

# Blackmagic URSA

## Technical Specifications

### Blackmagic URSA EF Technical Specifications

**Description** Get the URSA camera with the EF lens mount and amazing 4K Super 35 image sensor with global shutter installed. The EF lens mount includes active lens control for compatibility with both active and passive EF mount lenses. URSA EF makes it easy to use a wide range of high quality lenses such as low cost DSLR photo lenses from companies such as Canon, Zeiss and more!

**Camera Features**

**Effective Sensor Size**  
21.12mm x 11.88mm (Super 35)

**Effective Resolution**  
3840 x 2160

**Shooting Resolutions**  
3840 x 2160, 1920 x 1080

**Frame Rates**  
3840 x 2160p23.98, 3840 x 2160p24, 3840 x 2160p25, 3840 x 2160p29.97, 3840 x 2160p30, 3840 x 2160p50, 3840 x 2160p60, 1920 x 1080p23.98, 1920 x 1080p24, 1920 x 1080p25, 1920 x 1080p29.97, 1920 x 1080p30, 1920 x 1080p50, 1920 x 1080p59.94, 1920 x 1080p60, 1920 x 1080i50, 1920 x 1080i59.94 and 1920 x 1080i60

**Sensor frame rate support**  
Up to 60 fps

**Dynamic Range**  
12 stops

**Focus**  
Focus button turns on peaking, focus bubbles, auto focus available on active lens mount.

**Iris Control**  
Iris button automatically adjusts the lens iris settings so no pixel is clipped in film mode. Scene average auto exposure in video mode.

**Lens Mount**  
EF Mount

**Screen Dimensions**  
1 x 10.1" – 1920 x 1200  
2 x 5" – 800 x 480

**Screen Type**  
10.1" – TFT-LCD  
5" – Integrated LCD capacitive touchscreen

**Metadata Support**  
Automatic camera data and user data such as shot number, filenames and keywords.

**Controls**  
Touch screen menus on 5" screen. Push button controls for navigating menus.

**Microphone**  
Integrated mono microphone

**Speaker**  
Integrated mono speaker

**Mounting Options**  
Multiple 1/4"-20 UNC thread mounting on top of camera and on handle bar. Rosette on bottom. Integrated rods mounts compatible with 15mm Light Weight Support standard.

**Storage Features**

**Storage Type**  
CFast 2.0

**Storage Rates**

**Compressed Recording Formats**  
Lossless compressed CinemaDNG  
RAW with film dynamic range at 3840 x 2160. Apple ProRes 422

Approx 880 Mbps using Apple ProRes 422 (HQ) at 3840 x 2160.  
Approx 220 Mbps using Apple ProRes 422 (HQ) at 1920 x 1080.

(HQ) at 3840 x 2160 and 1920 x 1080 with either film or video dynamic range.

