

Blackmagic Design Cinema Camera 6K

ProdCode: BMDCINECAM60KL

Handheld 6K digital film camera

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Features

- Handheld 6K digital film camera
- 6048 x 4032 full frame high resolution HDR sensor
- Dual native ISO
- L-Mount
- CFexpress recording and direct recording to USB-C disks
- Features an OLPF for better detail handling
- Records stunning 12-bit Blackmagic RAW for cinematic images as well as real time H.264 proxies

Introducing a new generation in cinematography. The new Blackmagic Cinema Camera 6K is an extremely high end digital film camera that produces precise skin tones and rich organic colours. The camera features a massive full frame 24 x 36mm 6K sensor with wide dynamic range, a very flexible L-Mount for lenses and a built in optical low pass filter that's custom designed to match the sensor. You also get fast CFexpress media and the camera can even use Pocket Cinema Camera accessories. When you are doing cloud and mobile work, the camera records both deep bit depth Blackmagic RAW and H.264 proxies at the same time. No other camera includes this

level of technology, image quality and portability.

Get the "Hollywood Look" with Digital Film.

Blackmagic Cinema Camera 6K has the professional features you need for feature film, television programming and documentaries, however now this same quality can be used to create cinematic content for social media, YouTube videos and more. You get the same features found on high end digital film cameras, allowing capture of deeper colours, higher image detail and a wider dynamic range between the brightest highlights and deepest shadows. It's the reason why feature films look so amazing and now you can get the same high end production values for any kind of work. Imagine shooting with large format digital film on low budget independent films, TV commercials or even corporate video.

Large Format Cinematic Digital Film Sensor.

Blackmagic Cinema Camera 6K features a massive full frame sensor with a native resolution of 6048 x 4032. That's almost three times larger than a Super 35 sensor and allows you to shoot with a shallow depth of field or to use anamorphic lenses uncropped for a true cinematic look. Whether you're shooting in bright sunlight or in almost no light at all, the 13 stops of dynamic range with dual native ISO up to 25,600 provide stunning low noise images in all lighting conditions. Plus you can shoot up to 36 fps at full sensor resolution or 120 fps windowed. This amazing sensor combined with Blackmagic colour science means you get the same imaging technology as expensive digital cinema cameras.

Full Frame Flexibility

The large full frame sensor in Blackmagic Cinema Camera 6K lets you work in a variety of film formats and aspect ratios without sacrificing quality. Using the full area of the sensor gives you a unique open gate 3:2 image which also lets you reframe your shots in post production. The large sensor also lets you work in true 6:5 anamorphic without cropping, making widescreen cinematic images more detailed and in higher resolution than previously possible. You can even use the classic Super 35 sized window on the sensor to create an instant 'close up' version of your shot that fits seamlessly with open gate footage. All this lets you create distinctive cinematic content in the highest quality.

Next Generation L-Mount.

Blackmagic Cinema Camera 6K features an L-Mount, an advanced lens mount designed to accommodate full frame sensors while ensuring compatibility with new and vintage lenses. With a large diameter of 51.6mm, L-Mount works with the latest full

frame lenses from manufacturers such as Leica, Panasonic and Sigma. Plus, a very short flange distance of only 20mm means you can easily add adapters for a variety of lens mounts without impacting image quality. Imagine using modern high speed lenses for sharp, precise images on one shoot and then shooting a period drama with vintage photographic lenses. With L-Mount, you get a single mount that works with virtually any lens for unlimited creative choice.

Shoot Incredible High Dynamic Range (HDR) Images

The distance between the lightest and the darkest parts of an image is called dynamic range and is measured in stops. Blackmagic Cinema Camera 6K has an incredible 13 stops of dynamic range which means it preserves more detail in the lightest and darkest areas of an image than simple video cameras can. This allows you to set exposure for an indoor scene such as a cafe and still retain the details of bright outdoor light coming through a window. You also get more colours than the standard DCI-P3 colourspace used for feature films. Plus DaVinci Resolve Studio is included with the camera, so you get total creative freedom with full exposure adjustment and recovery controls when colour grading.

