Blackmagic Pocket Cinema Camera 6K G2

The Blackmagic Pocket Cinema Camera 6K G2 is an advanced technology, handheld 6K digital film camera with 6144 x 3456 Super 35 high resolution HDR sensor, dual native ISO, EF lens mount and direct recording to USB-C disks! This powerful model adds an adjustable touchscreen, and a larger battery for longer run time. You can even add an optional OLED viewfinder!

Camera Features

**Effective Sensor Size**

23.10mm x 12.99mm (Super 35)

**Lens Mount**

Active EF mount.

**Lens Control**

Iris, focus and zoom on supported lenses.

**Dynamic Range**

13 Stops.

**Dual Native ISO**

400 and 3200

**Shooting Resolutions**

- 6144 x 3456 (6K) up to 50 fps
- 6144 x 2560 (6K 2.4:1) up to 60 fps
- 5744 x 3024 (5.7K 17:9) up to 60 fps
- 4096 x 2160 (4K DCI) up to 60 fps
- 3840 x 2160 (Ultra HD) up to 60 fps
- 3728 x 3104 (3.7K 6:5 anamorphic) up to 60 fps
- 2868 x 1512 (2.8K 17:9) up to 120 fps
- 1920 x 1080 (HD) up to 120 fps

**Frame Rates**

Maximum sensor frame rate dependent on resolution and codec selected. Project frame rates of 23.98, 24, 25, 29.97, 30, 50, 59.94 and 60 fps supported. Off-speed frame rates up to 60 fps in 6K 2.4:1, 120 fps in 2.8K 17:9 and 1080HD.

**Built in ND Filters**

None

**Focus**

Auto focus available using compatible lenses.

**Iris Control**

Iris wheel and touchscreen slider for manual iris adjustment on electronically controllable lenses, iris button for instant auto iris settings on compatible lenses.

**Screen Dimensions**

5" 1920 x 1080.

**Screen Type**

LCD capacitive touchscreen.

**Metadata Support**

Automatically populated lens data from electronic EF lenses. Automatic recording of camera settings and slate data such as project, scene number, take and special notes. A 3D LUT can also be embedded in metadata of Blackmagic RAW files.

**Controls**

Touchscreen menus on 5 inch screen. 1 x Power Switch, 1 x Record Button, 1 x Stills Button, 1 x Scroll Wheel with push integrated into handgrip, 1 x ISO Button, 1 x White Balance, 1 x Shutter Button, 3 x software configurable Fn buttons, 1 x IRIS Button, 1 x Focus Button, 1 x High Frame Rate (HFR) Button, 1 x Zoom Button, 1 x Menu Button and 1 x Playback Button.

**Timecode Clock**

Highly accurate timecode clock. Less than 1 frame drift every 8 hours.
Connections

**Total Video Inputs**
None

**Total Video Outputs**
1 x HDMI up to 1080p60

**Analog Audio Inputs**
2 x mini XLR analog switchable between mic with phantom power support and line level (up to +14dBu).
1 x 3.5mm Stereo Input.
All audio inputs can also be used for Timecode input.

**Analog Audio Outputs**
1 x 3.5mm headphone jack.

**Computer Interface**
USB Type-C for external drive recording, PTP camera control and software updates.
Audio

Microphone
Integrated stereo microphone.

Built in Speaker
1 x mono speaker.

Standards

SD Video Standards
None

HD Video Standards
1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60

Ultra HD Video Standards
2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60

4K DCI Standards
4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI, 4Kp29.97 DCI, 4Kp30 DCI, 4Kp50 DCI, 4Kp59.94 DCI, 4Kp60 DCI

Media

Media
1 x CFast card slot, 1 x SD UHS-II card slot, 1 x USB-C 3.1 Gen 1 expansion port for external media for Blackmagic RAW and ProRes Recording. Please refer to either the Manual or the Information Note at www.blackmagicdesign.com/support for compatible media.

Media Format
Can format media to ExFAT (Windows/Mac) or HFS+ (Mac) file systems.

Supported Codecs

Codecs
Blackmagic RAW Constant Bitrate 3:1,
Blackmagic RAW Constant Bitrate 5:1,
Blackmagic RAW Constant Bitrate 8:1,
Blackmagic RAW Constant Bitrate 12:1,
Blackmagic RAW Constant Quality Q0,
Blackmagic RAW Constant Quality Q1,
Blackmagic RAW Constant Quality Q3,
Blackmagic RAW Constant Quality Q5,
ProRes 422 HQ QuickTime,
ProRes 422 QuickTime,
ProRes 422 LT QuickTime,
ProRes 422 Proxy QuickTime.
Control

External Control
Blackmagic Zoom Demand and Blackmagic Focus Demand for controlling your camera and lens from tripod handles.

iPad control, Bluetooth control, USB PTP camera control. External control of some camera settings, focus, iris and zoom with compatible lenses, color corrector, tally and internal record start and stop when used with a compatible ATEM and ATEM Software Control.

Color Corrector

Color Corrector
DaVinci YRGB.

Storage Features

Storage Type
1 x CFast 2.0.
1 x SD UHS-II card.
1 x high speed USB-C expansion port for external media.

Recording Formats
Blackmagic RAW 3:1, 5:1, 8:1, 12:1, Q0, Q1, Q3 and Q5 at 6144 x 3456, 6144 x 2560, 5744 x 3024, 4096 x 2160, 3728 x 3104 and 2868 x 1512 with film, extended video, video dynamic range or custom 3D LUT embedded in metadata.
ProRes at 4096 x 2160, 3840 x 2160 and 1920 x 1080 with film, extended video or video dynamic range or custom 3D LUT.

