



# 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,  
 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.

#### 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

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.

#### Compressed Recording Formats

Apple ProRes 422 (HQ) at 3840 x 2160 and 1920 x 1080, visually lossless compressed CinemaDNG RAW at 3840 x 2160 and 1920 x 1080 with either Film or Video Dynamic Range.

#### 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 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).

### Connections

#### SDI Video Output

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

#### Analog Audio Output

1 x 3.5mm stereo headphone output.

#### SDI Audio Output

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

#### Computer Interface

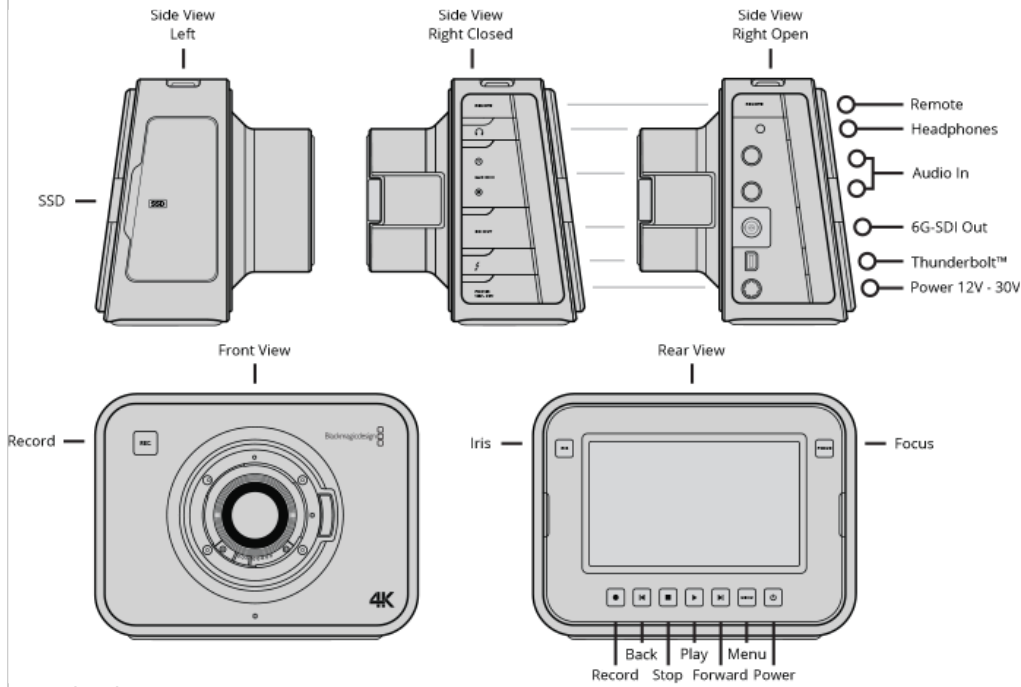
Thunderbolt port for capture of HD video and audio. USB 2.0 mini B port for software updates and configuration.

### Analog Audio Input

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

### Remote Control

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



### Standards

#### SDI Compliance

SMPTE 292M

#### Software Included

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

#### SDI Audio Sampling

48 kHz and 24-bit

#### Software Applications

Final Cut Pro, Adobe Premier Pro, After Effects, Nuke, Photoshop, Pro Tools, DaVinci Resolve, UltraScope, Media Express, Disk Speed Test.

### Software

### 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](http://www.blackmagicdesign.com/support).