

## Blackmagic URSA Mini Pro 4.6K G2



URSA Mini Pro 4.6K G2 is a next generation digital film camera with updated electronics and a high performance 4.6K HDR image sensor for shooting at up to 300 frames per second. You get a Super 35mm 4.6K sensor with 15 stops of dynamic range, built in optical ND filters, interchangeable EF lens mount that can be swapped for optional PL, B4 or F mounts, Blackmagic RAW and ProRes recording to dual CFast or dual SD cards, and an innovative USB-C expansion port for recording directly to external disks. In addition, URSA Mini Pro 4.6K G2 features a massive set of external broadcast style controls, backlit status display, foldout touchscreen monitor and more!

### Camera Features

#### Effective Sensor Size

25.34mm x 14.25mm (Super35)

#### Lens Mount

EF mount included. Interchangeable with optional PL, B4 and F lens mounts.

#### Lens Control

Electronic control via EF mount pins or 12pin broadcast connector for compatible lenses

#### Dynamic Range

15 Stops.

#### Shooting Resolutions

4608 x 2592, 4608 x 1920 (4.6K 2.40:1), 4096 x 2304 (4K 16:9), 4096 x 2160 (4K DCI), 3840 x 2160 (Ultra HD), 3072 x 2560 (3K Anamorphic), 2048 x 1152 (2K 16:9), 2048 x 1080 (2K DCI), 1920 x 1080

#### 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.

#### High Speed Frame Rates

Blackmagic RAW 8:1  
4.6K Full - Up to 120 fps  
UHD Windowed - Up to 150 fps  
HD Windowed - Up to 300 fps  
ProRes 422 HQ  
4.6K Full - Up to 80 fps  
UHD Windowed - Up to 120 fps  
HD Windowed - Up to 240 fps

#### Built in ND Filters

Four position ND filter wheel with clear, 2-stop, 4-stop and 6-stop ND filters.

#### Focus

Focus button turns on peaking, 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 so no pixel is clipped in film mode. Scene average auto exposure in video mode.

#### Screen Dimensions

4 inch

#### Screen Type

LCD capacitive touchscreen.

#### Metadata Support

Automatically populated lens data from electronic EF, B4 and i/Technology compatible PL lenses. Automatic recording of camera settings and slate data such as project, scene number, take and special notes.

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**Controls**

Touchscreen menus on 4 inch screen.  
Push buttons for other controls.  
2 assignable shortcut keys.

**Timecode Clock**

Highly accurate timecode clock. Less than 1 frame drift every 8 hours.

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**Connections****Total Video Inputs**

1 x SDI

**Total Video Outputs**

1 x SDI, 1 x SDI Monitoring.

**SDI Rates**

1.5G, 3G, 6G, 12G.

**Analog Audio Inputs**

2 x XLR analog switchable between mic, line and AES audio. Phantom power support.

**Analog Audio Outputs**

1 x 3.5mm headphone jack, supports iPhone microphone for talkback.