Storage Rates
Storage rates based on 30 frames per second.
6144 x 3456 (6K)  
Blackmagic RAW 3:1 - 323 MB/s  
Blackmagic RAW 5:1 - 194 MB/s  
Blackmagic RAW 8:1 - 121 MB/s  
Blackmagic RAW 12:1 - 81 MB/s  
Blackmagic RAW Q0 - 242 to 483 MB/s  
Blackmagic RAW Q1 - 162 to 387 MB/s  
Blackmagic RAW Q3 - 108 to 277 MB/s  
Blackmagic RAW Q5 - 65 to 162 MB/s  
6144 x 2560 (6K 2.4:1)  
Blackmagic RAW 3:1 - 240 MB/s  
Blackmagic RAW 5:1 - 144 MB/s  
Blackmagic RAW 8:1 - 90 MB/s  
Blackmagic RAW 12:1 - 60 MB/s  
Blackmagic RAW Q0 - 180 to 359 MB/s  
Blackmagic RAW Q1 - 120 to 287 MB/s  
Blackmagic RAW Q3 - 80 to 162 MB/s
Blackmagic RAW Q5 - 49 to 122 MB/s
5744 x 3024 (5.7K 17:9)  
Blackmagic RAW 3:1 - 264 MB/s  
Blackmagic RAW 5:1 - 159 MB/s  
Blackmagic RAW 8:1 - 90 MB/s  
Blackmagic RAW 12:1 - 60 MB/s  
Blackmagic RAW Q0 - 133 to 265 MB/s  
Blackmagic RAW Q1 - 89 to 212 MB/s  
Blackmagic RAW Q3 - 57 to 114 MB/s  
Blackmagic RAW Q5 - 35 to 67 MB/s  
3840 x 2160 (Ultra HD)  
Blackmagic RAW 3:1 - 110 MB/s  
Blackmagic RAW 5:1 - 66 MB/s  
Blackmagic RAW 8:1 - 40 MB/s  
Blackmagic RAW 12:1 - 25 MB/s  
Blackmagic RAW Q0 - 51 to 101 MB/s  
Blackmagic RAW Q1 - 34 to 81 MB/s  
Blackmagic RAW Q3 - 22 to 45 MB/s  
Blackmagic RAW Q5 - 14 to 34 MB/s  
3728 x 3104 (3.7K 6:5 anamorphic)  
Blackmagic RAW 3:1 - 177 MB/s  
Blackmagic RAW 5:1 - 106 MB/s  
Blackmagic RAW 8:1 - 67 MB/s  
Blackmagic RAW 12:1 - 45 MB/s  
Blackmagic RAW Q0 - 133 to 265 MB/s  
Blackmagic RAW Q1 - 89 to 212 MB/s  
Blackmagic RAW Q3 - 57 to 114 MB/s  
Blackmagic RAW Q5 - 35 to 67 MB/s  
2868 x 1512 (2.8K 17:9)  
Blackmagic RAW 3:1 - 67 MB/s  
Blackmagic RAW 5:1 - 41 MB/s  
Blackmagic RAW 8:1 - 26 MB/s  
Blackmagic RAW 12:1 - 17 MB/s  
Blackmagic RAW Q0 - 51 to 101 MB/s  
Blackmagic RAW Q1 - 34 to 81 MB/s  
Blackmagic RAW Q3 - 22 to 45 MB/s  
Blackmagic RAW Q5 - 14 to 34 MB/s  
1920 x 1080  
Apple ProRes 422 HQ - 27.5 MB/s  
Apple ProRes 422 LT - 18.4 MB/s  
Apple ProRes Proxy - 5.6 MB/s  
Apple ProRes 422 HQ - 117.88 MB/s  
Apple ProRes 422 LT - 78.63 MB/s  
Apple ProRes Proxy - 24.25 MB/s  
Constant Quality storage rates quoted are indicative only. 
Actual storage rates are entirely dependent on image subject matter.
Software

Software Included
Blackmagic OS
DaVinci Resolve Studio for Mac and Windows including activation key
Blackmagic Camera Setup
Blackmagic RAW Player
Blackmagic RAW QuickLook Plugin
Blackmagic RAW SDK
Blackmagic RAW Speed Test

Operating Systems

Mac 11.1 Big Sur,
Mac 12.0 Monterey or later.
Windows 10 and 11.

Power Requirements

Power Supply
1 x External 12V power supply.

External Power Input
1 x 2-pin locking connector.

Battery Type
NP-F570

Power
12V-20V.

Battery Life
Approximately 60 minutes
(recording 6K RAW at 24 fps to CFast 2.0 with screen brightness at 50%)

Accessories

Optional Accessories
Blackmagic Pocket Cinema Camera Pro EVF
Blackmagic Pocket Camera Battery Pro Grip
Physical Specifications

Environmental Specifications

**Operating Temperature**
0°C to 40°C (32°F to 104°F)

**Storage Temperature**
-20°C to 45°C (-4°F to 113°F)

**Relative Humidity**
0% to 90% non-condensing

What's Included

- Blackmagic Pocket Cinema Camera 6K G2
- 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

Warranty

**Product Warranty**
12 Month Limited Manufacturer’s Warranty.