



Blackmagic Design URSA Broadcast G2

ProdCode: BMDCINEURSAMWC

Professional broadcast camera for HD, 4K & 6K

[\[Download Images\]](#) (.zip file)

Features

- Professional broadcast camera for HD, 4K & 6K
- Camera designed for both traditional and online broadcasters
- The 3 cameras in 1 design allows it to work as a 4K production camera, a 4K studio camera or a 6K digital film camera
- Exceptional Low Light Performance
- Built In Optical ND Filters
- Dual Media Slots for Non-Stop Recording
- Built in LCD with Touch Controls
- Load Custom 3D LUTs to Recreate Film Looks
- Professional Audio Connections and Built In Microphones
- Record to common SD cards, UHS-II cards, CFast 2.0 cards or external USB disks, using common file formats such as H.265, ProRes and Blackmagic RAW
- B4 (installed) and EF lens mount included, able to change to PL, EF and F Lens Mounts
- Compatible with Industry Standard Batteries
- Includes DaVinci Resolve Studio

The new Blackmagic URSA Broadcast G2 is an incredibly powerful camera designed for both traditional and online broadcasters. The 3 cameras in 1 design allows it to work as a 4K production camera, a 4K studio camera or a 6K digital film camera. It's a perfect solution for broadcasters because it uses the lenses and batteries you already own. You can record to common SD cards, UHS-II cards, CFast 2.0 cards or external USB disks, using common file formats such as H.265, ProRes and Blackmagic RAW. This means it's compatible with all video software and broadcast media management systems. You can even change the lens mount. No other broadcast camera is so flexible.

Three Cameras In One

Broadcast Production Camera

The perfect solution for broadcasters, URSA Broadcast G2 includes ENG camera controls positioned around the camera so you can locate them by feel. It also features a low light sensor so you get amazing images using natural light. That's the perfect combination for broadcast news and programming.

Live Studio Camera

URSA Broadcast includes an advanced YRGB colour corrector built in and full remote camera control. You can use B4 ENG lenses, large studio box lenses, or even change the lens mount and use any lens. Plus the optional Blackmagic focus and zoom demands let you control the lens from the tripod handles.

Digital Cinema Camera

URSA Broadcast G2 includes an advanced 6K digital film sensor, and you can change the lens mount. Use a PL mount for digital film lenses or EF for photo lenses. Plus the high dynamic range, great low light performance and Blackmagic RAW means you get a true "Hollywood" quality digital film camera.

Get Digital Film Quality for Broadcast

The large 6K sensor combined with Blackmagic generation 5 colour science gives you the same imaging technology used in digital film cameras. This means broadcasters can now use digital cinema quality in broadcast. The 6K sensor features a resolution of 6144 x 3456 so it's flexible enough for broadcast and digital film work. When using B4 lenses, you get a 4K window of the sensor for Ultra HD broadcast use. Then if you change to a PL or EF lens mount, you can use the full 6K resolution of the sensor for digital film. With 13 stops of dynamic range, you get darker blacks and brighter whites, so it's perfect for colour correction. Using digital film in broadcast

is a revolution in image quality.

Exceptional Low Light Performance

The new URSA Broadcast features incredible low light performance so you can shoot using ambient light or even under moonlight. In advanced cameras, ISO is a measurement of the image sensor's sensitivity to light. The Blackmagic URSA Broadcast G2 features gain from -12dB (100 ISO) up to +36dB (25,600 ISO) so it's optimized to reduce grain and noise in images, while maintaining the full dynamic range of the sensor. The primary native ISO is 400, which is ideal for use under studio lighting. Then the secondary high base ISO of 3200 is perfect when shooting in dimly lit environments. The gain can be set via a camera switch, the LCD menu or remotely using the SDI remote camera control protocol.

