

## Blackmagic URSA Cine Immersive 100G



**\$29,145**

The Blackmagic URSA Cine Immersive 100G is the world's first camera for live immersive production, featuring faster 100G Ethernet for SMPTE-2110 live video output. This versatile camera handles shooting, post production and live production equally well. It includes dual 8Kx8K RGBW sensors running at 90fps with an incredible 16 stops of dynamic range, delivering stunning immersive content with the quality that both live broadcast and high end digital film workflows demand!

### Camera Features

#### Sensors

2 x 8K sensors.  
Left eye and right eye.

#### Pixel Pitch

2.9 microns.

#### Lens

Fixed focal length, 180°+ field of view, stereo lens pair.

#### Dynamic Range

16 Stops.

#### Shooting Formats

8K x 8K stereo immersive.

#### Frame Rates

Project frame rates of 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 and 90 fps supported.

#### High Speed Frame Rates

8K stereo immersive up to 90 fps.

#### Built in ND Filters

Button activated ND filters with clear, 2-stop, 4-stop, 6-stop and 8-stop IR ND filters.

#### Iris Control

Fixed iris.

#### 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.

#### Monitoring Options

Left Eye, Right Eye, Punch In, or Side by Side.

#### Metadata Support

Discrete left and right eye optical calibration metadata. 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. 7 assignable shortcut keys plus 3 assignable shortcut keys on PXYIS Monitor. Fischer connector for remote run/stop.

#### Timecode Clock

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

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## Connections

### **Total Video Outputs**

3

### **SDI Video Outputs**

2

### **SDI Rates**

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

### **2110 IP Video Outputs**

1 x 100G QSFP28 connection.

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1 x 100G QSFP28 connection.

### **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.

### **Reference Inputs**

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

### **USB-C Monitor Outputs**

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

### **Computer Interface**

2 x USB-C side expansion ports for camera accessories.

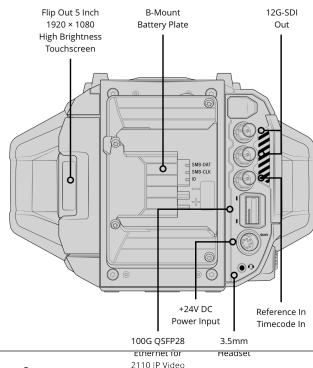
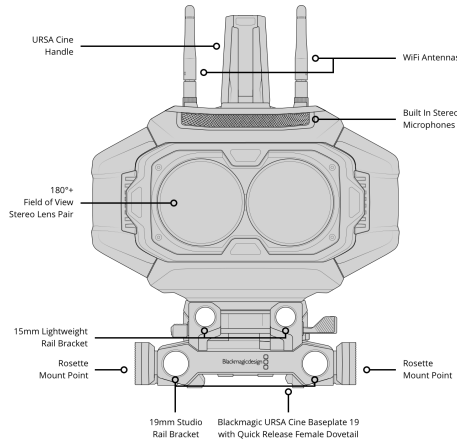
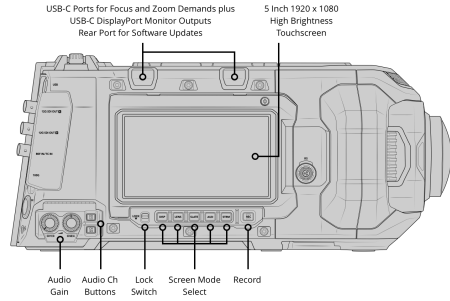
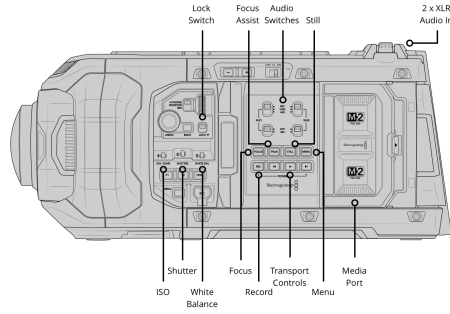
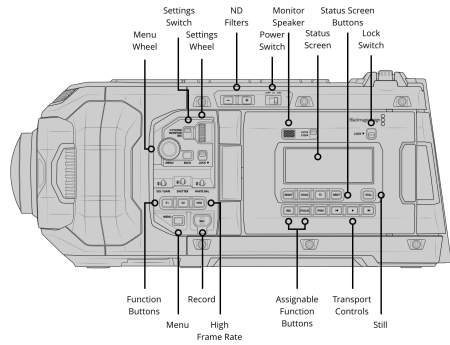
Software updates using side USB-C closest to rear.

