

# Blackmagic URSA Cine 12K LF



Blackmagic URSA Cine 12K LF is a revolution in digital film with a new large format RGBW 36 x 24mm sensor with larger photo-sites for 16 stops of dynamic range. This revolutionary model also includes interchangeable lens mounts, a dedicated assist station with a second 5" HDR LCD touchscreen, built in ND filters and industry standard Lemo and Fischer connections. Blackmagic URSA Cine comes with a massive 8TB of removable high performance media storage built in and also includes high speed 10G Ethernet and WiFi for fast media upload and syncing to Blackmagic Cloud.

**A\$24,505**

## Camera Features

### Effective Sensor Size

35.64mm x 23.32mm (Large Format)

### Pixel Pitch

2.9 microns

### Lens Mount

PL mount. Interchangeable with URSA Cine lockable EF mount included.

### Lens Control

Lens control of compatible EF lenses.  
Lens data from compatible PL lenses and control of some PL lenses.

### Dynamic Range

16 Stops

### Shooting Formats

12,288 x 8040 (12K 3:2 open gate)  
12,288 x 6912 (12K 16:9)  
12,288 x 6480 (12K 17:9)  
12,288 x 5112 (12K 2.4:1)  
9648 x 8040 (12K 6:5)  
9408 x 6264 (9K 3:2)  
8688 x 4896 (9K 16:9)  
9312 x 4896 (9K 17:9)  
9312 x 3864 (9K 2.4:1)  
7680 x 6408 (9K 6:5)  
8192 x 5360 (8K 3:2 open gate)  
8192 x 4608 (8K 16:9)  
8192 x 4320 (8K 17:9)  
8192 x 3408 (8K 2.4:1)  
6432 x 5360 (8K 6:5)  
4096 x 2680 (4K 3:2 open gate)  
4096 x 2304 (4K 16:9)  
4096 x 2160 (4K 17:9)  
4096 x 1704 (4K 2.4:1)  
3216 x 2680 (4K 6:5)

### Frame Rates

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

### High Speed Frame Rates

12K 3:2 open gate up to 80 fps  
12K 17:9 up to 100 fps  
12K 2.4:1 up to 120 fps  
9K 3:2 Super 35 up to 100 fps  
8K / 4K 3:2 open gate up to 144 fps  
8K / 4K 2.4:1 up to 224 fps

### Built in ND Filters

Button activated ND filters with clear, 2-stop, 4-stop and 6-stop IR ND filters.

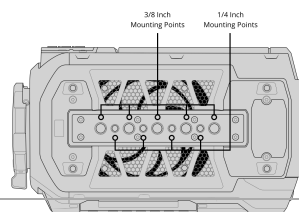
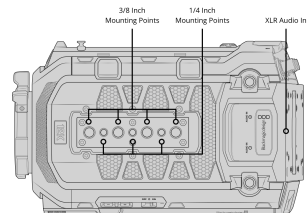
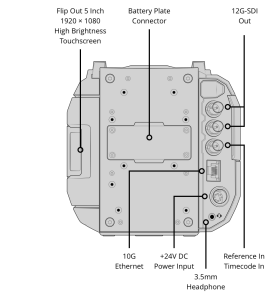
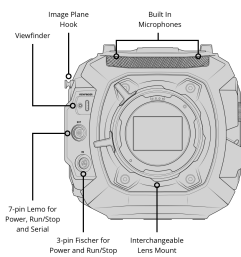
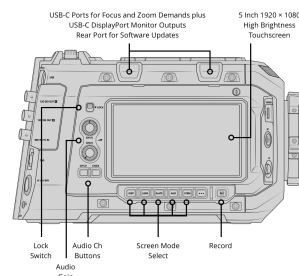
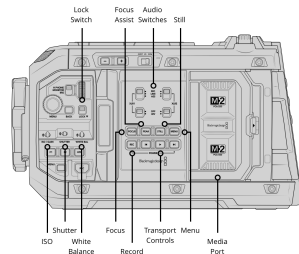
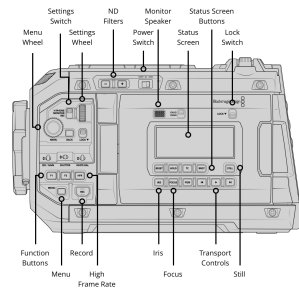
### Focus

Focus button turns on peaking, auto focus available using compatible lenses.

