

Blackmagic URSA Mini Pro 12K



URSA Mini Pro 12K 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!

\$9,995

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
 8K DCI full sensor up to 110 fps
 4K DCI full sensor up to 110 fps
 8K 2.4:1 and 4K 2.4:1 up to 140 fps
 6K Super 16 up to 120 fps
 4K Super 16 up to 220 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 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.

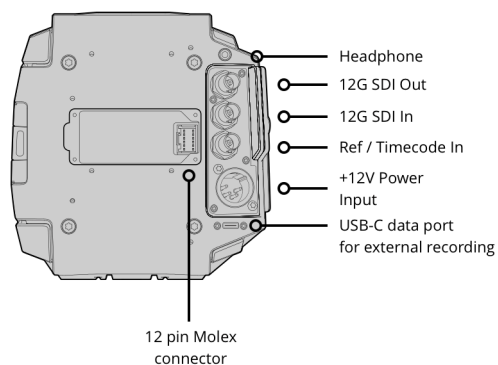
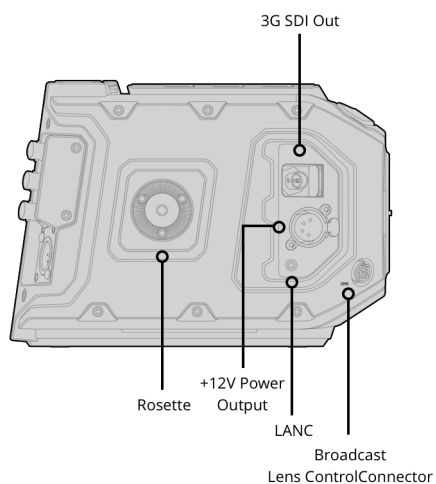
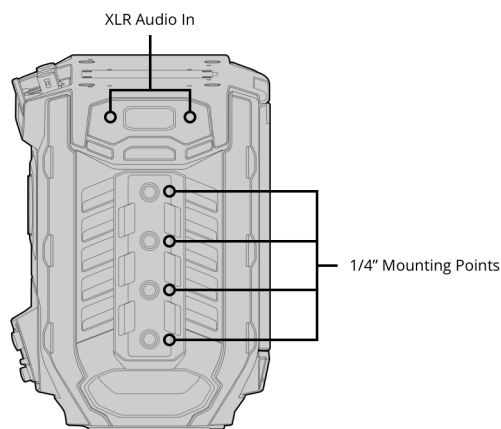
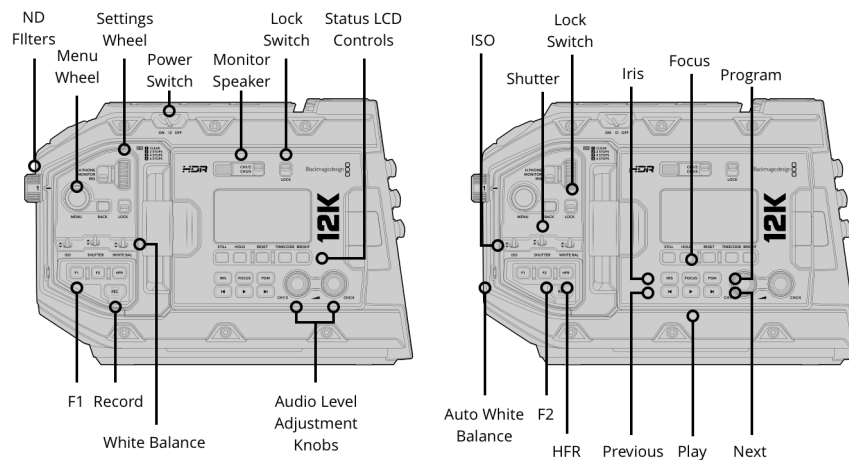
Screen Dimensions