Dual Gain ISO for Exceptional Low Light Performance

In digital film ISO is a measurement of the image sensor's sensitivity to light. This means the higher the ISO number the more sensitivity to light so it's possible to shoot using natural light even at night. The Blackmagic Cinema Camera 6K features dual native ISO up to 25,600, which means it's optimized to minimize grain or noise in images, while maintaining the full dynamic range of the sensor. The native ISO of 400 is ideal for scenes with on-set lighting. The secondary high base ISO of 3200 is perfect when shooting in dimly lit environments. The gain is set automatically as you adjust the ISO setting, so it's easy to capture great images when you don't have time to set up lights.

Multiple Resolutions and Frame Rates

Blackmagic Cinema Camera 6K can shoot in all standard resolutions and frame rates from HD up to DCI 4K and even 6K. You can even shoot stills at 24.6 megapixels. Blackmagic Cinema Camera 6K will shoot up to 36 fps at 6048 x 4032 3:2 open gate or 60 fps at 6048 x 2520 2.4:1 and 60 fps at 4096 x 2160 4K DCI. For higher frame rates you can window the sensor and shoot up to 100 fps at 2112 x 1184 Super 16. You can even work in true anamorphic 6:5 at much higher resolutions than other cameras using anamorphic lenses in 4.8K 24 fps at 4838 x 4032. You can even shoot 120 fps in 1080HD. With Blackmagic Cinema Camera 6K, you'll always be able to shoot the right resolution for the job.

Lightweight Carbon Fiber Polycarbonate Composite

The elegant design of Blackmagic Cinema Camera 6K packs an incredible number of high end digital film features into a miniaturized, handheld design based on the Pocket Cinema Camera platform. Made from lightweight carbon fiber polycarbonate composite, the camera has a multifunction handgrip with all controls for recording, ISO, WB and shutter angle right at your fingertips. Because it's an advanced digital film camera, the sensor is designed to reduce thermal noise allowing cleaner shadows and higher ISO. Plus the large 5" LCD makes it possible to get perfect focus at 6K resolution. You also get a removable battery door, 4 shock proof microphones, heavy duty lens mount and built in speaker.

Fingertip Shooting Controls

The front and top of the Blackmagic Cinema Camera 6K features record start/stop and still photo buttons along with dedicated controls for iris, ISO, white balance and shutter speed. The main power switch is located on the top next to a row of 3 customizable function buttons.

Back Panel Controls

Conveniently placed below the right thumb rest, you can quickly change shooting speed with the high frame rate button, zoom into the image with the magnifying glass, access setup menus and quickly play back shots for review.

Multifunction Grip with Fingertip Controls

The multifunction handgrip features an ergonomic design that puts important functions such as ISO, WB and shutter buttons at your fingertips. There's even a scroll wheel under your index finger for making quick iris adjustments. Additional controls go beyond those found on a DSLR, which means you don't have to go hunting through menus on a tiny screen to find a command. The Blackmagic Cinema Camera 6K features easy to reach recording and still buttons that are placed exactly where you expect, including user assignable function keys allowing buttons for high frame rate, focus zoom, false colour and more.

Shoot in Vertical Aspect Ratio

Now you can easily create cinematic content for TikTok, YouTube Shorts and more. Simply rotate the Blackmagic Cinema Camera 6K to shoot vertical aspect ratios such as 9:16 and 4:5. The on screen HUD rotates so critical information, such as frame rate, shutter angle and frame guides, are easy to view, even when the camera's turned upside down. You can even switch on frame guides so important details stay in shot

for different aspect ratios. When you import your files into DaVinci Resolve, clips are automatically tagged as vertical so they appear correctly in your timeline. Once you've finished your project, it's easy to upload to your channel with direct exporting to TikTok and YouTube.

