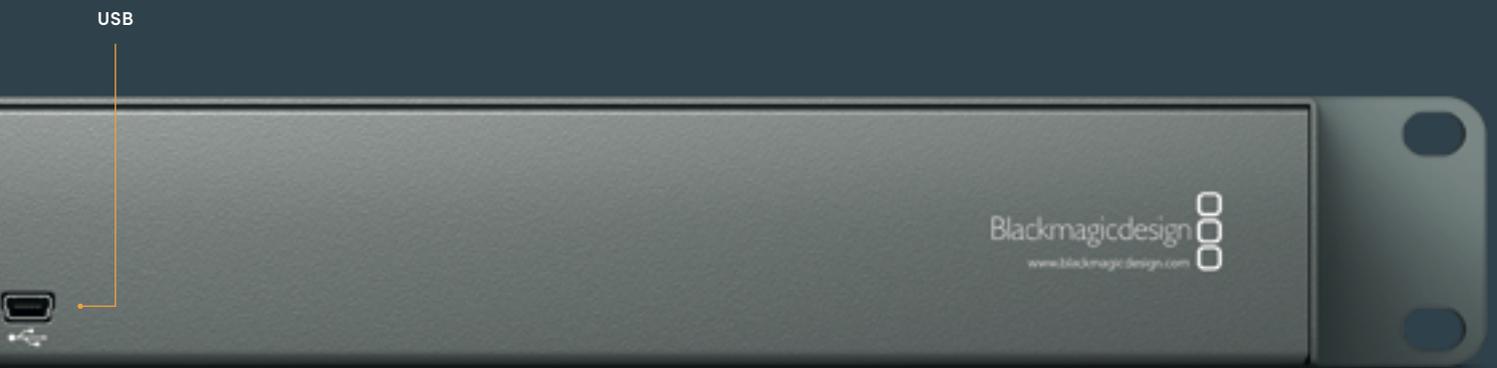
# Live Event Workflow

Create programs during live events!

With Blackmagic Duplicator 4K and ATEM Television Studio HD you can turn any live event into a broadcast quality television program that you can sell and distribute the moment it's over! ATEM Television Studio HD is a live production switcher with 4 SDI and 4 HDMI inputs so you can connect up to 8 sources such as cameras, decks, computers, or even video game consoles. You get clean, professional switching, broadcast quality effects like transitions, dissolves, and keys, and even titles and graphics! Simply connect your sources to ATEM Television Studio HD, then connect its SDI output to one or more Blackmagic Duplicator 4K units and start recording live!



Realtime encode, duplicate and sell Ultra HD content to customers at live events!





## Ultra HD Distribution

Record in H.264 and H.265 standards!

The Blackmagic Duplicator 4K records video in an open file format using H.265, which is the new standard for Ultra HD delivery. For maximum compatibility with existing HD televisions and some computers, you can also choose to record using H.264. SD cards can contain SD, HD or Ultra HD video and work with both Mac and Windows computers.

You can even use a USB adapter to plug them directly into your Ultra HD television set! Unlike proprietary disc based formats, like Blu-Ray, you don't have to buy a slow and expensive player. The Blackmagic Duplicator 4K is the easiest, most compatible and cost effective way to distribute Ultra HD content today!

## Deliver Ultra HD

Content that customers can view on their 4K TVs today!

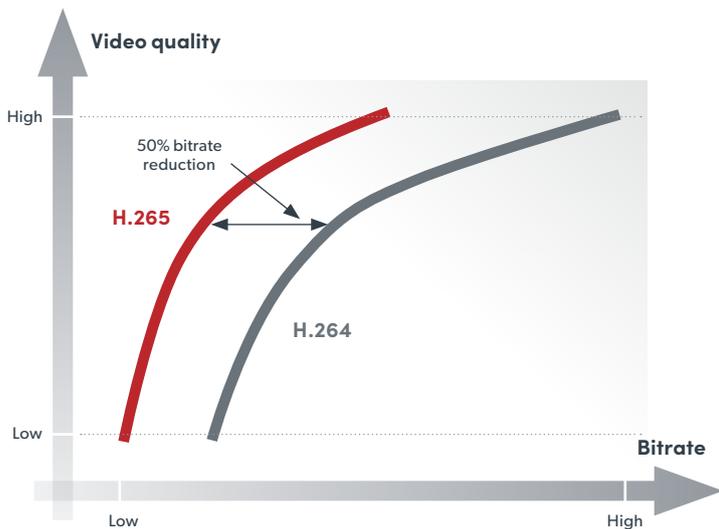
With 4 times the resolution of regular HD, Ultra HD is the future of television! With estimates that over 70% of televisions sold worldwide are Ultra HD, that means Ultra HD is here now. The promise of Ultra HD is stunning, crystal clear images that have much better color and far more detail than regular HD. Until now, there's been no way to deliver high quality 4K to consumer televisions. The Blackmagic Duplicator 4K lets you deliver Ultra HD content directly to your customers that they can play on their Ultra HD televisions today!

