

Blackmagic URSA Cine 12K LF 100G



\$13,605

This powerful Blackmagic URSA Cine 12K 100G model has a much faster 100G Ethernet port for SMPTE-2110 live video at incredibly high frame rates. With the new B4 lens mount for broadcast lenses, it can deliver up to 440fps! Your main cameras can also be high-frame-rate cameras, perfect for live sports and replay. You still get the large format RGBW 36x24mm sensor and 16 stops of dynamic range. It also works with the new URSA Cine Studio Viewfinder for a complete studio camera solution.

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)

4608 x 2592 (4.6K 16:9 B4 crop)

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

4.6K B4 crop 16:9 up to 240 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.

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.

Screens

2 x Monitoring Screens
1 x Camera Status Screen

Monitoring Screen Dimensions

5 inch.

Monitoring Screen Resolution

1920px x 1080px

Monitoring Screen Brightness

1500 nits.

Monitoring Screen Type

LCD capacitive touchscreen

Metadata Support

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.

Controls

Touchscreen menus on 5 inch screen. Push buttons for other controls. 6 assignable shortcut keys plus 6 assignable viewfinder shortcut keys on optional URSA Cine EVF.

Timecode Clock

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

Connections**Total Video Outputs**

3

SDI Video Outputs

2

SDI Rates

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

100G 2110 IP Networks

1 x 100G QSFP28 connection.

2110 IP Video Outputs

1 x 100G QSFP28 connection.

2110 IP Video Inputs

1 x 100G QSFP28 connection.

Senders and Receivers per 100G

1 x Ultra HD

Analog Audio Inputs

2 x XLR analog switchable between mic, line and AES audio. Phantom power support.
1 x 3.5mm headset jack

Analog Audio Outputs

1 x 3.5mm headset jack

Reference Inputs

Tri-Sync/Black Burst and Timecode. PTP clock and timecode over 2110 IP network.

Viewfinder

1 x Viewfinder USB-C with video, power, camera control data and locking connector. Works with URSA Cine EVF and PYXIS Monitor.

USB-C Monitor Outputs

2 x USB-C side monitor ports support URSA Cine EVF, PYXIS Monitor or DisplayPort monitors.

Accessories

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.

Computer Interface

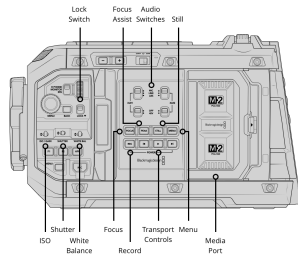
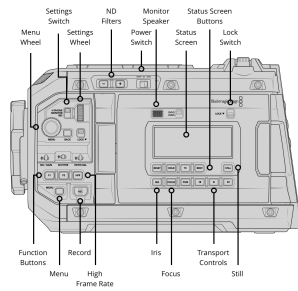
2 x USB-C side expansion ports for camera accessories.
Software updates using side USB-C closer to rear.

Ethernet

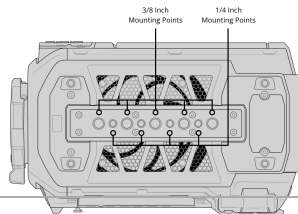
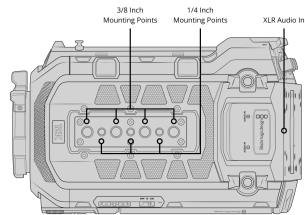
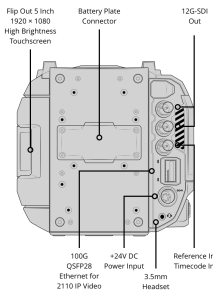
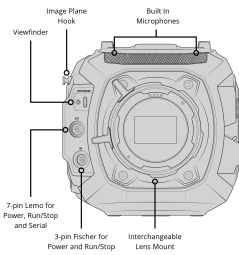
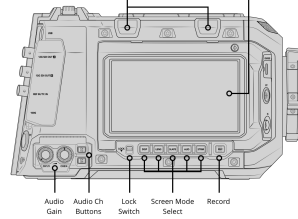
1 x 100Gb/s QSFP28 connector for sending and receiving 2110 IP video or SMB file sharing, Web Media Management, Blackmagic Cloud uploads, camera control and streaming.

Power

1 x 8-pin Lemo compatible +24V DC power input.



USB-C Ports for Focus and Zoom Demands plus
USB-C DisplayPort Monitor Outputs
Rear Port for Software Updates



Audio

Microphone

Integrated stereo microphone.