Post Production Friendly File Formats

Blackmagic Cinema Camera records in Blackmagic RAW to preserve control of detail, exposure and colour during post production. It also records HD H.264 proxies in real time making it easy to share media around the world in minutes. Blackmagic RAW is highly optimized, multi-threaded, works across multiple CPU cores and is also GPU accelerated to work with Apple Metal, CUDA and OpenCL. This means your images always maintain unprecedented resolution and quality for colour, keying, compositing, reframing, stabilization and tracking in HD, 4K or 6K. Media files work on all operating systems plus you can format media cards and disks in HFS+ for Mac and ExFAT for Windows.

Record to CFexpress Cards or External Disks

The Blackmagic Cinema Camera 6K features a built in CFexpress card recorder, and a USB-C expansion port for recording direct to external flash media disks or an SSD. CFexpress media are more durable and faster than even older media so are perfect for recording full resolution, 12-bit Blackmagic RAW files. Imagine capturing over an hour of full resolution 6K images on a single 256GB CFexpress card. The very high speed of CFexpress cards makes them perfect for mounting on your computer and editing directly from them using the included DaVinci Resolve Studio software.

Blackmagic Raw | The quality of RAW and the speed of video

Blackmagic RAW is a revolutionary new format designed to capture and preserve the quality of the sensor data from your camera. Blackmagic RAW eliminates quality problems so you get stunning images with incredible detail and colour throughout the production pipeline from camera to edit, colour and mastering. It also saves camera settings as metadata so you can set ISO, white balance and exposure in camera or override them later while editing, all without any loss of quality. Blackmagic RAW files are also small and fast to use making them easy to work with. Only Blackmagic RAW gives you the highest quality, smallest files and fastest performance.

Colour Temperature

Setting the colour temperature tells the camera how to interpret white and other colours in an image. Instead of saving images with colour values baked in, Blackmagic RAW makes it possible for you to change the temperature in post production with

Contrast

Adjusting contrast, or the tonal range of an image, can make different parts of the image stand out. While you should always try to get the best shot on set, Blackmagic RAW gives you the flexibility to adjust contrast without any loss of quality while you're editing and colour correcting.

ISO

Changing the ISO adjusts the camera's sensitivity to light. Properly exposed shots require the right combination of ISO, aperture and shutter speed. Depending on the lights and exposure settings, you may need to adjust ISO in post.

Tint

Adjusting tint is another way you can affect the overall colour balance of an image. Unlike saturation or midpoint which can make reds redder or yellows more yellow, adjusting tint actually lets you push the colours in different directions.

Exposure

In order for your images to look good, you need to make sure that it's not too bright (overexposed) or too dark (underexposed). With Blackmagic RAW, the exposure settings can be changed in post so you can save shots that were not properly exposed.

Large 5" LCD Monitor

Blackmagic Cinema Camera 6K features a large, bright 5 inch HDR touchscreen that makes it easy for you to frame shots and accurately focus, whatever the conditions. That means you don't have to carry around an external monitor. On screen overlays show status and record parameters, histogram, focus peaking indicators, levels, frame guides and more. You can quickly apply 3D LUTs for monitoring shots with the desired colour and look. The LCD monitor can even be tilted up to 180 degrees flat and down to 47 degrees so it's easy to monitor your shot from virtually any position. Plus, its HDR display features 1500 nits of brightness, so you can always frame your shot, even in bright sunlight.

Touchscreen for Fast Setup

The large LCD touchscreen displays critical information on the heads up display, or

HUD, as well as access to camera setup menus. The HUD lets you see and adjust settings such as the frame rate, iris, timecode, shutter angle, white balance, ISO, audio levels and more with a single tap. You can show or hide the HUD by simply swiping up or down. Adjust settings such as white balance simply by touching the WB indicator, or change the audio levels by touching the audio meters. Everything is interactive, so you can tap any item and instantly change settings without searching through confusing menus. You can also access settings such as the digital slate, to quickly add metadata to any shot.