## Connections

**SDI Video Output**  
1 x 12G-SDI 10-bit 4:2:2. 1 x 3G-SDI down converted for external monitoring

**SDI Video Input**  
1 x 12G-SDI

**Ref Input**  
1 x Reference Input

**Timecode Input**  
1 x Timecode Input

**Timecode Output**  
1 x Timecode Output

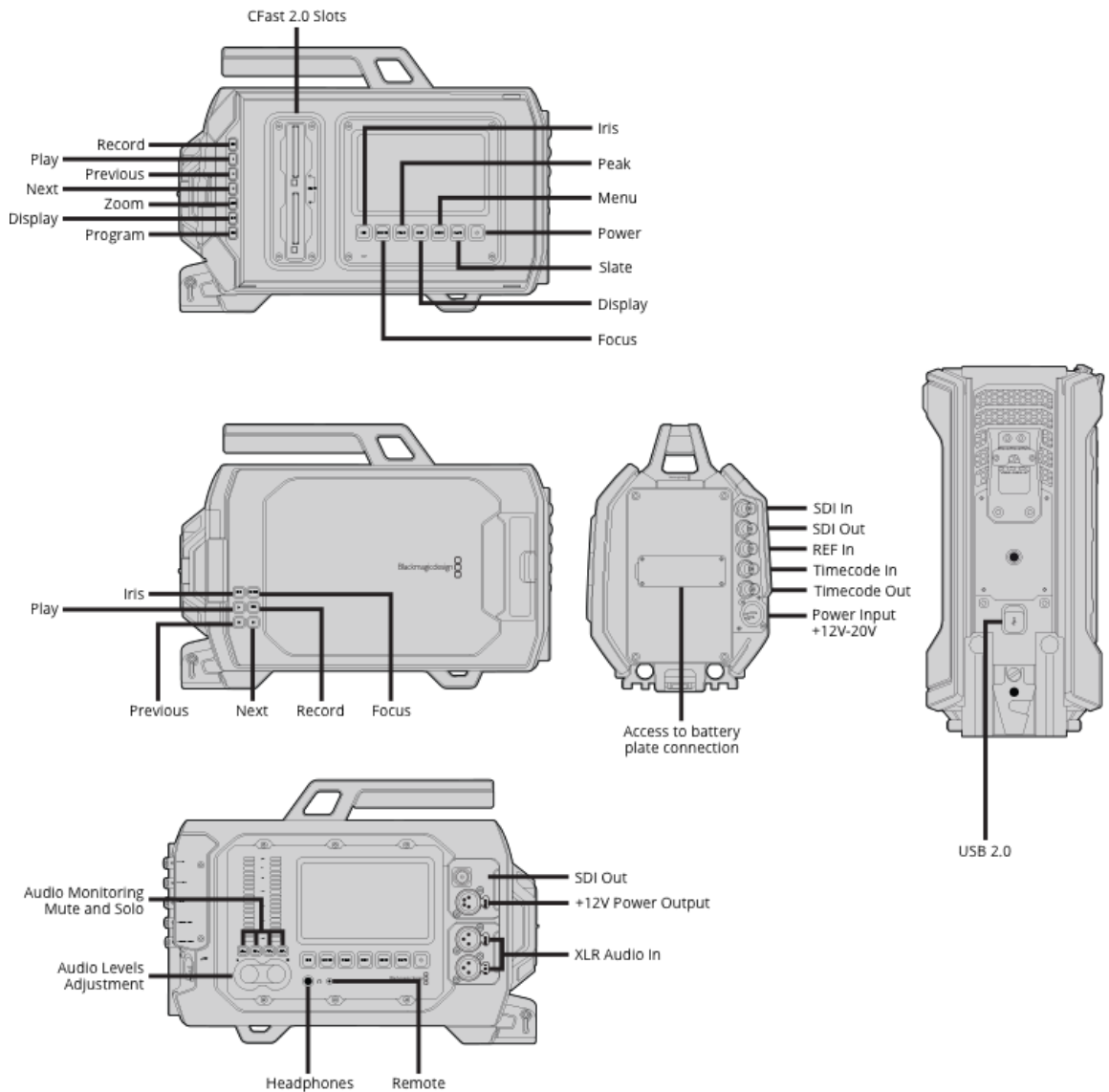
**Analog Audio Input**  
2 x XLR analog switchable between mic and line levels. Phantom power support.

**Analog Audio Output**  
1/4" jack output for headphone monitoring

**SDI Audio Output**  
2 channel

**Remote Control**  
1 x 2.5mm LANC for Rec Start/Stop, Iris Control and Focus.

**Computer Interface**  
USB 2.0 Mini-B port for software updates.



## Standards

**SDI Compliance**  
SMPTE 292M

**SDI Audio Sampling**  
48 kHz and 24-bit

## Software

**Software Included**  
DaVinci Resolve grading software including Resolve USB dongle for Mac OS X and Windows.

Blackmagic Media Express software.  
DiskSpeed Test.

## Operating Systems



Mac OS X 10.8 Mountain Lion or later.



Windows 7 or later.

