The Blackmagic Pocket Cinema Camera 6K features a Super 35 size sensor, 13 stops of dynamic range and dual native ISO up to 25,600 for HDR images and incredible low light performance. External controls give quick access to essential functions, while the large 5 inch touchscreen makes it easy to frame shots, focus accurately and change camera settings. Features include built in SD/UHS-II or CFast 2.0 recorders for Blackmagic RAW or ProRes recording as well as a USB-C expansion port for recording externally to disks, plus EF lens mount, built-in microphones, XLR input, full sized HDMI, 3D LUT support, Bluetooth and more.

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 3020 (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.

**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
- 1 x ISO
- 1 x White Balance
- 1 x Shutter Button
- 3 x software configurable Fn buttons
- 1 x High Frame Rate (HFR) Button
- 1 x Zoom Button
- 1 x Menu Button
- 1 x Play Button
- 1 x Focus Button
- 1 x IRIS Button.
Connections

**Total Video Inputs**
None.

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

**Analog Audio Inputs**
1 x mini XLR analog switchable between mic with phantom power support and line level (up to +14dBu).
1 x 3.5mm Stereo Input. 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**

**Ultra HD Video Standards**

**4K DCI Standards**
4KDCIp23.98, 4KDCIp24, 4KDCIp25, 4KDCIp29.97, 4KDCIp30, 4KDCIp50, 4KDCIp59.94, 4KDCIp60.

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 Q5, ProRes 422 HQ QuickTime, ProRes 422 QuickTime, ProRes 422 LT QuickTime, ProRes 422 Proxy QuickTime.
Control

External Control
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.
### Storage Rates

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Blackmagic RAW</th>
<th>Apple ProRes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6144 x 3456 (6K)</td>
<td>3:1 - 323 MB/s</td>
<td>422 HQ - 117.88 MB/s</td>
</tr>
<tr>
<td>Blackmagic RAW 5:1</td>
<td>194 MB/s</td>
<td>422 - 78.63 MB/s</td>
</tr>
<tr>
<td>Blackmagic RAW 8:1</td>
<td>121 MB/s</td>
<td>422 LT - 54.63 MB/s</td>
</tr>
<tr>
<td>Blackmagic RAW 12:1</td>
<td>81 MB/s</td>
<td>Proxy - 24.25 MB/s</td>
</tr>
<tr>
<td>Blackmagic RAW Q0</td>
<td>194 to 483 MB/s</td>
<td></td>
</tr>
<tr>
<td>Blackmagic RAW Q5</td>
<td>49 to 139 MB/s</td>
<td></td>
</tr>
</tbody>
</table>

** 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 - 144 to 359 MB/s
Blackmagic RAW Q5 - 37 to 103 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 - 100 MB/s
Blackmagic RAW 12:1 - 67 MB/s
Blackmagic RAW Q0 - 159 to 395 MB/s
Blackmagic RAW Q5 - 40 to 114 MB/s

** 4096 x 2160 (4K DCI)
Apple ProRes 422 HQ - 117.88 MB/s
Apple ProRes 422 - 78.63 MB/s
Apple ProRes 422 LT - 54.63 MB/s
Apple ProRes Proxy - 24.25 MB/s
3840 x 2160 (Ultra HD)
Apple ProRes 422 HQ - 110 MB/s
Apple ProRes 422 - 73.6 MB/s
Apple ProRes 422 LT - 51 MB/s
Apple ProRes Proxy - 22.4 MB/s
3728 x 3020 (3.7K 6:5 anamorphic)
Blackmagic RAW 3:1 - 176 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 - 106 to 265 MB/s
Blackmagic RAW Q5 - 27 to 76 MB/s

** 2868 x 1512 (2.8K 17:9)
Storage rates based on 30 frames per second.

* Constant Quality setting Q0 storage rates quoted are indicative only, based on a 2:1 - 5:1 compression range.

** Constant Quality setting Q5 storage rates quoted are indicative only, based on a 7:1 - 20:1 compression range. Actual storage rates are entirely dependent on image subject matter.
Software

**Software Included**
Blackmagic OS

Operating Systems

Mac 10.14 Mojave, Mac 10.15 Catalina or later.

Windows 10.

Power Requirements

**Power Supply**
1 x External 12V power supply.

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

**Battery Type**
Canon LP-E6.

**Battery Life**
Approximately 45 minutes (recording 6K RAW at 24 fps to CFast 2.0 with screen brightness at 50%)

**Power**
12V-20V.

Accessories

**Optional Accessories**
Blackmagic Pocket Camera Battery 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
- Lens turret dust cap
- Camera strap
- 30W power supply with locking connector and international adapters
- LP-E6 battery
- Welcome booklet
- DaVinci Resolve Studio activation key

Warranty

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

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