Blackmagic Production Camera 4K
Technical Specifications

Description

The Blackmagic Production Camera 4K is a complete self contained solution for shooting extremely high resolution Ultra HD 4K content! You get a large Super 35 size sensor with professional global shutter combined with precision EF mount optics, visually lossless compressed CinemaDNG RAW and Apple ProRes 422 (HQ)™ file recording and 12 stops of dynamic range, as well as a 6G-SDI output! Monitor in high resolution on the built in touchscreen, plus change menus and enter metadata. Includes sun shield, power supply, carry strap, UltraScope waveform monitoring software and a full version of DaVinci Resolve software for Mac OS X and Windows.

Camera Features

Effective Sensor Size
21.12mm x 11.88mm (Super 35).

Effective Resolution
3840 x 2160

Shooting Resolutions
3840 x 2160, 1920x1080.

Frame Rates
3840 x 2160p23.98,
3840 x 2160p24,
3840 x 2160p25,

Dynamic Range
12 stops.

Focus
Focus button turns on peaking.

Iris Control
Iris button automatically adjusts the lens iris settings so no pixel is clipped in film mode. Scene average auto exposure in video mode.

Lens Mount

Controls
On screen touch menus and physical buttons for recording and transport control.

Microphone
Integrated mono microphone.

Speaker
Integrated mono speaker.

Mounting Options
3 x 1/4"-20 UNC thread mounting

3840 x 2160p29.97,
3840 x 2160p30,
1920 x 1080p23.98,
1920 x 1080p24,
1920 x 1080p25,
1920 x 1080p29.97,
1920 x 1080p30,
1920 x 1080i50,
1920 x 1080i59.94.

EF and ZE mount compatible with electronic iris control.

Screen Dimensions
5" and 800 x 480 resolution.

Screen Type
Integrated LCD capacitive touchscreen.

Metadata Support
Automatic camera data and user data such as shot number, filenames and keywords.

points on top of camera. 1 x 1/4"–20 UNC thread tripod mount with locator pin.

Storage Features

Storage Type
Removable 2.5" SSD.

Storage Format
Mac OS Extended or exFAT format. SSDs can be formatted on any Mac or use Mediafour MacDrive (not included) on a Windows PC.

Storage Rates
880 Mbps using Apple ProRes 422 (HQ).

Compressed Recording Formats
Visually lossless compressed CinemaDNG RAW with film dynamic range at 3840 x 2160. Apple ProRes 422 (HQ) at 3840 x 2160 and 1920 x 1080 with either film or video dynamic range.

Connections

SDI Video Output
1 x 6G-SDI 10-bit 4:2:2 with choice of Film or Video Dynamic Range.

Analog Audio Input
2 x 1/4" jacks for professional balanced analog audio, switchable between mic and line levels.

Analog Audio Output
1 x 3.5mm stereo headphone output.

SDI Audio Output
2 channels in 6G-SDI 48 kHz and 24 bit.

Remote Control
1 x 2.5mm LANC for Rec Start/Stop, Iris Control and Focus.

Computer Interface
Thunderbolt port for capture of HD video and audio. USB 2.0 mini B port for software updates and configuration.
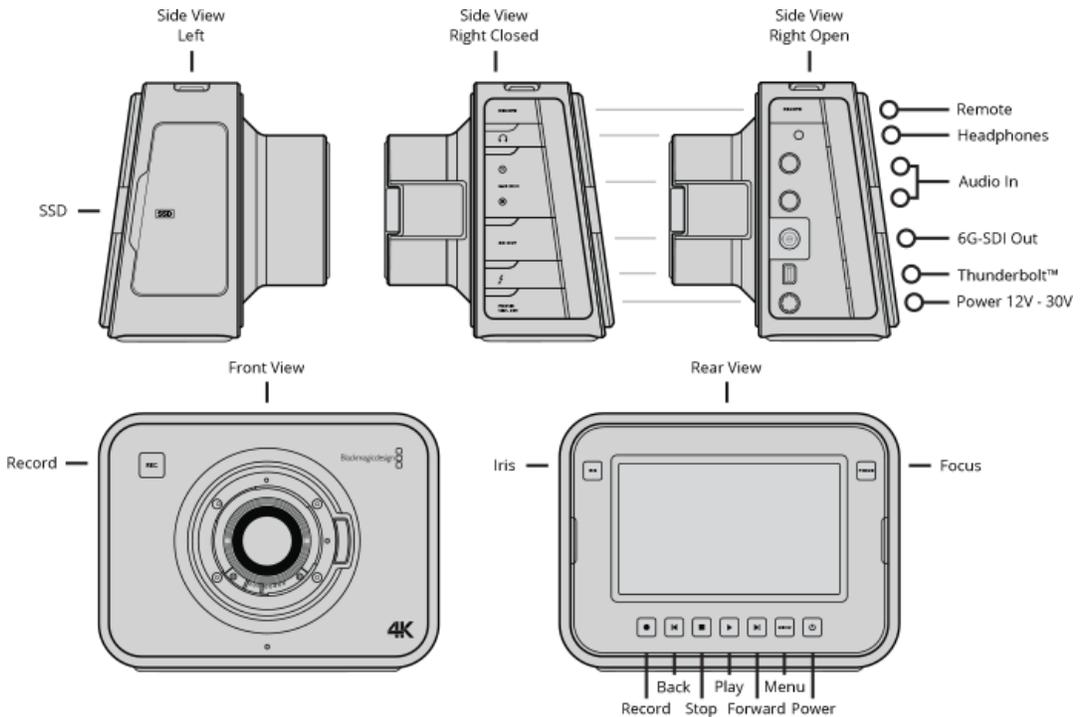
Standards

SDI Compliance

SDI Audio Sampling

SMPTE 292M	48 kHz and 24-bit

Software

Software Included
DaVinci Resolve grading software including Resolve USB dongle for Mac OS X and Windows. Blackmagic Media Express software. DiskSpeed Test.

Software Applications
Final Cut Pro, Adobe® Premiere Pro® CC, After Effects® CC, Nuke, Photoshop® CC, Pro Tools, DaVinci Resolve, UltraScope, Media Express, Disk Speed Test.

Operating Systems

Mac OS X 10.8 Mountain Lion or later.

Windows 7 or later.

Power Requirements

External Power
11V–30V DC port for external battery power or use included.

Power
Integrated Lithium Ion Polymer rechargeable battery. 11V–30V DC port for external battery power or use included 12V AC adapter.

Battery Life
Approximately 90 minutes.

Battery Charge Time
Approximately 2 hours when not in use.

Accessories

Optional Accessories
Blackmagic Cinema Camera Handles.

Physical Specifications

166 mm · 113 mm · 126 mm · 1.7 kg

Environmental Specifications

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

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

Relative Humidity
0% to 90% non-condensing

What's Included

Blackmagic Production Camera 4K
Sun Shield
Camera Strap
Turret Dust Cap
12V AC Adapter

Warranty

Product Warranty
12 Month Limited Manufacturer's Warranty.

Where to Find Details
Refer to product Installation and Operation Manual, available on line www.blackmagicdesign.com/support.