Television Purchases 2016

Ultra HD 70%

HD 30%





## Next Generation H.265

The new standard for Ultra HD delivery!

The Blackmagic Duplicator 4K can encode video using the latest H.265, which is the new standard for Ultra HD delivery! You get realtime hardware encoding for incredible looking Ultra HD video, even at high frame rates up to 2160p60. The files are small, the image quality is incredible and the data rates are low enough to play back from standard SD card media! You can even play back Ultra HD 2160p60, which is 4 times the size of regular HD and twice the frame rate! Now you can deliver dramatically better looking video to your customers using small and affordable SD cards!



## Rapid Card Formatting

Quickly format all cards without using a computer!

With the Blackmagic Duplicator 4K you can easily load and format all 25 cards from the front panel at the same time. That means you don't have to format them one at a time on your computer! At the end of the event you can take cards out as you sell them and because the cards are re-usable, you can simply reformat and record over the unsold cards at your next event!



## Create Unlimited Copies

Record hundreds of copies in real time!

For larger events, you can connect multiple Blackmagic Duplicator 4Ks together and record an unlimited number of copies, all at the same time! Simply loop the RS-422 deck control and SDI video to multiple duplicators, then start recording on the first one. When you push a button on the front panel of the first unit, it sends the command out via the RS-422 remote and into all of the connected units so they all start recording simultaneously! You can set up a road case with enough duplicators to handle massive events and because the cards are re-usable, you never have to worry about wasting media because you can simply record over them again later!



## Control Panel

Make dozens of recordings with the touch of a button!

The front panel of the Blackmagic Duplicator 4K is designed to make duplicating content as easy as possible. There are 6 large, illuminated buttons for record, stop, lock, append, menu and remote. The lock button prevents you from accidentally interrupting recording during an event, and the append button automatically merges incoming video into a single file, even if the camera starts and stops. The menu button lets you use the high resolution built in LCD to adjust other settings, and the remote button puts the duplicator into slave mode so it can be controlled remotely.



2.2"  
(actual size)

## Status Screen

Clear and bright monitor for set up and video preview!

The built in LCD screen on the front panel shows you a full color preview of the live video. The screen can show overlays with critical clip metadata such as audio levels, recording status and resolution. You can also use the LCD screen to navigate additional settings such as compression data rate, total number of mounted cards, SDI start/stop triggers and more, all on the same display!

## Small, Low Cost SD Cards

Readily available, super thin, inexpensive and high speed!

There's no better way to deliver content than with super small, high speed SD cards! SD cards are readily available, affordable and are compatible with computers and TVs! Plus, when it comes to packaging content quickly, they're easy to label and put into attractive, presentable wallets that look great at point of sale. The Blackmagic Duplicator 4K records using H.264 or H.265, so you can easily fit a one hour Ultra HD program onto an inexpensive 8GB SD card. Best of all, the cards can be re-used, so the extras can be recorded over and used again at your next event!



# Optional Optical Fiber

Locate to make copies close to customers!



10,000m / 32,808ft  
12Gb/s Ultra HD at 2160p60

Working in large arenas or broadcast studios can force you to place the Blackmagic Duplicator 4K further away from the camera or switcher than regular SDI connections can handle. For events that take place in conference halls or music venues, you may want to put the duplicator close to the merchandising stands so you can hand off cards quickly for sale. Using 12G

over optical fiber solves the distance problems associated with remote set up. Optical fiber lets you place the duplicator up to 6 miles away from your camera or switcher without any loss of quality! Each Blackmagic Duplicator 4K includes an optical fiber socket allowing you to plug in an optical fiber SFP module to upgrade it whenever your production demands!