4 inch

Screen Type LCD capacitive touchscreen.	Metadata Support Automatically populated lens data from 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	Analog Audio Inputs 2 x XLR analog switchable between mic, line and AES audio. Phantom power support.	Remote Control 1 x 2.5mm LANC input for Rec Start/ Stop, plus Iris and Focus control using compatible lenses.
Total Video Outputs 1 x 12G-SDI, 1 x 3G-SDI Monitoring.	Analog Audio Outputs 1 x 3.5mm headphone jack, supports iPhone microphone for talkback.	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.
SDI Rates 1.5G, 3G, 6G, 12G.	Reference Inputs Tri-Sync/Black Burst/Timecode.	



Audio

Microphone

Integrated stereo microphone.

Built in Speaker

1 x mono speaker.

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

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.
Please refer to either the Manual or
the Information Note
at www.blackmagicdesign.com/
support for compatible media.

Media Format

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

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.

Control

External Control

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

Talkback and Tally

Talkback

SDI Channels 15/16 and
iPhone headset.

Live Tally Indicator

Tally on LCD, URSA Viewfinder and
URSA Studio Viewfinder.

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.

Storage Rates

Storage rates based on 24 frames per second.

12K - 12,288 x 6480

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 - 241 to 578 MB/s¹

Blackmagic RAW Q1 - 144 to 361 MB/s²

s²

Blackmagic RAW Q3 - 96 to 241 MB/s

3

Blackmagic RAW Q5 - 72 to 180 MB/s

4

8K - 8192 x 4320

Blackmagic RAW 5:1 - 258 MB/s

Blackmagic RAW 8:1 - 161 MB/s

Blackmagic RAW 12:1 - 107 MB/s

Blackmagic RAW 18:1 - 72 MB/s

Blackmagic RAW Q0 - 107 to 258 MB/s¹

s¹

Blackmagic RAW Q1 - 64 to 161 MB/s

2

Blackmagic RAW Q3 - 43 to 107 MB/s

3

Blackmagic RAW Q5 - 32 to 81 MB/s⁴

6K - 6144 x 3240

Blackmagic RAW 5:1 - 145 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 - 61 to 145 MB/s

1

Blackmagic RAW Q1 - 36 to 91 MB/s²

Blackmagic RAW Q3 - 24 to 61 MB/s³

Blackmagic RAW Q5 - 18 to 45 MB/s⁴

4K - 4096 x 2160

Blackmagic RAW 5:1 - 65 MB/s

Blackmagic RAW 8:1 - 41 MB/s

Blackmagic RAW 12:1 - 27 MB/s

Blackmagic RAW 18:1 - 18 MB/s

Blackmagic RAW Q0 - 27 to 65 MB/s¹

Blackmagic RAW Q1 - 16 to 41 MB/s²

Blackmagic RAW Q3 - 11 to 27 MB/s³

Blackmagic RAW Q5 - 8 to 20 MB/s⁴

¹ Constant Quality setting Q0 storage rates quoted are indicative only, based on a 5:1 - 12:1 compression range.

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.

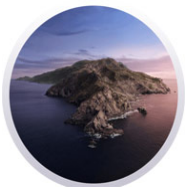
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- ² Constant Quality setting Q1 storage rates quoted are indicative only, based on a 8:1 - 20:1 compression range.
- ³ Constant Quality setting Q3 storage rates quoted are indicative only, based on a 12:1 - 30:1 compression range.
- ⁴ Constant Quality setting Q5 storage rates quoted are indicative only, based on a 16:1 - 40:1 compression range.
- Actual storage rates are entirely dependent on image subject matter.
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Software

Software Included

URSA Mini Operating System
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

Operating Systems



Mac 10.14 Mojave,
Mac 10.15 Catalina or later.



Windows 10.

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.

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

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 URSA Mini Pro 12K Body
Turret dust cap
PL lens mount
Power supply
DaVinci Resolve Studio activation key

Warranty

12 Month Limited
Manufacturer's Warranty.

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