Compatible with B4 Broadcast Lenses

The URSA Broadcast G2 features a B4 broadcast lens mount that includes optics specifically designed to match the camera's sensor. The B4 lens mount lets you use modern Ultra HD lenses or lower cost HD lenses. Older HD lenses often feature resolutions well beyond HD, so you get great quality at low cost. B4 lenses are fantastic because they are par-focal, so the image stays in focus as you zoom in and out, so you don't need to constantly chase focus as you shoot. That lets you work much faster. You also get full electronic lens control to adjust focus, iris and zoom using the camera's controls, or remotely. Plus if you want to use alternative lenses, you can change the mount to PL, EF and more.

Built In Optical ND Filters

URSA Broadcast G2 features high quality neutral density (ND) filters that let you quickly reduce the amount of light entering the camera. The 1/4, 1/16th and 1/64th stop filters have been specifically designed to match the image sensor and colour science of URSA Broadcast G2, providing you with additional latitude and better colourimetry. This lets you use different combinations of aperture and shutter angle, in a wider range of situations. The IR filters have been designed to evenly filter both optical and IR wavelengths, eliminating IR contamination. Plus the filter status on the LCD can be displayed as a fraction, number, or stop reduction.

Use Common Media and File Formats

URSA Broadcast is designed to work with standard file formats that are used by all broadcast systems and editing software. You can record in ProRes 422 HQ and ProRes 422 into QuickTime files. The new Blackmagic URSA Broadcast G2 model can even record into H.265 for incredibly small files at 60:1 to 285:1 compression

ratios, in 10-bit broadcast quality. Plus you can record to Blackmagic RAW files, a revolutionary new format designed to capture and preserve the quality of the sensor data from the camera. That means you get the perfect range of file formats designed for all types of workflows.

Dual Media Slots for Non-Stop Recording

With dual CFast 2.0 recorders and dual SD/UHS-II card recorders, you can choose the media that's best for you. Both types of media are standard, inexpensive and readily available at computer and camera stores. Plus with dual media slots, URSA Broadcast gives you non stop recording. When a card is full, recording automatically continues onto the next card so you can swap a full card while recording continues. You get enough speed to record high quality ProRes and H.265 video file formats, even when working in Ultra HD at high frame rates. That means URSA Broadcast G2 is easy to integrate into your existing broadcast systems. You can even record 12-bit Blackmagic RAW cinema files.

USB-C for Recording Direct to External Media Disks

The Blackmagic URSA Broadcast G2 features a high speed USB-C expansion port on the rear of the camera that allows you to record to external disks or connect to a wide range of accessories. If you plug in a large and low cost external USB flash disk, you can record ProRes, H.265 or even high quality 12-bit Blackmagic RAW files for later editing and colour correction. That means you can just move the disk to a computer to work, and you don't need to waste time with file copying. Plus the USB port will power the disk that's plugged in. You can even plug in optional focus and zoom demands to allow full lens control.

Strong and Lightweight Magnesium Design

URSA Broadcast G2 features a super strong, lightweight magnesium alloy body that's perfectly balanced and designed to be comfortable to use all day. It features familiar externally mounted switches and controls that give you direct access to the most important camera settings. The controls are laid out logically, making them easy to locate by feel, so you can adjust settings without having to look at the buttons. You also get a foldout touchscreen for monitoring, viewing camera status and changing settings using on screen menus. URSA Broadcast G2 also includes standard 12G-SDI connections, XLR audio inputs, USB-C and an industry standard 4 pin XLR broadcast 12V DC connection.

Built in LCD with Touch Controls

With a built in LCD that folds out, you can both monitor and control the camera. While

URSA Broadcast G2 features lots of physical buttons and knobs, using the LCD, you also get on screen status and touch screen controls. The built in touchscreen also includes a heads up display with the most important shooting information, as well as menus for all camera settings, LUTs and custom presets. Plus behind the LCD there are extra buttons, as well as knobs for audio levels. There's even programmable function buttons that can have functions assigned to them, such as zebra, false colour, focus peaking, LUTs and more. Plus you can change the function assigned to each button in the on screen menus.

