The Blackmagic Pocket Cinema Camera 6K Pro 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 HDR touchscreen, built in ND filters, and a larger battery for longer run time. You can even add an optional OLED viewfinder!

**Blackmagic Pocket Cinema Camera 6K Pro - Technical Specifications**

$2,535

**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 50 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**
  Four position ND filter with clear, 2-stop, 4-stop and 6-stop IR ND filters.

- **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 Brightness**
  1500nits

- **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, 2 x ND filter button, 1 x Focus Button, 1 x IRIS 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.
<table>
<thead>
<tr>
<th>Resolution</th>
<th>Blackmagic RAW 3:1</th>
<th>Blackmagic RAW 5:1</th>
<th>Blackmagic RAW 8:1</th>
<th>Blackmagic RAW 12:1</th>
<th>Blackmagic RAW Q0</th>
<th>Blackmagic RAW Q1</th>
<th>Blackmagic RAW Q3</th>
<th>Blackmagic RAW Q5</th>
</tr>
</thead>
<tbody>
<tr>
<td>6144 x 3456 (6K)</td>
<td>323 MB/s</td>
<td>194 MB/s</td>
<td>121 MB/s</td>
<td>81 MB/s</td>
<td>242 to 483 MB/s</td>
<td>162 to 387 MB/s</td>
<td>108 to 277 MB/s</td>
<td>65 to 162 MB/s</td>
</tr>
<tr>
<td>6144 x 2560 (6K 2.4:1)</td>
<td>240 MB/s</td>
<td>144 MB/s</td>
<td>90 MB/s</td>
<td>60 MB/s</td>
<td>180 to 359 MB/s</td>
<td>120 to 287 MB/s</td>
<td>80 to 205 MB/s</td>
<td>60 to 152 MB/s</td>
</tr>
<tr>
<td>5744 x 3024 (5.7K 17:9)</td>
<td>264 MB/s</td>
<td>159 MB/s</td>
<td>90 MB/s</td>
<td>60 MB/s</td>
<td>133 to 265 MB/s</td>
<td>89 to 212 MB/s</td>
<td>89 to 212 MB/s</td>
<td>65 to 162 MB/s</td>
</tr>
<tr>
<td>4096 x 2160 (Ultra HD)</td>
<td>200 MB/s</td>
<td>120 MB/s</td>
<td>73 MB/s</td>
<td>45 MB/s</td>
<td>102 to 203 MB/s</td>
<td>89 to 212 MB/s</td>
<td>65 to 162 MB/s</td>
<td>65 to 162 MB/s</td>
</tr>
<tr>
<td>3840 x 2160 (Ultra HD)</td>
<td>144 MB/s</td>
<td>82 MB/s</td>
<td>51 MB/s</td>
<td>35 MB/s</td>
<td>89 to 212 MB/s</td>
<td>89 to 212 MB/s</td>
<td>65 to 162 MB/s</td>
<td>65 to 162 MB/s</td>
</tr>
<tr>
<td>3728 x 3104 (3.7K 6:5 anamorphic)</td>
<td>100 MB/s</td>
<td>60 MB/s</td>
<td>38 MB/s</td>
<td>24 MB/s</td>
<td>65 to 162 MB/s</td>
<td>65 to 162 MB/s</td>
<td>65 to 162 MB/s</td>
<td>65 to 162 MB/s</td>
</tr>
<tr>
<td>2868 x 1512 (2.8K 17:9)</td>
<td>67 MB/s</td>
<td>41 MB/s</td>
<td>26 MB/s</td>
<td>17 MB/s</td>
<td>65 to 162 MB/s</td>
<td>65 to 162 MB/s</td>
<td>65 to 162 MB/s</td>
<td>65 to 162 MB/s</td>
</tr>
<tr>
<td>1920 x 1080</td>
<td>42 MB/s</td>
<td>26 MB/s</td>
<td>17 MB/s</td>
<td>10 MB/s</td>
<td>65 to 162 MB/s</td>
<td>65 to 162 MB/s</td>
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<td>65 to 162 MB/s</td>
</tr>
</tbody>
</table>

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 10.15 Catalina,
- Mac 11.1 Big Sur or later.
- Windows 10 and 11.

Power Requirements

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Battery Type</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x External 12V</td>
<td>NP-F570</td>
<td>12V-20V</td>
</tr>
<tr>
<td>power supply.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**External Power Input**
- 1 x 2-pin locking connector.

**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

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>Storage Temperature</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° to 40°C (32° to 104°F)</td>
<td>-20° to 45°C (-4° to 113°F)</td>
<td>0% to 90% non-condensing</td>
</tr>
</tbody>
</table>

What’s Included

- Blackmagic Pocket Cinema Camera 6K Pro
- 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.