## Power Requirements

**External Power Input**  
1 x 4-pin XLR port for external power or battery use.

**External Power Output**  
1 x 12V output using 4-pin XLR for powering external accessories such as EVF.

**Power**  
Rear camera mount compatible with industry standard V-mount or Gold Mount battery plates.

## Accessories

**Optional Accessories**  
Adapter plate with 15mm Light Weight Support and Rosettes.

## 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

Blackmagic URSA  
Active EF Mount turret  
Turret Dust Cap  
12V AC Adapter  
Tripod mounting plate adapter  
DaVinci Resolve

## Warranty

**Product Warranty**  
12 Month Limited Manufacturer's Warranty.

# Blackmagic URSA PL

## Technical Specifications

## Description

URSA camera body with the PL lens mount and large 4K Super 35 image sensor with global shutter and the film industry PL lens mount installed. URSA PL is ideal when you need to use feature film industry PL mount lenses for the most cinematic optics available!

## Camera Features

**Effective Sensor Size**  
21.12mm x 11.88mm (Super 35)

**Effective Resolution**  
3840 x 2160

**Shooting Resolutions**  
3840 x 2160, 1920 x 1080

**Frame Rates**  
3840 x 2160p23.98, 3840 x 2160p24, 3840 x 2160p25, 3840 x 2160p29.97, 3840 x 2160p30, 3840 x 2160p50, 3840 x 2160p60, 1920 x 1080p23.98, 1920 x 1080p24, 1920 x 1080p25, 1920 x 1080p29.97, 1920 x 1080p30, 1920 x 1080p50, 1920 x 1080p59.94, 1920 x 1080p60, 1920 x 1080i50, 1920 x 1080i59.94 and 1920 x 1080i60

**Sensor frame rate support**  
Up to 60 fps

**Dynamic Range**  
12 stops

**Focus**  
Manual

**Iris Control**  
Manual

**Lens Mount**  
PL Mount

**Screen Dimensions**  
1 x 10.1" – 1920 x 1200  
2 x 5" – 800 x 480

**Screen Type**  
10.1" – TFT-LCD  
5" – Integrated LCD capacitive touchscreen

**Metadata Support**  
Automatic camera data and user data such as shot number, filenames and keywords.

**Controls**  
Touch screen menus on 5" screen. Push button controls for navigating menus.

**Microphone**  
Integrated mono microphone

**Speaker**  
Integrated mono speaker

**Mounting Options**  
Multiple 1/4"-20 UNC thread mounting on top of camera and on handle bar. Rosette on bottom. Integrated rods mounts compatible with 15mm Light Weight Support standard.

## Storage Features

**Storage Type**  
CFast 2.0

**Storage Rates**  
Approx 880 Mbps using Apple ProRes 422 (HQ) at 3840 x 2160. Approx 220 Mbps using Apple ProRes 422 (HQ) at 1920 x 1080.

**Compressed Recording Formats**  
Lossless compressed CinemaDNG RAW with film dynamic range at 3840 x 2160. Apple ProRes 422 (HQ) at 3840 x 2160 and 1920 x 1080 with either film or video dynamic range.

