

## Blackmagic URSA Broadcast



URSA Broadcast is an advanced Ultra HD broadcast camera that works with your existing HD or Ultra HD B4 lenses so you can shoot HD today and switch to Ultra HD when you're ready! You get professional broadcast controls, built in ND filters, non stop 12-bit recording of ProRes and DNx files to dual SD UHS-II or CFast cards, and new extended video range for stunning broadcast ready shots that can go straight to air. URSA Broadcast is two cameras in one. Use it for production work or add a Blackmagic URSA Studio Viewfinder to turn it into a live studio camera with remote control and built in color corrector!

**\$3,495**

### Camera Features

#### Effective Sensor Size

2/3 inch sensor size when using 4K B4 mount (Actual sensor size 13.056mm x 7.344mm)

#### Lens Mount

B4 2/3 inch

#### Lens Control

Electronic control via 12-pin broadcast connector. Control also possible via EF mount pins when using optional URSA Mini Pro EF Mount.

#### Dynamic Range

12 Stops+

#### Shooting Resolutions

3840x2160, 1920x1080

#### Frame Rates

Project frame rates of 23.98, 24, 25, 29.97, 30, 50, 59.94 and 60 fps supported. Off-speed frame rates up to 60p.

#### Built in ND Filters

Four position ND filter wheel with clear, 2-stop, 4-stop and 6-stop ND filters.

#### Focus

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

#### 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 and extended video mode.

#### Screen Dimensions

4 inch.

#### Screen Type

LCD capacitive touchscreen.

#### Metadata Support

Automatically populated lens data from electronic B4 lenses. 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. 2 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 SDI

### Total Video Outputs

1 x SDI, 1 x SDI Monitoring.

### SDI Rates

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

### Analog Audio Inputs

2 x XLR switchable between mic, line and AES digital audio.  
Phantom power support.

### Analog Audio Outputs

1 x 3.5mm headphone jack, supports iPhone microphone for talkback.

### Reference Inputs

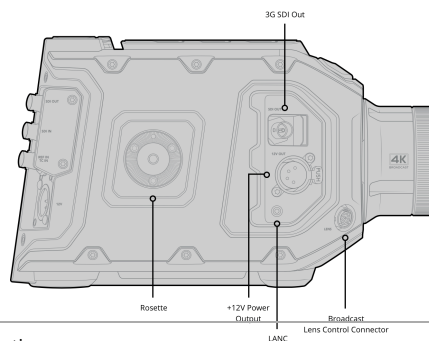
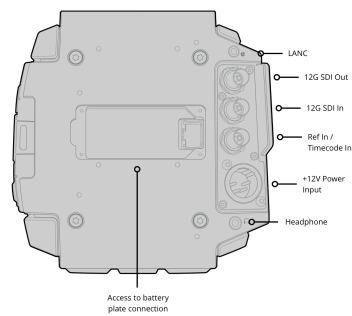
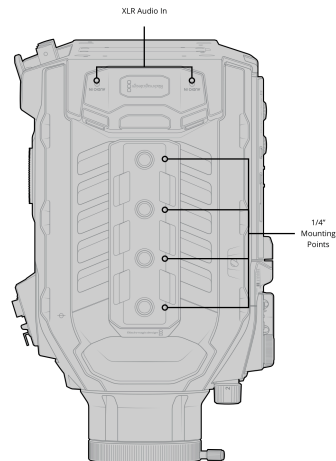
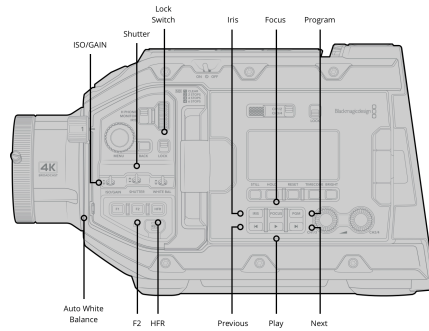
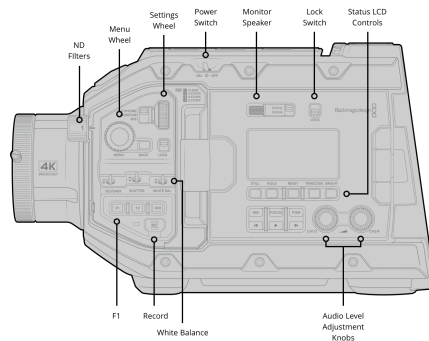
Tri-Sync/Black Burst/Timecode.