Powered by Blackmagic OS

With the advanced Blackmagic OS, you get an intuitive and user friendly camera operating system based on the latest technology. Blackmagic OS is a true modern operating system where all camera features run independently for smoother control, plus the camera powers on virtually instantly. It features the same controls and menus as other Blackmagic Design cameras so you can move between cameras on set easily. The interface uses simple tap and swipe gestures to adjust settings, add metadata and view recording status. You also get full control over advanced camera features such as on screen focus and exposure tools, 3D LUTs, HDR, metadata entry, timecode, Blackmagic RAW settings and more.

Generation 5 Colour Science

Featuring the same generation 5 colour science as the high end URSA Mini Pro 12K, the Blackmagic Cinema Camera 6K delivers an even greater advancement in image quality with stunning, accurate skin tones and faithful colour in every shot. You get a new dynamic 12-bit gamma curve designed to capture more colour data in the highlights and shadows, for better looking images. The colour science also handles some of the complex Blackmagic RAW image processing, so colour and dynamic range data from the sensor is preserved via metadata which you can use in post production. That means you get images that have a natural, film like response to colour adjustments in post with DaVinci Resolve.

Optional Viewfinder for Professional Shooting

Blackmagic Cinema Camera 6K supports an optional viewfinder to make outdoors and handheld shooting accurate and easy. You get an integrated high quality 1280 x 960 colour OLED display with built in proximity sensor, 4 element glass diopter for incredible accuracy with a wide -4 to +4 focus adjustment. A built in digital focus chart ensures you get perfect viewfinder focus setup. You can also view critical status information such as frame guides. The EVF is extremely easy to connect to the Blackmagic Cinema Camera 6K as it simply mounts on top of the camera with a single screw. The viewfinder has a 70 degree swivel range and comes with 4 different types

of eyecups for both left and right eyes.

Professional Connections for Custom Rigs

Though small and portable, the Blackmagic Cinema Camera 6K features a wide range of connections for audio, monitoring, power and more. The camera includes a full size HDMI connector for monitoring with support for HDR and clean 10-bit output. That means you can connect an HDMI display for on set monitoring of images, with or without overlays that show critical information and camera status. There's also mini XLR connections with 48 volt phantom power for attaching professional microphones, a 3.5 mm video camera style microphone input, headphone connection and a professional locking DC power connector. The USB-C connection lets you connect and record direct to your media disk.

4 Built-in Microphones and Professional Audio Inputs

With professional, high fidelity audio recording built in you'll never have to carry around a separate sound recorder again. Blackmagic Cinema Camera features 2 mini XLR inputs with 48 volts of phantom power for connecting professional microphones such as lapel mics and booms. These mini XLR connections allow you to record 2 separate audio tracks using 2 mics, without an external mixer. The four built in mics have an extremely low noise floor and are shock and wind resistant, capturing great sound in any location. There's also a 3.5mm audio input for connecting video camera microphones, along with a built in speaker for playback and a 3.5mm headphone jack.

Load Custom 3D LUTs to Recreate Film Looks

Digital film cameras shoot logarithmic colourspace to preserve the dynamic range, which is great for later post production, however when these files are viewed on a monitor they can look flat and washed out. 3D LUTs solve this problem because they allow you to apply a "look" to the monitor so you get an idea of how the finished images will look when editing. LUTs can be applied temporarily for monitoring only, or they can be recorded into the Blackmagic RAW files for use in post production. The Blackmagic Cinema Camera 6K works with industry standard 17 and 33 point 3D LUT files, or you can work with the built in LUTs such as Extended Video, Film to Video, Film to Rec.2020 and more.

