



Blackmagic Production Camera 4K PL

Technical Specifications

Description

The world's smallest super wide dynamic range PL mount 4K digital film camera features cinematic Super 35 sized sensor with global shutter. Includes 12 stops of dynamic range, built in 4K RAW and ProRes SSD recorder, touch screen with metadata entry, strong machined aluminum chassis and more. Includes DaVinci Resolve software for a complete solution for shooting, editing, color correcting and finishing 4K digital film.

Camera Features

Effective Sensor Size

21.12mm x 11.88mm (Super 35).

Effective Sensor Resolution

4000 x 2160.

RAW Resolution

12-bit RAW files recorded at 4000 x 2160.

Shooting Resolutions

4K RAW at 4000 x 2160. ProRes at 3840 x 2160 and 1920 x 1080.

Frame Rates

4K RAW at 4000 x 2160p 23.98, 24, 25, 29.97, 30.

Ultra HD 2160p 23.98, 24, 25, 29.97, 30.

HD 1080p 23.98, 24, 25, 29.97, 30.

Dynamic Range

12 stops.

Focus

Focus button turns on peaking.

Iris Control

Compatible with manually operated PL mount lens.

Lens Mount

PL mount for manually operated lens with manual 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.

Controls

Onscreen 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 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 Windows computer.

Storage Rates

8MB per frame using 4K CinemaDNG RAW fits about 20 minutes of video on a 256 GB solid state disk. Compressed Ultra HD formats fit more than 5 times the amount of RAW video.

Recording Formats

Lossless CinemaDNG RAW with film dynamic range at 4000x2160. Apple ProRes 422 (HQ), ProRes 422, ProRes 422 (LT) and ProRes 422 (Proxy) at 3840x2160 and 1920x1080 10-bit YUV 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

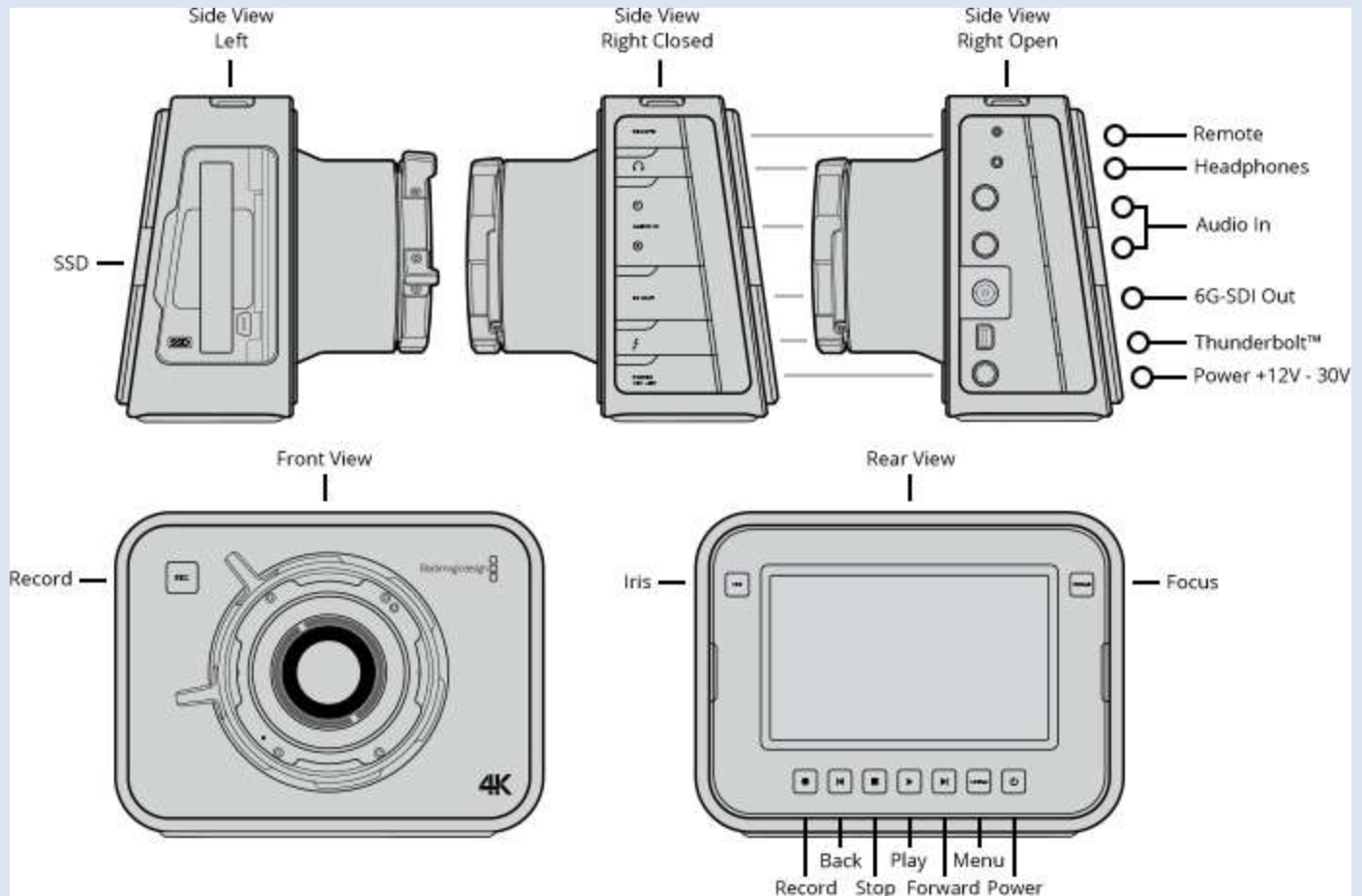
2 channels 48 kHz and 24-bit.

Remote Control

1 x 2.5mm LANC for Record Start and Stop.

Computer Interface

Thunderbolt port for waveform monitoring of 1080 HD video, and capture of Ultra HD and 1080 HD video. USB 2.0 Mini-B port for software updates and configuration.



Standards

SDI Compliance

SMPTE 292M

SDI Audio Sampling

48 kHz and 24-bit

Software

Software Included

DaVinci Resolve grading software including Resolve USB dongle for Mac OS X and Windows. Blackmagic UltraScope. Blackmagic Media Express software. Disk Speed Test.

Software Applications

DaVinci Resolve, Fusion, Final Cut Pro X, Premiere Pro CC, After Effects CC, Photoshop CC, Pro Tools, UltraScope, Media Express, Disk Speed Test.

Operating Systems

Mac OS X 10.9 Mavericks, Mac OS X 10.10 Yosemite or later.

Windows 7 or Windows 8.

Power Requirements

Power

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

External Power

12V-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



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 PL

Sun Shield

Camera Strap

Turret Dust Cap

12V AC Adapter

Warranty

Product Warranty

12 Month Limited Manufacturer's Warranty.

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