

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!

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.

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. Please refer to either the Manual or the Information Note at www.blackmagicdesign.com/support for compatible media.

Media Format

Can format cards to ExFAT for Windows and Mac or HFS+ for Mac (file systems).

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.

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

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.

Software

Software Included

URSA Mini Operating System.
Blackmagic Camera Setup.

Operating Systems

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

Windows 8.1 or Windows 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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