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

<table>
<thead>
<tr>
<th>Total Video Inputs</th>
<th>Total Video Outputs</th>
<th>SDI Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x SDI</td>
<td>1 x SDI, 1 x SDI Monitoring</td>
<td>1.5G, 3G, 6G, 12G</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Analog Audio Inputs</th>
<th>Reference Inputs</th>
<th>Remote Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x XLR switchable between mic, line and AES digital audio. Phantom power support.</td>
<td>Tri-Sync/Black Burst/Timecode.</td>
<td>2 x 2.5mm LANC input for Rec Start/Stop, plus Iris and Focus control using compatible lenses.</td>
</tr>
</tbody>
</table>

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<tr>
<th>Analog Audio Outputs</th>
<th>Computer Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 3.5mm headphone jack, supports iPhone microphone for talkback.</td>
<td>USB Type-C for software updates.</td>
</tr>
</tbody>
</table>
Audio

**Microphone**
Integrated stereo microphone.

**Built in Speaker**
1 x mono speaker.

Standards

<table>
<thead>
<tr>
<th>SD Video Standards</th>
<th>Ultra HD Video Standards</th>
<th>SDI Audio Sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60</td>
<td>48 kHz and 24 bit</td>
</tr>
<tr>
<td>HD Video Standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interlaced output via SDI 1080i50, 1080i59.94, 1080i60</td>
<td></td>
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SDI Compliance
SMPTE 292M, SMPTE 424 Level B, SMPTE 2081-1, SMPTE 2082-1

Media

<table>
<thead>
<tr>
<th>Media</th>
<th>Media Format</th>
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</thead>
<tbody>
<tr>
<td>2 x CFast for 4K RAW and ProRes recording. 2 x SD UHS-II card slots for HD and Ultra HD recording.</td>
<td>Can format cards to ExFAT for Windows and Mac or HFS+ for Mac (file systems).</td>
</tr>
</tbody>
</table>

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

Supported Codecs

**Codecs**
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.

<table>
<thead>
<tr>
<th>Format</th>
<th>MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>3840 x 2160 Apple ProRes 444 XQ</td>
<td>250</td>
</tr>
<tr>
<td>3840 x 2160 Apple ProRes 444</td>
<td>165</td>
</tr>
<tr>
<td>3840 x 2160 Apple ProRes 422 HQ</td>
<td>110</td>
</tr>
<tr>
<td>3840 x 2160 Apple ProRes 422</td>
<td>73.6</td>
</tr>
<tr>
<td>3840 x 2160 Apple ProRes Proxy</td>
<td>51</td>
</tr>
<tr>
<td>1920 x 1080 Blackmagic RAW 3:1</td>
<td>127</td>
</tr>
<tr>
<td>1920 x 1080 Blackmagic RAW 5:1</td>
<td>76</td>
</tr>
<tr>
<td>1920 x 1080 Blackmagic RAW 8:1</td>
<td>48</td>
</tr>
<tr>
<td>1920 x 1080 Blackmagic RAW 12:1</td>
<td>32</td>
</tr>
<tr>
<td>1920 x 1080 Blackmagic RAW Q0</td>
<td>76 to 191</td>
</tr>
<tr>
<td>1920 x 1080 Blackmagic RAW Q5</td>
<td>19 to 55</td>
</tr>
</tbody>
</table>

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

** 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 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

![Physical Specifications Image]

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.

Blackmagic Design Authorized Reseller