

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!

A\$10,835

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.

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.

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

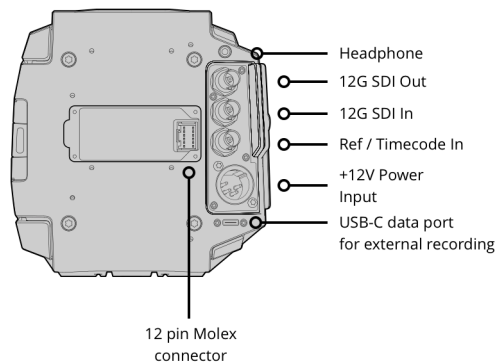
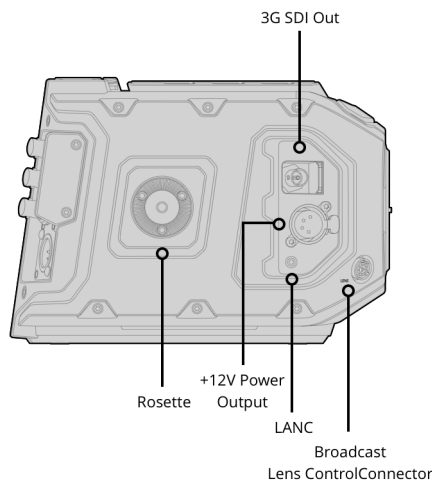
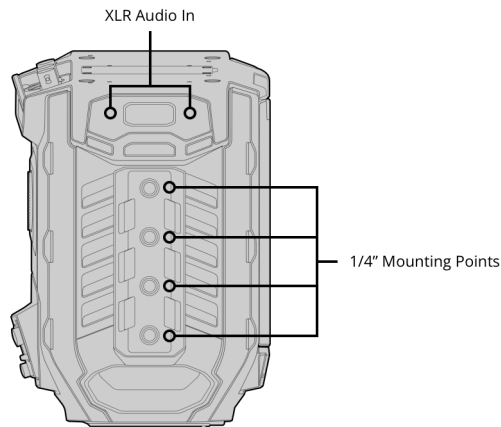
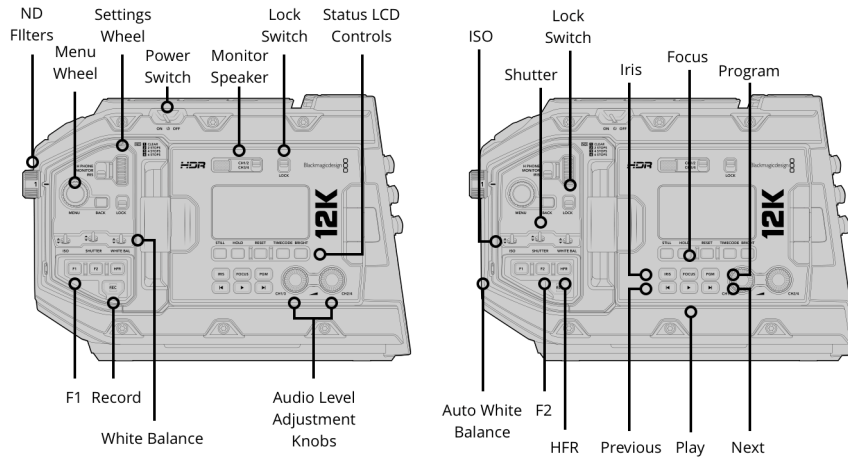
Tri-Sync/Black Burst/Timecode.

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.



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.

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.

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

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.

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

Operating Systems



Mac 10.15 Catalina,
Mac 11.1 Big Sur 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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