<p><b>Iris Control</b> 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.</p> <p><b>Screens</b> 2 x Monitoring Screens 1 x Camera Status Screen</p> <p><b>Monitoring Screen Dimensions</b> 5 inch.</p> <p><b>Monitoring Screen Resolution</b> 1920px x 1080px</p>	<p><b>Monitoring Screen Brightness</b> 1500 nits.</p> <p><b>Monitoring Screen Type</b> LCD capacitive touchscreen</p> <p><b>Metadata Support</b> Automatically populated lens data from i/Technology with compatible PL, LPL 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.</p>	<p><b>Controls</b> Touchscreen menus on 5 inch screen. Push buttons for other controls. 7 assignable shortcut keys plus 6 assignable viewfinder shortcut keys on optional URSA Cine EVF.</p> <p><b>Timecode Clock</b> Highly accurate timecode clock. Less than 1 frame drift every 8 hours.</p>
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## Connections

<p><b>Total Video Outputs</b> 2</p> <p><b>SDI Rates</b> 1.5G, 3G, 6G, 12G.</p> <p><b>Analog Audio Inputs</b> 2 x XLR analog switchable between mic, line and AES audio. Phantom power support.</p> <p><b>Analog Audio Outputs</b> 1 x 3.5mm headphone jack</p> <p><b>Reference Inputs</b> Tri-Sync/Black Burst and Timecode.</p>	<p><b>Viewfinder</b> 1 x Viewfinder USB-C with video, power, camera control data and locking connector. Works with URSA Cine EVF and PYXIS Monitor.</p> <p><b>USB-C Monitor Outputs</b> 2 x USB-C side monitor ports support URSA Cine EVF, PYXIS Monitor or DisplayPort monitors.</p> <p><b>Accessories</b> 1 x 7-pin Lemo 'EXT' for power out, serial communication, and run/stop. 1 x 3-pin Fischer 'RS' for power out and run/stop.</p>	<p><b>Computer Interface</b> 2 x USB-C side expansion ports for camera accessories. Software updates using side USB-C closer to rear.</p> <p><b>Ethernet</b> 1 x 10Gb/s RJ-45 connector supporting 10/100/1000/10G BASE-T for SMB file sharing, Web Media Management, Blackmagic Cloud uploads, camera control and streaming.</p>
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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

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## Media

### Media

1 x Blackmagic Media Module.

### Media Format

Blackmagic

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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 Bitrate  
18:1,  
Blackmagic RAW Constant Quality Q0,  
Blackmagic RAW Constant Quality Q1,  
Blackmagic RAW Constant Quality Q3,  
Blackmagic RAW Constant Quality Q5.  
H.264 Proxy in 1920 x 1080, 8-bit  
4:2:0

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## Control

### External Control

Blackmagic URSA Cine EVF can trigger record plus camera functions assigned to the VF1, VF2, VF3, Zoom, Exp and Record buttons. External Camera Control supported using REST API over Ethernet, WiFi or serial communication via the 7-pin Lemo connector. Run / Stop supported via 3-pin Fischer and 7-pin Lemo connector. Blackmagic iPad control and Bluetooth control supported. Blackmagic Zoom Demand and Blackmagic Focus Demand for controlling camera and compatible lenses.