## Connections

**SDI Video Output**  
1 x 12G-SDI 10-bit 4:2:2. 1 x 3G-SDI down converted for external monitoring

**SDI Video Input**  
1 x 12G-SDI

**Ref Input**  
1 x Reference Input

**Timecode Input**  
1 x Timecode Input

**Timecode Output**  
1 x Timecode Output

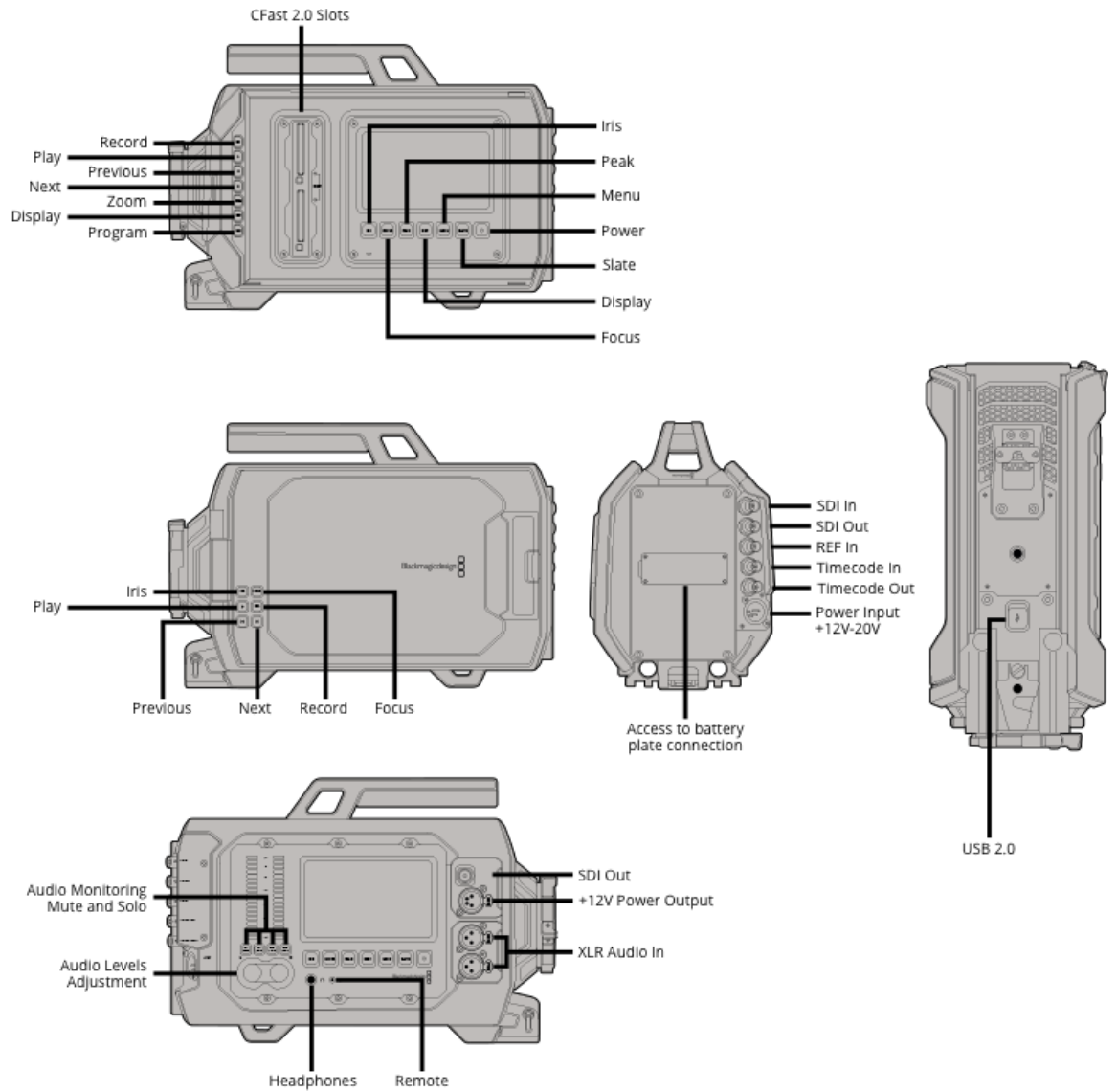
**Analog Audio Input**  
2 x XLR analog switchable between mic and line levels. Phantom power support.

**Analog Audio Output**  
1/4" jack output for headphone monitoring

**SDI Audio Output**  
2 channel

**Remote Control**  
1 x 2.5mm LANC for Rec Start/Stop, Iris Control and Focus.

**Computer Interface**  
USB 2.0 Mini-B port for software updates.



**Standards**

**SDI Compliance**  
SMPTE 292M

**SDI Audio Sampling**  
48 kHz and 24-bit

**Software**

**Software Included**  
DaVinci Resolve grading software including Resolve USB dongle for Mac OS X and Windows.  
Blackmagic Media Express software.  
DiskSpeed Test.

**Operating Systems**



Mac OS X 10.8 Mountain Lion or later.



Windows 7 or later.