**Reference Inputs**

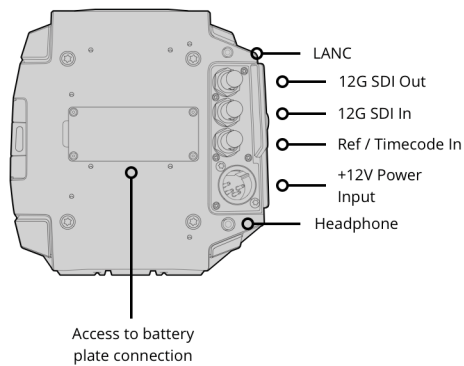
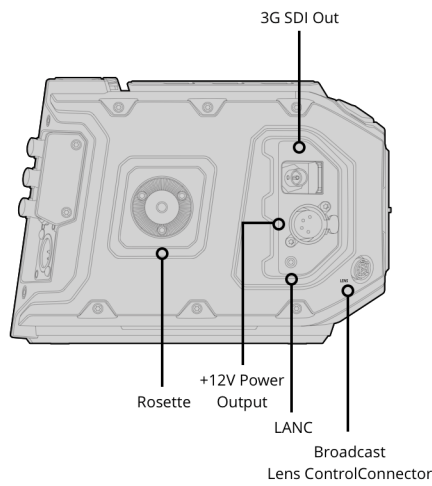
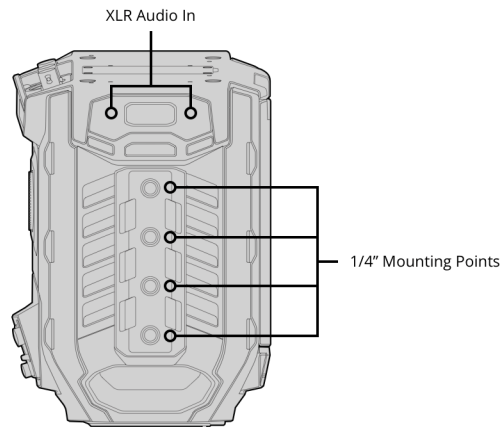
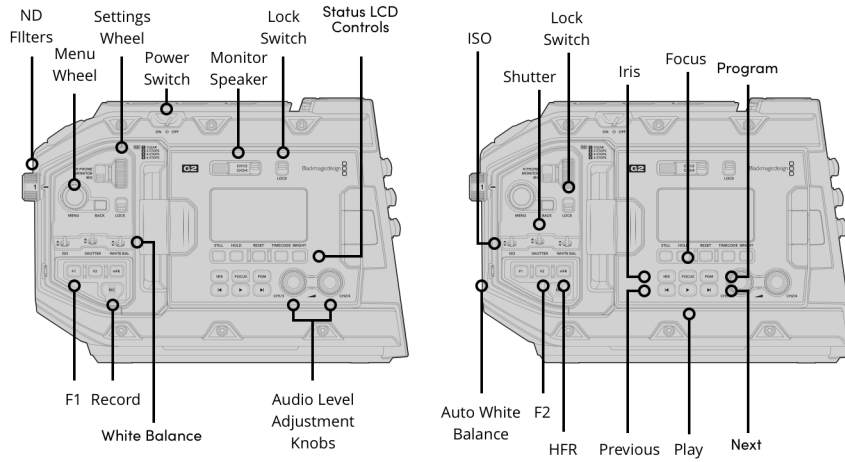
Tri-Sync/Black Burst/Timecode.

**Remote Control**

2 x 2.5mm LANC input for Rec Start/ Stop, plus Iris and Focus control using compatible lenses.

**Computer Interface**

USB Type-C 3.1 Gen 1 for external drive recording and software updates.



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## Audio

### Microphone

Integrated stereo microphone.

### Built in Speaker

1 x mono speaker.

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## Standards

### SD Video Standards

None.

### HD Video Standards

1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30, 1080p50,  
1080p59.94, 1080p60, 1080i50,  
1080i59.94, 1080i60

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30, 2160p50,  
2160p59.94, 2160p60

### SDI Compliance

SMPTE 292M, SMPTE 424 Level B,  
SMPTE 2081-1, SMPTE 2082-1

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### SDI Audio Sampling

48 kHz and 24 bit

## Media

### Media

2 x CFast 2.0 card slots, 2 x SD UHS-II card slots, 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/](http://www.blackmagicdesign.com/) support for compatible media.

### Media Format

Can format media to ExFAT (Windows/Mac) or HFS+ (Mac) file systems.

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## 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,  
Apple ProRes XQ QuickTime, Apple ProRes 444 QuickTime,  
Apple ProRes 422 HQ QuickTime,  
Apple ProRes 422 QuickTime,  
Apple ProRes 422 HQ QuickTime,  
Apple ProRes 422 LT QuickTime and  
Apple ProRes 422 Proxy QuickTime.

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## Control

### **External Control**

Blackmagic SDI Control Protocol, iPad control, Bluetooth control, 2 x 2.5mm LANC for lens and record control.

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## Color Corrector

### **Color Corrector**

DaVinci YRGB.

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## Talkback and Tally

### **Talkback**

SDI Channels 15/16 and iPhone headset.

### **Live Tally Indicator**

Tally on LCD, URSA Viewfinder and URSA Studio Viewfinder.

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## Storage Features

### **Storage Type**

2 x CFast 2.0

2 x SD UHS-II cards

1 x high speed USB-C expansion port for external media.

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## Storage Rates

Storage rates based on 30 frames per second.