### **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.



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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.

## IP Video Compliance

### SMPTE 2110-20 (Uncompressed Video)

None

### 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

SMPTE 2110-22 Constant Bit-Rate  
compressed video. Apple ProRes HQ,  
Apple ProRes or Apple ProRes LT with  
optional Blackmagic URSA Live  
Encoder.

### 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

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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 5:1	With optional Blackmagic URSA Live Encoder
Blackmagic RAW Constant Bitrate 8:1	Apple ProRes HQ
Blackmagic RAW Constant Bitrate 12:1	Apple ProRes
Blackmagic RAW Constant Bitrate 18:1	Apple ProRes LT
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 PYXIS Monitor can trigger record plus camera functions assigned to the F1, F2, F3. External Camera Control supported using REST API over Ethernet or WiFi. Blackmagic iPad control and Bluetooth control supported. Blackmagic Zoom Demand for controlling camera.

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## Cloud Synchronization



**Blackmagic Cloud**

[Learn More](#)

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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. It also enables, disables control over REST API.

### SMB

File sharing using SMB.

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## Storage Features

### Storage Type

1 x Blackmagic Media Module 8TB.

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## Storage Rates

Storage rates based on 90 frames per second.

### 8K Stereo Immersive

8160 x 7200 x 2

Blackmagic RAW 5:1 - 3,203 MB/s

Blackmagic RAW 8:1 - 2,002 MB/s

Blackmagic RAW 12:1 - 1,335 MB/s

Blackmagic RAW 18:1 - 889 MB/s

Blackmagic RAW Q0 - 1,779 to 4,003 MB/s

Blackmagic RAW Q1 - 1,456 to 3,558 MB/s

Blackmagic RAW Q3 - 801 to 2,002 MB/s

Blackmagic RAW Q5 - 534 to 1,602 MB/s

Constant Quality Rates are: Q0 9:1 - 4:1, Q1 11:1 - 4.5:1, Q3 20:1 - 8:1, Q5 30:1 - 10:1

Actual storage rates are dependent on image subject matter.

### Recording Formats

Blackmagic RAW 5:1, 8:1, 12:1, 18:1, Q0, Q1, Q3 and Q5 at 8160 x 7200 resolution for each eye.

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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 15.0 Sequoia,  
Mac 26.0 Tahoe or later.



Windows 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 Inputs

1 x 8 pin Lemo compatible socket for external power or battery use.

Molex connector for rear battery plate.

### Power Outputs

B-Mount battery plate including 2-pin connector with +12V regulated output from camera.

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## Accessories

### **Optional Accessories**

Blackmagic PYXIS Monitor  
Blackmagic PYXIS Monitor Kit  
Blackmagic PYXIS Monitor EVF Kit  
Blackmagic URSA Cine EVF  
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 5" LCD Sunshade  
Blackmagic Media Dock Ultra  
Blackmagic Media Dock  
Blackmagic Media Module 16TB  
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 Immersive 100G camera  
Blackmagic Media Module 8TB  
Blackmagic URSA Cine Handle and bolts  
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 24V 250W power supply  
Blackmagic Immersive Stereo Lens Cover  
Plastic folding screen hood for 5" LCD  
DaVinci Resolve Studio with activation key  
Welcome wallet with QR code for software download  
Pelican 1560 Case with custom foam

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## Warranty

1 Year Limited Manufacturer's  
Warranty.

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