External Status Display

The status display is a high visibility LCD screen that's designed to be easily seen, even in bright light. The status display shows record timecode, locked timecode and reference timecode, along with the current shooting frame rate, shutter angle, aperture, white balance, gain and iris. It also features a battery indicator, card recording status and audio meters for monitoring levels. The screen's backlight can be turned on when you are shooting in dimly lit locations, and off when you are shooting outdoors and in bright light to increase contrast, making it easy to read under any condition.

Program Video Monitoring

If you're doing live production, sometimes you need to monitor program video back from the switcher. Simply press the camera's PGM button and the viewfinder will switch from the camera display to the program return feed from the switcher. A built in speaker also lets you monitor the switcher audio as well. Program return is a fantastic feature as sometimes on large live shows, camera operators can be left waiting a long time for their camera to be used, so program return lets them watch the show while they wait. This means that even if the camera operator is a large distance away from the switcher, they can still keep up with what is happening and remain alert.

Load Custom 3D LUTs to Recreate Film Looks

Digital film cameras shoot logarithmic colourspace to preserve the dynamic range, which is great for later post production. However, when these files are viewed on a monitor they can look flat and washed out. 3D LUTs solve this problem as they allow you to apply a "look" to the monitor so you get an idea of how the finished images will look when editing. LUTs can be applied temporarily for monitoring only, or they can be recorded into the Blackmagic RAW files for use in post production. The URSA Broadcast G2 works with industry standard 17 and 33 point 3D LUT files, or you can work with the built in LUTs such as Extended Video, Film to Video, Film to Rec.2020 and more.

Standard Television Industry Connections

Blackmagic URSA Broadcast G2 features the latest technology and connections such as 12G-SDI. This includes 12G-SDI connections for both video output and return program feed input. The 12G-SDI connections are multi rate and switch between all HD and Ultra HD formats up to 2160p60. Other connections include a headphone connection, USB-C, balanced XLR audio with phantom power, and timecode/reference input. There's also a front mounted 12 pin Hirose connector for broadcast lens control which can also power the lens. Plus for connecting a viewfinder or on set monitor there's even an HD-SDI monitoring output and a broadcast style 4 pin XLR 12V DC power output.

Supports All Broadcast Frame Rates

Whether you're shooting a sporting event or a breaking news story, Blackmagic URSA Broadcast G2 can shoot super smooth, crystal clear slow motion video. To shoot slow motion video, URSA Broadcast supports the higher broadcast frame rates of 60 frames per second, but it can also record this high frame rate into a lower frame rate file, for smooth slow motion shooting. You can set up your preferred high speed frame rate using the camera's on screen menus, then switch between standard sync speed and off speed frame rates using the HFR button on the side of the camera. That means you can have a higher frame rate setup and ready to go, so its instantly available when the action gets exciting.

Professional Audio Connections and Built In Microphones

URSA Broadcast G2 has a high quality microphone and professional audio recorder built in so you don't have to carry any extra sound equipment. That means you can use the built in stereo microphone or you can connect external microphones. The XLR connections have 48V phantom power so you can plug in everything from shotgun to wireless clip on mics. You can also select to link audio inputs on the camera so you can plug in lapel microphones that often only have a single mono connection, if you want to record the mic onto both channels of the recorded file. URSA Broadcast G2 also features knobs for adjusting levels and onscreen meters so you can trim audio levels even when shoulder mounted.

Get Studio Camera Control via SDI

All Blackmagic Design ATEM switchers can control cameras via a protocol embedded into the URSA Broadcast G2's SDI video connections. Setup is easy because all ATEM switchers broadcast control commands from the switcher's SDI program output to the camera via the SDI program input. The switcher can perform colour correction, tally and lens control and these are sent to all cameras. All you need to do

is select the correct camera number and it all works. This means someone can manage the image colour and gain so the camera operator is not distracted trying to adjust their camera, and they are then free to focus on framing the shots.

