

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, 12-bit Blackmagic RAW, and 10-bit or 12-bit ProRes and DNxHD recording. URSA Broadcast features dual SD UHS-II and CFast card slots for non stop recording. In addition to traditional video shooting mode, extended video mode gives you the dynamic range of digital film in a broadcast friendly format for stunning shots that can go straight to air without needing color correction. 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 possible via EF mount pins when using optional URSA Mini Pro EF Mount.

Lens Correction

In-camera correction of color fringing when using compatible B4 lenses.

Dynamic Range

12 Stops

Shooting Resolutions

3840 x 2160, 1920 x 1080

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. 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 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.
3 assignable shortcut keys on camera
and 2 assignable shortcut keys (VTR
and RET) on compatible B4 lenses.

Timecode Clock

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

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

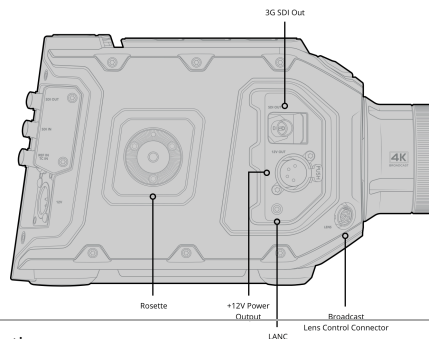
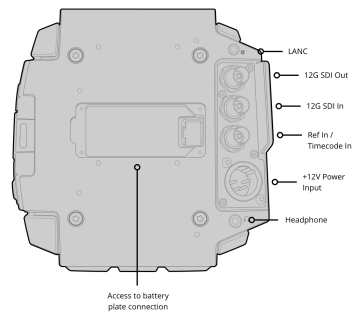
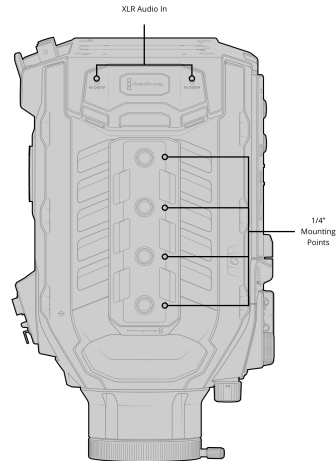
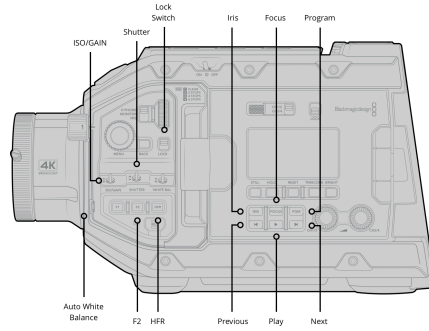
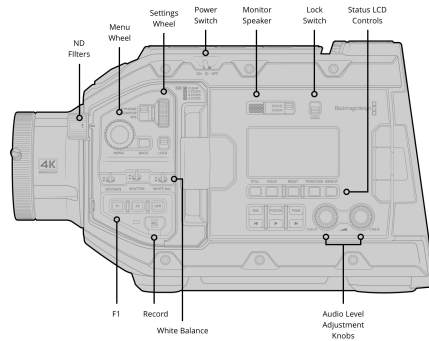
Tri-Sync/Black Burst/Timecode.

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.



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
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

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 for compatible media.

Supported Codecs

Codecs

DNxHD 220X,
DNxHD 145,
Apple ProRes 4444 XQ QuickTime,
Apple ProRes 4444 QuickTime,
Apple ProRes 422 HQ QuickTime,
Apple ProRes 422 QuickTime,
Apple ProRes 422 LT QuickTime,
Apple ProRes 422 Proxy QuickTime.
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 Quality Q0,
Blackmagic RAW Constant Quality Q5

Control

External Control

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

Color Corrector

Color Corrector

DaVinci YRGB.

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
2.5 inch SSD via optional URSA Mini
SSD Recorder

Storage Rates

Storage rates based on 30 frames per second.

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

Blackmagic RAW 3:1 - 127 MB/s

Blackmagic RAW 5:1 - 76 MB/s

Blackmagic RAW 8:1 - 48 MB/s

Blackmagic RAW 12:1 - 32 MB/s

Blackmagic RAW Q0 - 76 to 191 MB/s

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Blackmagic RAW Q5 - 19 to 55 MB/s

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1920 x 1080

DNxHD 220X - 27.5 MB/s

DNxHD 145 - 18.2 MB/s

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

*

Constant Quality setting Q0 storage rates quoted are indicative only, based on a 2:1 - 5:1 compression range.

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Constant Quality setting Q5 storage rates quoted are indicative only, based on a 7:1 - 20:1 compression range.

Actual storage rates are entirely dependent on image subject matter.

Recording Formats

DNxHD 1920 x 1080 and 1920 x 1080i with either film, video or extended video dynamic range.

Apple ProRes 3840 x 2160 and 1920 x 1080 with either film, video or extended video dynamic range.

Blackmagic RAW Q0, Q5, 3:1, 5:1, 8:1 and 12:1 at 3840 x 2160 with film, extended video or video dynamic range.

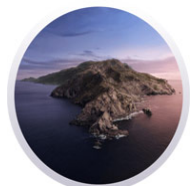
Software

Software Included

URSA Mini Operating System.

Blackmagic Camera Setup.

Operating Systems



Mac 10.14 Mojave,
Mac 10.15 Catalina or later.



Windows 8.1 and 10.

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.

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

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

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

Warranty

12 Month Limited
Manufacturer's Warranty.

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