**Power Requirements**

**External Power Input**  
1 x 4-pin XLR port for external power or battery use.

**External Power Output**  
1 x 12V output using 4-pin XLR for powering external accessories such as EVF.

**Power**  
Rear camera mount compatible with industry standard V-mount or Gold Mount battery plates.

## Accessories

### Optional Accessories

Adapter plate with 15mm Light Weight Support and Rosettes.

## 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

Blackmagic URSA  
PL Mount Turret  
12V AC Adapter  
Tripod mounting plate adapter  
DaVinci Resolve

## Warranty

**Product Warranty**  
12 Month Limited Manufacturer's Warranty.

# Blackmagic URSA Broadcast

## Technical Specifications

## Description

Due late 2014, URSA Broadcast features a sensor optimized for Broadcast Video in Ultra HD, combined with a broadcast B4 lens mount and broadcast lens control connection plus built in ND filter wheel installed onto the URSA camera body.

## Camera Features

**Effective Sensor Size**  
13.056mm x 7.344mm

**Effective Resolution**  
3840 x 2160

**Shooting Resolutions**  
3840 x 2160, 1920 x 1080

**Frame Rates**  
3840 x 2160p23.98, 3840 x 2160p24, 3840 x 2160p25, 3840 x 2160p29.97, 3840 x 2160p30, 3840 x 2160p50, 3840 x 2160p60, 1920

**Focus**  
Focus button turns on peaking. Auto focus available on active lens mount.

**Iris Control**  
Iris button automatically adjusts the lens iris settings so no pixel is clipped in film mode. Scene average auto exposure in video mode.

**Lens Mount**  
Video (B4) Mount

**Screen Dimensions**

**Metadata Support**  
Automatic camera data and user data such as shot number, filenames and keywords.

**Controls**  
Touch screen menus on 5" screen. Push button controls for navigating menus.

**Microphone**  
Integrated mono microphone

**Speaker**

x 1080p23.98, 1920 x 1080p24, 1920 x 1080p25, 1920 x 1080p29.97, 1920 x 1080p30, 1920 x 1080p50, 1920 x 1080p59.94, 1920 x 1080p60, 1920 x 1080i50, 1920 x 1080i59.94 and 1920 x 1080i60

1 x 10.1" – 1920 x 1200  
2 x 5" – 800 x 480

**Screen Type**  
10.1" – TFT-LCD  
5" – Integrated LCD capacitive touchscreen

Integrated mono speaker

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**Mounting Options**

Multiple 1/4"-20 UNC thread mounting on top of camera and on handle bar. Rosette on bottom. Integrated rods mounts compatible with 15mm Light Weight Support standard.

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**Storage Features**

**Storage Type**  
CFast 2.0

**Storage Rates**  
Approx 880 Mbps using Apple ProRes 422 (HQ) at 3840 x 2160.  
Approx 220 Mbps using Apple ProRes 422 (HQ) at 1920 x 1080.

**Compressed Recording Formats**

Lossless compressed CinemaDNG RAW with film dynamic range at 3840 x 2160. Apple ProRes 422 (HQ) at 3840 x 2160 and 1920 x 1080 with either film or video dynamic range.