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## Streaming

### Direct Streaming

Supports Secure Reliable Transport (SRT) and Real Time Messaging Protocol (RTMP) local live streaming using a Ethernet or WiFi, or global live streaming using an internet connection via Ethernet, WiFi or USB-C cellular data.

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## Network Management

### NTP

Network time protocol support allows you to sync the time on your camera, whenever connected to a network with any NTP server of your choice.

### FTP

Download files from any drive attached to your camera using FTP.

### Web Media Manager

Using a browser connected over Ethernet, web media manager allows you to access, browse, download and delete files from any drive connected to the camera.

### SMB

File sharing using SMB

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## Storage Features

### Storage Type

1 x Blackmagic Media Module 8TB

### Storage Rates

Storage rates based on 24 frames per second.

12K - 12,288 x 8040

Blackmagic RAW 3:1 - 1,194 MB/s

Blackmagic RAW 8:1 - 448 MB/s

Blackmagic RAW 12:1 - 298 MB/s

Blackmagic RAW 18:1 - 199 MB/s

Blackmagic RAW Q0 - 298 to 1,432 MB/s

Blackmagic RAW Q1 - 179 to 716 MB/s

Blackmagic RAW Q3 - 119 to 298 MB/s

Blackmagic RAW Q5 - 90 to 224 MB/s

9K - 9408 x 6264

Blackmagic RAW 3:1 - 713 MB/s

Blackmagic RAW 8:1 - 268 MB/s

Blackmagic RAW 12:1 - 178 MB/s

Blackmagic RAW 18:1 - 119 MB/s

Blackmagic RAW Q0 - 178 to 856 MB/s

Blackmagic RAW Q1 - 107 to 428 MB/s

Blackmagic RAW Q3 - 71 to 178 MB/s

Blackmagic RAW Q5 - 54 to 134 MB/s

8K - 8192 x 5360

Blackmagic RAW 3:1 - 533 MB/s

Blackmagic RAW 5:1 - 320 MB/s

Blackmagic RAW 8:1 - 200 MB/s

Blackmagic RAW 12:1 - 133 MB/s

Blackmagic RAW Q0 - 133 to 319 MB/s

Blackmagic RAW Q1 - 80 to 200 MB/s

Blackmagic RAW Q3 - 53 to 133 MB/s

Blackmagic RAW Q5 - 40 to 100 MB/s

4K - 4096 x 2680

Blackmagic RAW 3:1 - 135 MB/s

Blackmagic RAW 4:1 - 101 MB/s

Blackmagic RAW 5:1 - 81 MB/s

Blackmagic RAW 6:1 - 68 MB/s

Blackmagic RAW Q0 - 34 to 81 MB/s

Blackmagic RAW Q1 - 20 to 50 MB/s

Blackmagic RAW Q3 - 13 to 34 MB/s

Blackmagic RAW Q5 - 10 to 25 MB/s

## Recording Formats

Blackmagic RAW 3:1, 8:1, 12:1, 18:1,

Q0, Q1, Q3 and Q5 at full sensor

width or height resolutions:

[12,288 x 8,040], [12,288 x 6,912],

[12,288 x 6,480], [12,288 x 5,112] and

[9,648 x 8,040]

with film, extended video or video

dynamic range or custom 3D LUT

embedded in metadata plus

simultaneous recording of H.264

1920 x 1080 Proxies.

Blackmagic RAW 3:1, 8:1, 12:1, 18:1,

Q0, Q1, Q3 and Q5 at Super 35

windowed sensor resolutions:

[9,408 x 6,264], [8,688 x 4,896],

[9,312 x 4,896], [9,312 x 3,864] and

[7,680 x 6,408]

with film, extended video or video

dynamic range or custom 3D LUT

embedded in metadata plus

simultaneous recording of H.264

1920 x 1080 Proxies.