4608 x 2592

Blackmagic RAW 3:1 - 183 MB/s

Blackmagic RAW 5:1 - 110 MB/s

Blackmagic RAW 8:1 - 68 MB/s

Blackmagic RAW 12:1 - 46 MB/s

Blackmagic RAW Q0 - 110 to 274 MB/s \*

Blackmagic RAW Q5 - 27 to 78 MB/s \*\*

Apple ProRes XQ - 360 MB/s

Apple ProRes 444 - 238 MB/s

Apple ProRes HQ - 158 MB/s

Apple ProRes 422 - 106 MB/s

Apple ProRes LT - 73.5 MB/s

Apple ProRes Proxy - 32.3 MB/s

3840 x 2160

Blackmagic RAW 3:1 - 127 MB/s

Blackmagic RAW 5:1 - 76 MB/s

Blackmagic RAW 8:1 - 48 MB/s

Blackmagic RAW 12:1 - 32 MB/s

Blackmagic RAW Q0 - 76 to 191 MB/s \*

Blackmagic RAW Q5 - 19 to 55 MB/s \*\*

Apple ProRes XQ - 250 MB/s

Apple ProRes 444 - 165 MB/s

Apple ProRes HQ - 110 MB/s

Apple ProRes 422 - 73.6 MB/s

Apple ProRes LT - 51 MB/s

Apple ProRes Proxy - 22.4 MB/s

1920 x 1080

Blackmagic RAW 3:1 - 33 MB/s

Blackmagic RAW 5:1 - 20 MB/s

Blackmagic RAW 8:1 - 12 MB/s

Blackmagic RAW 12:1 - 8 MB/s

Blackmagic RAW Q0 - 20 to 49 MB/s \*

Blackmagic RAW Q5 - 5 to 14 MB/s \*\*

Apple ProRes XQ - 62.5 MB/s

Apple ProRes 444 - 41.25 MB/s

Apple ProRes HQ - 27.5 MB/s

Apple ProRes 422 - 18.4 MB/s

Apple ProRes LT - 12.75 MB/s

Apple ProRes Proxy - 5.6 MB/s

\* 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.

## Recording Formats

Blackmagic RAW Q0, Q5, 3:1, 5:1, 8:1 and 12:1 at 4608 x 2592, 4608 x 1920, 4096 x 2304, 4096 x 2160, 3840 x 2160, 3072 x 2560, 2048 x 1152, 2048 x 1080 and 1920 x 1080 with film, extended video or video dynamic range.

ProRes at 4608 x 2592, 4608 x 1920, 4096 x 2304, 4096 x 2160, 3840 x 2160, 3072 x 2560, 2048 x 1152, 2048 x 1080 and 1920 x 1080 with film, extended video or video dynamic range.

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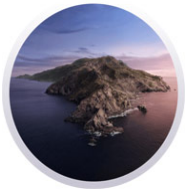
## Software

### 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

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## Operating Systems



Mac 10.14 Mojave,  
Mac 10.15 Catalina or later.



Windows 8.1 and 10.

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## Power Requirements

### Power Supply

1 x External 12V power supply. 12 pin Molex connector for rear battery plate.

### External Power Input

1 x 4 pin XLR port for external power or battery use.  
1 x 12 pin Molex connector on rear battery plate.  
Custom V-mount battery plate with D-tap +12V regulated output from camera.

### Power

Rear camera mount compatible with industry standard V-mount or gold mount battery plates.

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## Accessories

### Optional Accessories

URSA Mini Pro PL, EF, B4 and F Mounts  
URSA Mini Pro Shim Kit  
URSA Mini Shoulder Kit including top handle and extender arm  
URSA Viewfinder  
URSA Studio Viewfinder  
URSA Mini SSD Recorder  
URSA VLock Battery Plate  
URSA Gold Battery Plate  
URSA Mini Mic Mount  
URSA Mini Top Handle  
URSA Handgrip  
Blackmagic Camera Fiber Converter

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## Physical Specifications



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## 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



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## What's Included

Blackmagic URSA Mini Pro 4.6K G2 body  
Turret dust cap  
EF lens mount  
Power supply  
SD card with software and manual  
DaVinci Resolve Studio with activation key

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## Warranty

12 Month Limited Manufacturer's  
Warranty.

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