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**Connections**

**SDI Video Output**  
1 x 12G-SDI 10-bit 4:2:2. 1 x 3G-SDI down converted for external monitoring

**SDI Video Input**  
1 x 12G-SDI

**Ref Input**  
1 x Reference Input

**Timecode Input**  
1 x Timecode Input

**Timecode Output**  
1 x Timecode Output

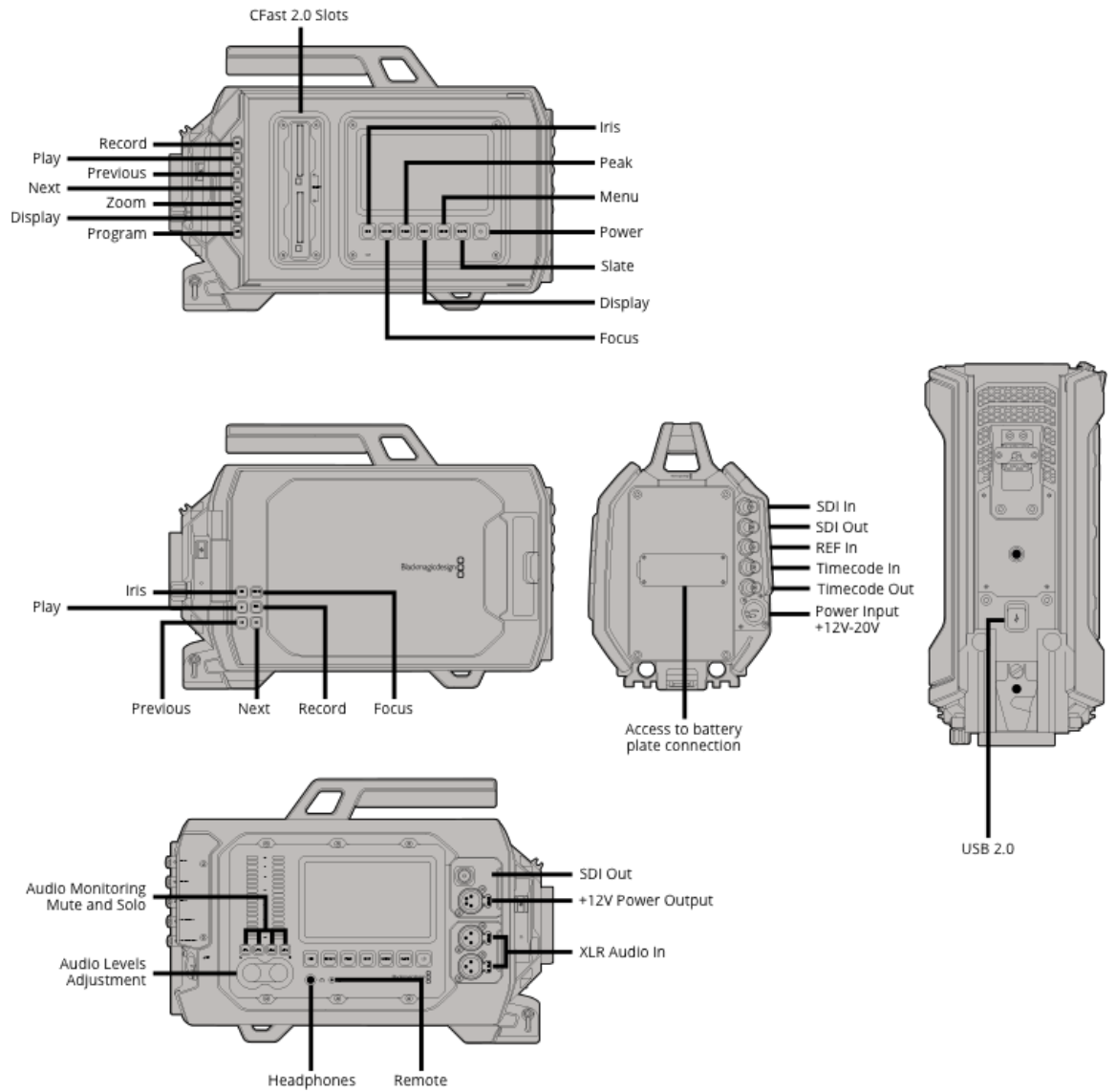
**Analog Audio Input**  
2 x XLR analog switchable between mic and line levels. Phantom power support.

**Analog Audio Output**  
1/4" jack output for headphone monitoring

**SDI Audio Output**  
2 channel

**Remote Control**  
1 x 2.5mm LANC for Rec Start/Stop, Iris Control and Focus.

**Computer Interface**  
USB 2.0 Mini-B port for software updates.



**Standards**

**SDI Compliance**  
SMPTE 292M

**SDI Audio Sampling**  
48 kHz and 24-bit

**Software**

**Software Included**  
DaVinci Resolve grading software including Resolve USB dongle for Mac OS X and Windows.  
Blackmagic Media Express software.  
DiskSpeed Test.

**Operating Systems**



Mac OS X 10.8 Mountain Lion or later.