### Remote Control

2 x 2.5mm LANC input for Rec Start/Stop, plus Iris and Focus control using compatible lenses.

### Computer Interface

USB Type-C for software updates.



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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, Interlaced output via SDI 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

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## Media

### Media

2 x CFast for 4K RAW and ProRes recording. 2 x SD UHS-II card slots for HD and Ultra HD recording.

### Media Format

Can format cards to ExFAT for Windows and Mac or HFS+ for 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.

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## Supported Codecs

### Codecs

DNxHD 220X, DNxHD 145, Apple ProRes 4444 XQ QuickTime, ProRes 4444 QuickTime, ProRes 422 HQ QuickTime, ProRes 422 QuickTime, ProRes 422 LT QuickTime and ProRes 422 Proxy QuickTime, CinemaDNG RAW, CinemaDNG RAW 3:1, CinemaDNG RAW 4:1.

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## Control

### External Control

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

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## Color Corrector

### Color Corrector

DaVinci YRGB.

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## Talkback and Tally

### Talkback

SDI Channels 15/16  
and iPhone headset.

### Live Tally Indicator

Tally on LCD, URSA Viewfinder  
and URSA Studio Viewfinder.

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## Storage Features

### Storage Type

2 x CFast 2.0  
2 x SD UHS-II cards  
2.5 inch SSD via optional URSA Mini  
SSD Recorder

### Storage Rates

3840 x 2160  
Apple ProRes 444 XQ - 250 MB/s  
Apple ProRes 444 - 165 MB/s Apple  
ProRes 422 HQ - 110 MB/s Apple  
ProRes 422 - 73.6 MB/s Apple ProRes  
422 LT - 51 MB/s Apple ProRes Proxy -  
22.4 MB/s  
1920 x 1080  
Apple ProRes 444 XQ - 62.5 MB/s  
Apple ProRes 444 - 41.25 MB/s Apple  
ProRes 422 HQ - 27.5 MB/s Apple  
ProRes 422 - 18.4 MB/s Apple ProRes  
422 LT - 12.75 MB/s Apple ProRes  
Proxy - 5.6 MB/s  
DNxHD 220X - 27.5 MB/s  
DNxHD 145 - 18.2 MB/s Storage rates  
based on 30 frames per second.

### Recording Formats

DNxHD 1920x1080 and 1920x1080i  
with either film, video or extended  
video dynamic range. Apple ProRes  
3840x2160 and 1920x1080 with  
either film, video or extended video  
dynamic range. Lossless  
CinemaDNG RAW, RAW 3:1 and  
RAW 4:1 with film dynamic range  
at 3840x2160.

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## Software

### Software Included

URSA Mini Operating System.  
Blackmagic Camera Setup.

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## Operating Systems



Mac 10.11 El Capitan,  
Mac 10.12 Sierra,  
Mac 10.13 High Sierra or later.



Windows 8.1 or Windows 10.

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## Power Requirements

### Power Supply

1 x External 12V power supply.

### 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.

### Power

Rear camera mount compatible with  
industry standard V-mount  
or gold mount battery plates.

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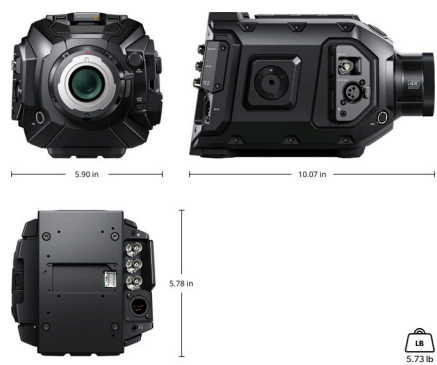
## Accessories

### Optional Accessories

Blackmagic URSA Viewfinder  
Blackmagic URSA Studio Viewfinder  
Blackmagic Shoulder Mount Kit  
Blackmagic Camera Fiber Converter  
Blackmagic Studio Fiber Converter  
Interchangeable Lens Mount for EF, PL or F mount lenses  
Blackmagic URSA Mini Mic Mount  
Blackmagic URSA Mini SSD Recorder  
Blackmagic URSA VLock Battery Plate  
Blackmagic URSA Gold Battery Plate

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## Physical Specifications



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## 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

- URSA Broadcast body
  - Turret dust cap
  - B4 lens mount
  - Power supply
  - SD card with software and manual
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## Warranty

12 Month Limited Manufacturer's  
Warranty.

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