

## Blackmagic URSA Mini Pro 12K OLPF



URSA Mini Pro 12K OLPF is a revolution in digital film with a 12,288 x 6480 12K Super 35 sensor and 14 stops of dynamic range. The third generation URSA Mini Pro features new color science and shoots 80 megapixels per frame in Blackmagic RAW. You also get built in ND filters, user changeable lens mount and recording to dual CFast or SD cards. URSA Mini Pro 12K even supports recording direct to a flash disk or SSD using its built in SuperSpeed USB-C connection!

**\$6,385**

### Camera Features

#### Effective Sensor Size

27.03mm x 14.25mm (Super35)

#### Lens Mount

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

#### Lens Control

12pin broadcast connector for compatible lenses and electronic control via EF mount pins on optional EF lens mount.

#### Dynamic Range

14 Stops

#### Shooting Resolutions

12,288 x 6480 (12K DCI)  
 11,520 x 6480 (12K 16:9)  
 12,288 x 5112 (12K 2.4:1)  
 7680 x 6408 (12K anamorphic)  
 8192 x 4320 (8K DCI)  
 7680 x 4320 (8K 16:9)  
 8192 x 3408 (8K 2.4:1)  
 5120 x 4272 (8K anamorphic)  
 6144 x 3240 (6K Super16)  
 4096 x 2160 (4K Super16)  
 4096 x 2160 (4K DCI)  
 3840 x 2160 (4K 16:9)  
 4096 x 1704 (4K 2.4:1)  
 2560 x 2136 (4K anamorphic)

#### Frame Rates

Maximum sensor frame rate dependent on resolution selected.  
 Project frame rates of 23.98, 24, 25, 29.97, 30, 50, 59.94 and 60 fps supported.

#### High Speed Frame Rates

12K 17:9 full sensor up to 60 fps  
 12K 2.4:1 up to 75 fps  
 8K DCI full sensor up to 120 fps  
 4K DCI full sensor up to 120 fps  
 8K 2.4:1 and 4K 2.4:1 up to 160 fps  
 6K Super 16 up to 120 fps  
 4K Super 16 up to 240 fps

#### Built in ND Filters

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

#### Focus

Focus button triggers auto focus when using compatible lenses with focus servo. Touch and hold on LCD determines focus region and triggers auto focus.

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**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 i/Technology with compatible PL lenses and electronic EF lenses when using optional EF lens mount. Automatic recording of camera settings and slate data such as project, scene number, take and special notes.

**Controls**

Touchscreen menus on 4 inch screen. Push buttons for other controls. 3 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 12G-SDI

**Total Video Outputs**

1 x 12G-SDI, 1 x 3G-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**

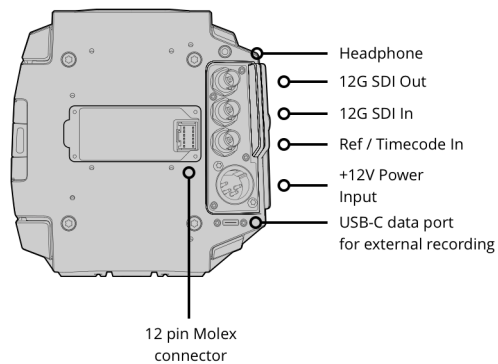
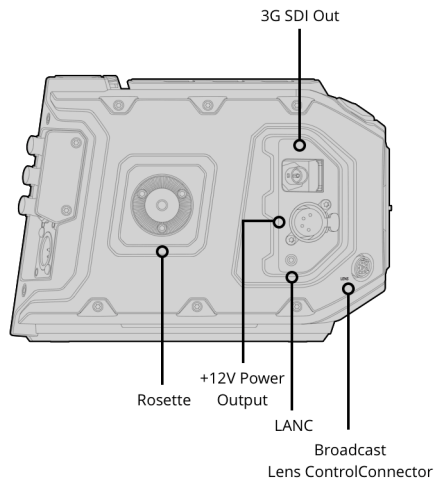
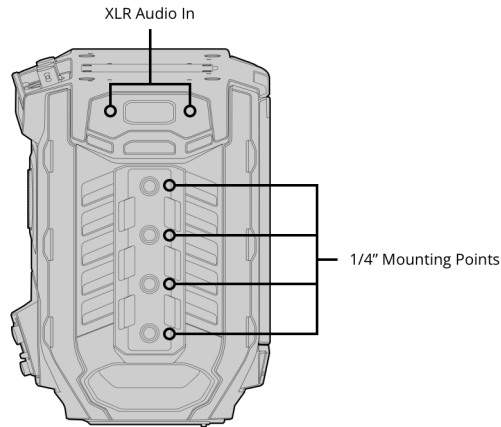
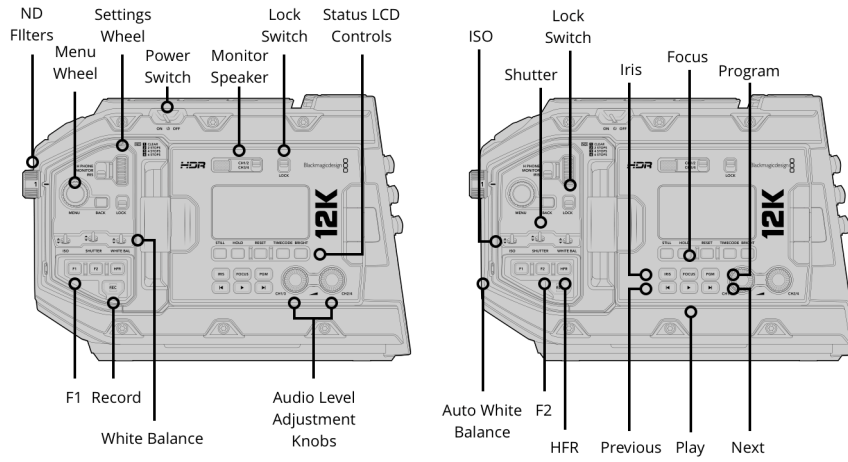
Tri-Sync/Black Burst/Timecode.