Windows 7 or later.

**Power Requirements**

**External Power Input**  
1 x 4-pin XLR port for external power or battery use.

**External Power Output**  
1 x 12V output using 4-pin XLR for powering external accessories such as EVF.

**Power**  
Rear camera mount compatible with industry standard V-mount or Gold Mount battery plates.

## Accessories

### Optional Accessories

Adapter plate with 15mm Light Weight Support and Rosettes.

## 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

Blackmagic URSA  
Turret Dust Cap  
12V AC Adapter  
Tripod mounting plate adapter  
DaVinci Resolve

## Warranty

**Product Warranty**  
12 Month Limited Manufacturer's Warranty.

# Blackmagic URSA HDMI

## Technical Specifications

## Description

URSA HDMI includes no sensor because it features an HDMI 4K input and mount plate for connecting any camera such as DSLR cameras! Get better quality ProRes recording, large 10 inch fold out monitoring, high quality audio recorder and timecode than is available on video cameras or DSLR cameras!

## Camera Features

**Effective Sensor Size**  
13.056mm x 7.344mm

**Recording Resolution**  
3840 x 2160, 1920 x 1080

**Frame Rates**  
External device dependent

**Lens Mount**  
Video (B4) Mount

**Screen Dimensions**  
1 x 10.1" – 1920 x 1200  
2 x 5" – 800 x 480

**Screen Type**  
10.1" – TFT-LCD  
5" – Integrated LCD capacitive touchscreen

**Metadata Support**  
Automatic camera data and user data such as shot number, filenames and keywords.

**Microphone**  
Integrated mono microphone

**Speaker**  
Integrated mono speaker

**Mounting Options**  
Multiple 1/4"-20 UNC thread mounting on top of camera and on handle bar. Rosette on bottom. Integrated rods mounts compatible with 15mm Light Weight Support standard.

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### Controls

Touch screen menus on 5" screen.  
Push button controls for navigating menus.

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## Storage Features

### Storage Type

CFast 2.0

### Storage Rates

Approx 880 Mbps using Apple ProRes 422 (HQ) at 3840 x 2160.  
Approx 220 Mbps using Apple ProRes 422 (HQ) at 1920 x 1080.

### Compressed Recording Formats

Lossless compressed CinemaDNG  
RAW with film dynamic range at 3840 x 2160. Apple ProRes 422 (HQ) at 3840 x 2160 and 1920 x 1080 with either film or video dynamic range.

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## Connections

### SDI Video Output

1 x 12G-SDI 10-bit 4:2:2. 1 x 3G-SDI down converted for external monitoring

### SDI Video Input

1 x 12G-SDI

### Ref Input

1 x Reference Input

### Timecode Input

1 x Timecode Input

### Timecode Output

1 x Timecode Output

### Analog Audio Input

2 x XLR analog switchable between mic and line levels. Phantom power support.