Built in Speaker

1 x mono speaker.

Standards

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

SMPTE Compliance

SMPTE 2110-20, SMPTE 2110-21,
SMPTE 2110-30, SMPTE 2110-40,
SMPTE 292M, SMPTE 424 level A and
B, SMPTE 2081-1, SMPTE 2082-1

SDI Audio Sampling

48 kHz and 24 bit

IP Video Compliance

SMPTE 2110-20

(Uncompressed Video)

IGMP v2

SMPTE 2110-21 (Traffic Shaping)

Sender: Narrow

Receiver: Narrow, Wide Synchronous,
Asynchronous

SMPTE 2110-30 (PCM)

Audio Conformance level: Level C

SMPTE 2110-40 (Ancillary Data)

Full access to entire SMPTE ancillary
data stream. Includes RP 188/SMPTE
12M-2, closed captioning and HDR
static metadata.

Codec

Blackmagic IP10 codec optional for
2160p59.94 and 2160p60 as 2110
IP video.

Precision Time Protocol

IEEE 1588-2008 (PTP v2)
ST 2059-1
ST 2059-2

NMOS IS-04 Discovery and

Registration

v1.3.2

Peer-to-peer via mDNS/DNS-SD

NMOS IS-05 Connection

Management

v1.1.2

NMOS BCP-002-01

Natural Grouping

NMOS BCP-004-01

Receiver capabilities

Media

Media

1 x Blackmagic Media Module.

Media Format

Blackmagic

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
Blackmagic IP10

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.

Cloud Synchronization



Blackmagic Cloud

[Learn More](#)

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.

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

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 - 299 MB/s

Blackmagic RAW 18:1 - 199 MB/s

Blackmagic RAW Q0 - 398 to 1,433 MB/s

Blackmagic RAW Q1 - 326 to 796 MB/s

Blackmagic RAW Q3 - 179 to 448 MB/s

Blackmagic RAW Q5 - 120 to 358 MB/s

9K - 17,520 x 8,040

Blackmagic RAW 3:1 - 714 MB/s

Blackmagic RAW 8:1 - 268 MB/s

Blackmagic RAW 12:1 - 179 MB/s

Blackmagic RAW 18:1 - 119 MB/s

Blackmagic RAW Q0 - 238 to 857 MB/s

Blackmagic RAW Q1 - 195 to 476 MB/s

Blackmagic RAW Q3 - 107 to 268 MB/s

Blackmagic RAW Q5 - 72 to 214 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 - 320 to 639 MB/s

Blackmagic RAW Q1 - 228 to 533 MB/s

Blackmagic RAW Q3 - 133 to 400 MB/s

Blackmagic RAW Q5 - 100 to 266 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 - 202 to 336 MB/s

Blackmagic RAW Q1 - 135 to 311 MB/s

Blackmagic RAW Q3 - 101 to 238 MB/s

Blackmagic RAW Q5 - 81 to 202 MB/s

Constant Quality Rates for 17K and 12K are: Q0 9:1 - 2.5:1, Q1 11:1 - 4.5:1, Q3 20:1 - 8:1, Q5 30:1 - 10:1

Constant Quality Rates for 8K are: Q0 5:1 - 2.5:1, Q1 7:1 - 3:1, Q3 12:1 - 4:1, Q5 16:1 - 6:1

Constant Quality Rates for 4K are: Q0 2:1 - 1.2:1, Q1 3:1 - 1.3:1, Q3 4:1 - 1.7:1, Q5 5:1 - 2:1

Actual storage rates are dependent on image subject matter.

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.

Blackmagic RAW 3:1, 8:1, 12:1, 18:1, Q0, Q1, Q3 and Q5 at: [4608 x 2592]

sensor centre crop format suitable for Blackmagic URSA Cine Mount B4 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.

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

Operating Systems



Mac 15.0 Sequoia,
Mac 26.0 Tahoe or later.



Windows 11

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.

Accessories

Optional Accessories

Blackmagic URSA Cine EVF
Blackmagic URSA Cine Studio Viewfinder
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 B4
Blackmagic URSA Cine B4 Adapter Cable
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 CF
Blackmagic Media Module 8TB
Blackmagic Media Module 16TB
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

What's Included

Blackmagic URSA Cine 12K LF 100G 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

Warranty

1 Year Limited Manufacturer's
Warranty.

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