## Multiple Recordings

Easily merge multiple shots into a single file!

The Blackmagic Duplicator 4K includes a revolutionary new append record button that lets you seamlessly combine recordings from different parts of an event into a single file. For example, if you are recording events that have natural breaks, like weddings with a ceremony and reception in different locations, the Blackmagic Duplicator 4K can automatically append the recordings all into a single file. This makes it easier for guests to watch because they only have to play back a single movie!



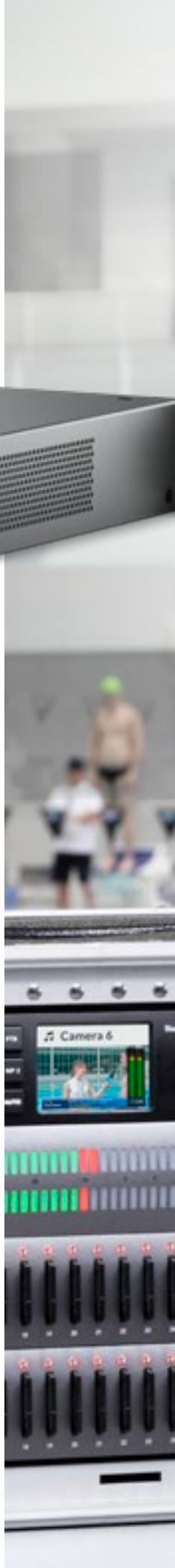
## Work Solo

Automatically trigger recording from your camera!

Working with multiple cameras and a live production switcher is very fast and creative, however many events only require a single camera and operator. If you're working alone, you can still produce multiple copies and sell content faster than ever before! Simply plug the SDI output from your camera into the duplicator, start shooting and the Blackmagic Duplicator 4K will automatically start encoding and making copies. The Blackmagic Duplicator 4K recognizes the SDI start/stop commands from the camera so it automatically starts and stops recording whenever you start and stop the camera!



Shown with Blackmagic Studio Camera.



# Multi Rate Connections

Professional broadcast connections for SD, HD and Ultra HD!

The Blackmagic Duplicator 4K features an advanced, multi rate 12G-SDI connection that automatically switches speed so you can record all SD, HD and Ultra HD formats up to 2160p60. There's also an SDI loop through for connecting to additional duplicators so you can record on to more cards. Easily control multiple units

simultaneously by looping RS-422 deck control so when you start or stop recording on one, the others follow. You also get USB and ethernet ports, along with an optical fiber socket for adding optional fiber when you're in a large venue set up far away from the camera or switcher!



# Technical Specifications

	<b>Blackmagic Duplicator 4K</b>
SDI Video Inputs	1
SDI Video Outputs	1 x loop out.
SDI Rates	270Mb, 1.5G, 3G, 6G, 12G.
Optical SDI	Supports optional SMPTE optical module.
Media	25 x UHS-I for SD, HD and Ultra HD recording.
Media Type	Class 10 minimum. SDXC UHS-I and SDHC UHS-I SD cards. Also supports UHS-II SD cards.
Record Codec	8-bit H.264 or 10-bit H.265 at 4:2:0 with AAC audio.
Media Format	Can format cards to ExFAT file system.
SD Video Standards	525i59.94 NTSC, 625i50 PAL.
HD Video Standards	720p50, 720p59.94, 720p60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080i50, 1080i59.94 and 1080i60
Ultra HD Video Standards	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94 and 2160p60
Built in Control Panel	6 buttons for transport and menu control. Includes record, append record, stop, menu, remote and control panel lock buttons. 2.2 inch color display.
External Control	RS-422 deck control, SDI start/stop, timecode run. Includes Blackmagic HyperDeck SDK and Ethernet HyperDeck Control Protocol.
Weight	2 kg
Length	482 mm
Height	44 mm
Depth	198.5 mm
Power Supply	1 x Internal 110-240V AC.

Learn more at [www.blackmagicdesign.com/uk](http://www.blackmagicdesign.com/uk)

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