### Analog Audio Output

1/4" jack output for headphone monitoring

### SDI Audio Output

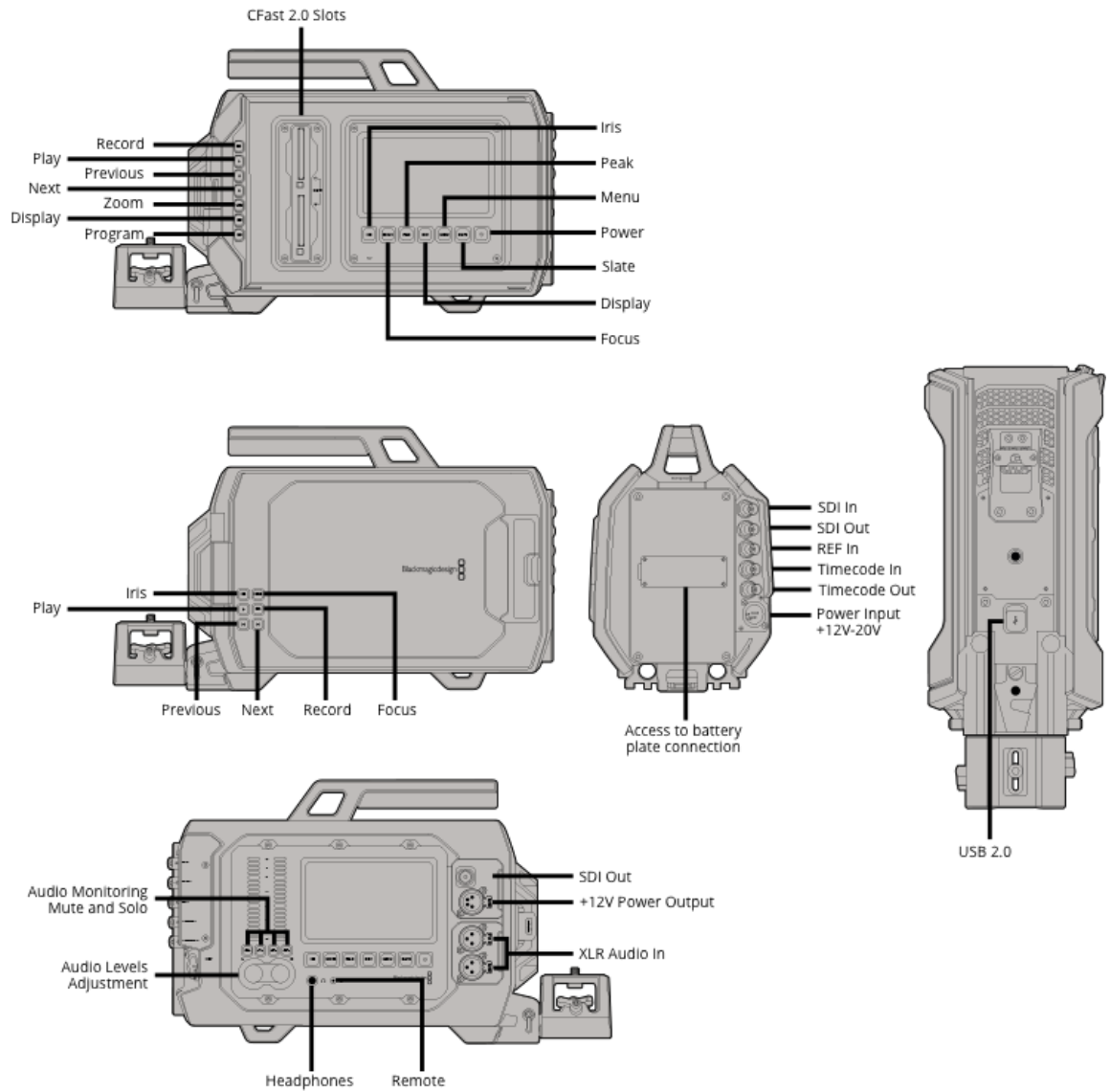
2 channel

### Remote Control

1 x 2.5mm LANC for Rec Start/Stop, Iris Control and Focus.

### Computer Interface

USB 2.0 Mini-B port for software updates.



**Standards**

**SDI Compliance**  
SMPTE 292M

**SDI Audio Sampling**  
48 kHz and 24-bit

**Software**

**Software Included**  
DaVinci Resolve grading software including Resolve USB dongle for Mac OS X and Windows.  
Blackmagic Media Express software.  
DiskSpeed Test.

**Operating Systems**



Mac OS X 10.8 Mountain Lion or later.



Windows 7 or later.

**Power Requirements**

**External Power Input**  
1 x 4-pin XLR port for external power or battery use.

**External Power Output**  
1 x 12V output using 4-pin XLR for powering external accessories such as EVF.

**Power**  
Rear camera mount compatible with industry standard V-mount or Gold Mount battery plates.

## Accessories

### Optional Accessories

Adapter plate with 15mm Light Weight Support and Rosettes.

## 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

Blackmagic URSA  
Turret Dust Cap  
12V AC Adapter  
Tripod mounting plate adapter  
DaVinci Resolve

## Warranty

**Product Warranty**  
12 Month Limited Manufacturer's Warranty.