Blackmagic RAW 3:1, 5:1, 8:1, 12:1,

Q0, Q1, Q3 and Q5 at full sensor

width or height scaled to:

[8,192 x 5,360], [8,192 x 4,608],

[8,192 x 4,320], [8,192 x 3,408] and

[6,432 x 5,360]

with film, extended video or video

dynamic range or custom 3D LUT

embedded in metadata plus

simultaneous recording of H.264

1920 x 1080 Proxies.

Blackmagic RAW 3:1, 4:1, 5:1, 6:1, Q0,

Q1, Q3 and Q5 at full sensor width or

height scaled to:

[4,096 x 2,680], [4,096 x 2,304],

[4,096 x 2,160], [4,096 x 1,704] and

[3,216 x 2,680]

with film, extended video or video

dynamic range or custom 3D LUT

embedded in metadata plus

simultaneous recording of H.264

1920 x 1080 Proxies.

Constant Quality Rates for 12K and 9K are: Q0 12:1 - 2.5:1, Q1 20:1 - 5:1, Q3 30:1 - 12:1, Q5 40:1 - 16:1

Constant Quality Rates for 8K and 4K are: Q0 12:1 - 5:1, Q1 20:1 - 8:1, Q3 30:1 - 12:1, Q5 40:1 - 16:1

Actual storage rates are dependent on image subject matter.

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## Software

### Software Included

URSA Cine 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 14.0 Sonoma,  
Mac 15.0 Sequoia or later.



Windows 10 and 11.

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## Power Requirements

### Power Supply

+24V DC external power supply 100 -  
240 AC 50/60Hz compatible with IEC  
C14 socket.  
B-Mount battery plate.

### Power Input

1 x 8 pin Lemo compatible socket for  
external power or battery use.  
Molex connector for rear  
battery plate.

### Power Output

1 x 7-pin connector with +24V DC  
power output when camera is  
powered by +24V DC batteries or  
power supply.  
1 x 3-pin Fischer with +24V DC power  
output when camera is powered by  
+24V DC batteries or power supply.  
B-Mount battery plate including 2-pin  
connector with +12V regulated  
output from camera.

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## Accessories

### **Optional Accessories**

Blackmagic URSA Cine EVF  
Blackmagic PYXIS Monitor  
Blackmagic PYXIS Monitor Kit  
Blackmagic PYXIS Monitor EVF Kit  
Blackmagic URSA Cine Mount PL  
Blackmagic URSA Cine Mount LPL  
Blackmagic URSA Cine Mount EF  
Blackmagic URSA Cine Mount Shims  
Blackmagic URSA Cine Battery Plate B Mnt  
Blackmagic URSA Cine Battery Plate Gold  
Blackmagic URSA Cine Battery Plate VLock  
Blackmagic URSA Cine Baseplate 15  
Blackmagic URSA Cine Baseplate 19  
Blackmagic URSA Cine Handle  
Blackmagic URSA Cine Grips  
Blackmagic URSA Cine 5" LCD Sunshade  
Blackmagic Media Dock  
Blackmagic Media Module 8TB  
ATEM Streaming Bridge



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

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## What's Included

Blackmagic URSA Cine 12K LF camera with PL lens mount  
Blackmagic Media Module 8TB  
Blackmagic URSA Cine Handle and bolts  
Blackmagic URSA Cine Top Rod Mount  
Blackmagic URSA Cine Baseplate 19  
Blackmagic URSA Cine Battery Plate B Mount  
Blackmagic URSA Cine Rubber Caps for connectors  
Blackmagic URSA Cine WiFi Antennas  
Blackmagic URSA Cine Mount EF and mount screws  
Blackmagic URSA Cine 24V 250W power supply  
Blackmagic EF Body Cap  
Blackmagic PL Body Cap  
Plastic folding screen hood for 5" LCD  
DaVinci Resolve Studio with activation key  
Welcome wallet with QR code for software download  
Blackmagic Sticker  
Pelican 1510 Case with custom foam

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## Warranty

1 Year Limited Manufacturer's  
Warranty.

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