Work in Both HD or Ultra HD

The Blackmagic URSA Broadcast G2 is not just a great Ultra HD camera, but it's also an amazing HD camera too. The high resolution sensor and generation 5 colour science creates amazing images with high dynamic range and wide colour fidelity. But when you need to do HD work, the camera will scale the image sensor down to 1080HD video standards. This helps you get stories on air fast, in HD or Ultra HD video standards, anywhere in the world. Plus when working in HD, the high resolution sensor allows sub pixel image processing for superior anti-aliasing and sharp images. Blackmagic URSA Broadcast G2 is a future proof camera that's perfect for both HD and Ultra HD production.

Change to PL, EF and F Lens Mounts

URSA Broadcast G2 features an interchangeable lens mount so you can easily swap the included B4 lens mount for an EF, PL or even F mount. URSA Broadcast G2 comes with a B4 mount already installed, plus a spare EF mount is included. That means if you're starting out you can change the mount and use low cost photographic lenses. Photographic lenses are incredible quality because they're designed for high resolution photography. You can also purchase optional PL and F mounts separately. If you're shooting for digital film, the PL mount is best as it's the most common lens mount for cinema lenses. With URSA Broadcast G2, you get a single camera that works with virtually all modern lenses.

Latest Generation 5 Colour Science

Featuring the same generation 5 colour science as the high end URSA Mini Pro 12K, the new URSA Broadcast G2 delivers an even greater advancement in image quality with stunning, accurate skin tones and faithful colour in every shot. You get a new dynamic 12-bit gamma curve designed to capture more colour data in the highlights and shadows, for better looking images. The colour science also handles some of the complex Blackmagic RAW image processing, so colour and dynamic range data from the sensor is preserved via metadata which you can use in post production. That means you get images that have a natural, film like response to colour adjustments in post with DaVinci Resolve Studio.

Incredible Blackmagic RAW Quality

Blackmagic RAW is a revolutionary new format designed to capture and preserve the

quality of the sensor data from your camera. Common video files have a lot of video processing, so you can lose some of the original sensor detail. Blackmagic RAW eliminates this problem so you get stunning images with incredible detail and rich colour throughout the whole post production pipeline. Blackmagic RAW also saves camera settings as metadata so you can change ISO, white balance and exposure later in DaVinci Resolve. Plus the files are small and fast, so editing responsiveness is incredible. Only Blackmagic RAW gives you the highest quality, smallest files and fastest performance.

Powered by Blackmagic OS

With the advanced Blackmagic OS, you get an intuitive and user friendly camera operating system based on the latest technology. Blackmagic OS is a true modern operating system where all camera features run independently for smoother control, plus URSA Broadcast G2 powers on virtually instantly. It features the same controls and menus as other Blackmagic Design cameras so you can move between cameras on set easily. The interface uses simple tap and swipe gestures to adjust settings, add metadata and view recording status. You also get full control over advanced camera features such as on screen focus and exposure tools, 3D LUTs, HDR, metadata entry, timecode, Blackmagic RAW settings and more.

Built in Timecode Generator

All models of Blackmagic URSA Broadcast G2 have a built in time of day timecode generator, so you can sync all the cameras and then do multi-cam editing later because all the recordings will have the same timecode. Simply plug in an external timecode generator to the BNC timecode input and the camera will automatically detect timecode and lock the internal generator. Now each camera can start and stop recording and the shots from all cameras will have matched timecode. Imagine shooting a music festival with multiple cameras. Then the DaVinci Resolve sync bin can be used to automatically sync the recordings and display them in a multiview for easy editing.

Focus and Zoom Demands

The optional zoom and focus demands allow you to use photography lenses for live production. The focus and zoom demands have USB-C connections so they control the lens via the camera's electronic lens control. Each zoom and focus demand has 2 USB-C ports, so you can daisy chain them then connect to the camera with a single USB connection. The design has an incredibly precise feel so you get very fine lens control, and you can frame and adjust the lens without taking your hands off the tripod handles. The buttons can be customized so you can assign different camera functions to them. Plus, hardware is included for mounting the focus and zoom demands onto

tripod handles.