USB-C for External Disks and Ethernet Control

The Blackmagic Cinema Camera 6K features an innovative and high speed USB-C Expansion Port that operates at up to 5 Gb/s. USB-C is available on most new computers and even provides power. That means you can connect external accessories such as flash drives and high capacity SSDs for significantly longer

recording times. Best of all, when shooting is complete you can simply move the external disk to your computer and start editing and colour correction from the same disk straight away, eliminating file copying. You can also add a USB-C to Ethernet adapter to control your camera over a network via secure and easy to use REST APIs. You can even copy files off the camera via the network.

Get Multi Camera Shoots in Perfect Sync

Professional cameras include professional features and you also get a timecode input, allowing shooting with more than one camera while keeping perfect sync. Simply plug in an external timecode generator such as Tentacle Sync into the 3.5 mm audio jack and the camera will automatically detect timecode and lock the internal generator. Now each camera can start and stop recording and all the shots from all cameras will have the same matched timecode. Imagine shooting a music festival with multiple roving cameras. Best of all, DaVinci Resolve will automatically find and sync the shots from all cameras so you don't need to waste time sorting through thousands of shots.

Shoot Still Frames up to 24.6 Megapixels

In addition to shooting video, the Blackmagic Cinema Camera 6K can also capture high resolution stills. Simply press the dedicated stills button to record 24.6 megapixel images. Still images are saved as Blackmagic RAW, so you get a very high image quality, which is perfect for making high resolution professional prints or for later editing in DaVinci Resolve. Capturing still images is great for keeping track of continuity between shots or for sharing images to get approval from clients that are not on set.

Localized in 13 Popular Languages

The Blackmagic Cinema Camera is designed to be used worldwide and supports 13 different languages. When setting up your camera, you can choose to work in English, German, French, Spanish, Portuguese, Italian, Polish, Russian, Ukrainian, Turkish, Chinese, Japanese or Korean. It's easy to switch to another language so you can share your camera with other crew when traveling to locations worldwide. When you switch languages, all on screen overlays, setup menus and monitoring information will be displayed in the selected language.

Wireless Bluetooth Camera Remote Control

If you're positioning the camera on the end of a boom, or in another hard to reach location, you can get full control via Bluetooth from up to 30 feet away. You can download the Blackmagic Camera Control app for your iPad or use third party apps such as Bluetooth+ or tRigger on your iOS and Android devices. There's even a free

developer SDK with sample code available from the Blackmagic Design developer website, so you can create your own remote camera control and digital slate solutions. Imagine building an app that can jam sync timecode and trigger all cameras to record at the same time. The possibilities are endless.

Power from Batteries, 12V DC and Recharge via USB-C

Blackmagic Cinema Camera 6K uses high capacity NP-F570 batteries. These popular batteries come in a variety of capacities and are used around the world. A locking DC power connector is used so you won't have to worry about losing power during a shoot. Plus the included AC plug pack can power the camera or charge the battery when the camera is not in use. You also get a set of international socket adapters for worldwide use. Even the USB-C expansion port can trickle charge the battery, so you can use portable battery packs, mobile phone chargers or laptops. The optional battery grip lets you add extra batteries to dramatically extend the power of the camera so you can keep shooting all day.

Includes DaVinci Resolve Studio

Blackmagic Cinema Camera 6K includes a full version of DaVinci Resolve Studio, which is the same software used in Hollywood for creating high end feature films, episodic television shows, commercials and more. DaVinci Resolve features the new cut page with intelligent editing tools and innovative new features designed to help you quickly find the footage you want, edit it together and output it fast. In addition to the new cut page, you also get DaVinci's legendary professional editing, advanced colour correction, audio post and visual effects tools, all in a single software application. Now you can use the the same high end software that professional editors and colourists use.

In the box:

- Blackmagic Cinema Camera 6K
- Lens turret dust cap
- Camera strap
- 30W power supply with locking connector and international adapters
- NP-F570 battery
- NP-F series battery USB charger
- Welcome booklet
- DaVinci Resolve Studio activation key

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