**Remote Control**

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

**Computer Interface**

1 x USB Type-C 3.1 Gen 2 with power delivery for external drive recording. 1 x USB Type-C for 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 2  
expansion port with power delivery  
for recording to external media.

### Media Format

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

Please refer to either the Manual or  
the Information Note  
at [www.blackmagicdesign.com/  
support](http://www.blackmagicdesign.com/support) for compatible media.

### Alternative Media

1 x 2.5" drive slot for 7mm and  
9.5mm U.2 NVMe SSD or SATA SSD  
with optional URSA Mini Recorder.

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## Supported Codecs

### Codecs

Blackmagic RAW Constant Bitrate 5:1,  
Blackmagic RAW Constant Bitrate 8:1,  
Blackmagic RAW Constant Bitrate  
12:1,  
Blackmagic RAW Constant Bitrate  
18:1,  
Blackmagic RAW Constant Quality Q0,  
Blackmagic RAW Constant Quality Q1,  
Blackmagic RAW Constant Quality Q3,  
Blackmagic RAW Constant Quality Q5.

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## Control

### **External Control**

Blackmagic SDI Camera Control Protocol, iPad control, Bluetooth control, 1 x 2.5mm LANC for lens and record control.

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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

12K Full Sensor - 12,288 x 6480  
at 24 frames per second.

Blackmagic RAW 5:1 - 578 MB/s  
Blackmagic RAW 8:1 - 361 MB/s  
Blackmagic RAW 12:1 - 241 MB/s  
Blackmagic RAW 18:1 - 160 MB/s  
Blackmagic RAW Q0 - 289 to 1,156 MB/s  
Blackmagic RAW Q1 - 241 to 963 MB/s  
Blackmagic RAW Q3 - 145 to 722 MB/s

Blackmagic RAW Q5 - 97 to 413 MB/s  
8K Full Sensor - 8192 x 4320  
at 24 frames per second.

Blackmagic RAW 5:1 - 257 MB/s  
Blackmagic RAW 8:1 - 161 MB/s  
Blackmagic RAW 12:1 - 107 MB/s  
Blackmagic RAW 18:1 - 71 MB/s  
Blackmagic RAW Q0 - 257 to 642 MB/s  
Blackmagic RAW Q1 - 214 to 428 MB/s  
Blackmagic RAW Q3 - 107 to 321 MB/s

Blackmagic RAW Q5 - 81 to 257 MB/s  
6K Super 16 - 6144 x 3240  
at 24 frames per second.

Blackmagic RAW 5:1 - 146 MB/s  
Blackmagic RAW 8:1 - 91 MB/s  
Blackmagic RAW 12:1 - 61 MB/s  
Blackmagic RAW 18:1 - 40 MB/s  
Blackmagic RAW Q0 - 73 to 291 MB/s  
Blackmagic RAW Q1 - 61 to 242 MB/s  
Blackmagic RAW Q3 - 37 to 182 MB/s  
Blackmagic RAW Q5 - 25 to 104 MB/s

4K Full Sensor - 4096 x 2160  
at 24 frames per second.

Blackmagic RAW 5:1 - 161 MB/s  
Blackmagic RAW 8:1 - 107 MB/s  
Blackmagic RAW 12:1 - 80 MB/s  
Blackmagic RAW 18:1 - 53 MB/s  
Blackmagic RAW Q0 - 161 to 268 MB/s  
Blackmagic RAW Q1 - 107 to 214 MB/s

Blackmagic RAW Q3 - 81 to 179 MB/s  
Blackmagic RAW Q5 - 54 to 161 MB/s

4K Super 16 - 4096 x 2160  
at 240 frames per second.

Actual storage rates are dependent on image subject matter.

Blackmagic RAW 5:1 - 648 MB/s  
Blackmagic RAW 8:1 - 405 MB/s  
Blackmagic RAW 12:1 - 271 MB/s  
Blackmagic RAW 18:1 - 180 MB/s  
Blackmagic RAW Q0 - 648 to 1,618 MB/s  
Blackmagic RAW Q1 - 540 to 1,079 MB/s  
Blackmagic RAW Q3 - 271 to 810 MB/s  
Blackmagic RAW Q5 - 203 to 648 MB/s

## Recording Formats

Blackmagic RAW Q0, Q1, Q3, Q5, 5:1, 8:1, 12:1 and 18:1 at 12,288 x 6480, 11,520 x 6480, 12,288 x 5112, 7680 x 6408, 8192 x 4320, 7680 x 4320, 8192 x 3408, 5120 x 4272, 6144 x 3240, 4096 x 2160, 3840 x 2160, 4096 x 1704 and 2560 x 2136 stored as 12 bit non-linear with film, extended video, video or custom 3D LUT embedded in metadata.

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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  
Blackmagic RAW Speed Test

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## Operating Systems



Mac 10.15 Catalina,  
Mac 11.1 Big Sur or later.



Windows 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 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 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 12K OLPF Body  
Turret dust cap  
PL lens mount  
Power supply  
DaVinci Resolve Studio activation key

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## Warranty

12 Month Limited  
Manufacturer's Warranty.

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