Add Viewfinders, SMPTE Fiber and Lens Mounts

There's a wide range of accessories that are specifically designed to work perfectly with URSA Broadcast G2. However, a shoulder mount kit, V-Lock battery plate and top handle are included so you don't need to purchase anything extra. Plus you get a spare EF lens mount if you don't own a B4 lens and would like to start out using a photography lens. You can add the optional Blackmagic URSA Viewfinder, or for live production you can add a Blackmagic URSA Studio Viewfinder. There's also an optional fiber converter that can power the camera from 2 km away via the single SMPTE fiber. For long duration recording, URSA Mini Recorder gives you the option to record to external SSDs.

Record to SSDs and U.2 Media

The optional Blackmagic URSA Mini Recorder lets you record files onto large 2.5 inch SSDs, as well as the latest U.2 NVMe Enterprise SSDs. SSDs such as the latest 7mm U.2 NVMe disks are super fast, delivering data transfer speeds of up to 900 MB/s. This blazing fast performance allows you longer recording times for full resolution 4K and 6K 12-bit Blackmagic RAW files in the highest quality Q0 encoding. The unique design of the Blackmagic URSA Mini Recorder means it attaches directly to the back of your URSA Broadcast G2 between the camera and the battery. It's controlled via the USB-C so you don't have to worry about manually starting or stopping the SSD recorder.

Localized in 13 Popular Languages

All Blackmagic Design cameras are designed to be used worldwide so they support 13 popular languages. When setting up your camera, you can choose to work in English, German, French, Spanish, Portuguese, Italian, Russian, Polish, Ukrainian, Turkish, Chinese, Japanese or Korean. It's easy to switch to another language simply by going into the menu settings. When switching between languages, all the on screen overlays, heads up display, and setup menus will be displayed in the selected language and you can change languages any time you like.

Wireless Bluetooth Camera Remote Control

If you're positioning the camera on the end of a boom, or in another hard to reach location, you can get full control via Bluetooth from up to 30 feet away. You can download the Blackmagic Camera Control app for your iPad or use third party apps such as Bluetooth+ or tRigger on your iOS and Android devices. There's even a free developer SDK with sample code available from the Blackmagic Design developer

website, so you can create your own remote camera control and digital slate solutions. Imagine building an app that can jam sync timecode and trigger all cameras to record at the same time. The possibilities are endless.

Compatible with Industry Standard Batteries

All URSA cameras support a wide range of battery plates from manufacturers such as IDX, Blueshape, Anton Bauer and more. A V-Lock battery plate is installed on the camera, or you can change to an optional Blackmagic URSA Gold Battery Plate. All Blackmagic battery plates are designed to mount directly onto the camera. URSA Broadcast G2 includes a 4-pin XLR power connector that supports 12V to 18V for connecting external power supplies and battery packs. The standard power connector also means you can use the camera with your existing power supplies and batteries. For live production, the optional fiber converter can power the camera from up to 2 km away via a single SMPTE fiber cable.

Includes DaVinci Resolve Studio

Get Professional Editing, Colour Correction, Audio Post and VFX

URSA Broadcast G2 includes a full version of DaVinci Resolve Studio, which is the same software used in Hollywood for creating high end feature films, episodic television shows, commercials and more. DaVinci Resolve features the new cut page with intelligent editing tools and innovative new features designed to help you quickly find the footage you want, edit it together and output it fast. In addition to the new cut page, you also get DaVinci's legendary professional editing, advanced colour correction, audio post and visual effects tools, all in a single software application. Now you can use the the same high end software that professional editors and colourists use.

In the box:

- Blackmagic URSA Broadcast G2
- 4K B4 lens mount installed
- B4 turret dust cap
- EF Mount with dust cap
- VLock Battery Plate installed
- URSA 12V 100W power supply
- URSA Mini Shoulder Pad
- URSA Mini top handle & rubber stopper
- Viewfinder mounting plate
- 2 x 1/4 inch baseplate screws
- 2 x long 1/4 inch top handle screws
- 2 x short 1/4 inch top handle screws

- 8 x EF Mount screws
- 4 x VLock plate spare screws
- Welcome wallet with QR code for camera software download
- DaVinci Resolve Studio wallet
- DaVinci Resolve Studio activation key

