Blackmagic Design Micro Studio Camera 4K G2

ProdCode: BMDCINSTUHDMRG2

Broadcast quality live production camera in a tiny body

[Download Images] (.zip file)

Features

- Broadcast quality live production camera in a tiny body
- Four Thirds sensor
- 13 stops of dynamic range
- Incredible low light performance
- Produces stunning Ultra HD images in all lighting conditions
- 12G-SDI Micro BNC connectors support 10-bit uncompressed video up to 2160p60 and 2 channel audio on the output
- Record Blackmagic RAW to external USB-C drives

Blackmagic Micro Studio Camera 4K G2 is the perfect solution for placing cameras on set when you don't have space for regular sized cameras. It includes the popular MFT lens mount, very low light 4K image sensor and cinematic colour science. So it's small, but has the features of a full sized studio camera. You also get 12G-SDI for HD and Ultra HD operation up to 2160p60. It's also possible to control the built in colour corrector and lens using the SDI and HDMI connections. It can even record Blackmagic RAW to USB disks. Plus Blackmagic Micro Studio Camera 4K goes well beyond broadcast quality with log gamma, allowing you to create cinematic colour corrected looks, all in camera.

Designed for Live Production

The small size of the Micro Studio Camera makes it virtually invisible, so you can place it just about anywhere on set. You can have more camera angles than ever before for your live production to create a more interesting program. Its professional broadcast connections make it perfect for any kind of work such as television production, broadcast news, sports, education, conference centers and churches. It's now easy to hide lots of cameras on stage for the most incredible shorts. While Blackmagic Micro Studio Camera is designed for live production, it can also be used with editing software. That’s because it can record Blackmagic RAW to USB disks for later editing and colour correction.

Revolutionary Studio Camera Design

Large broadcasters use expensive studio cameras that are extremely large, so they’re not very flexible. The distinctive Blackmagic Micro Studio Camera has all the benefits of a large studio camera in a tiny rugged body you can put virtually anywhere. It features a super tough magnesium alloy core in a body that’s not much larger than the lens mount itself. You can use affordable, high performance MFT lenses or add adapters to work with broadcast lenses. The camera is designed for live production so its HDMI and SDI uses the same camera control protocol as ATEM switchers. Plus the buttons on the front of the camera give you quick access to the settings menu and for triggering recording.

Exceptional Low Light Performance

In advanced cameras, ISO is a measurement of the image sensor’s sensitivity to light. This means the higher the ISO the more gain can be added so it’s possible to shoot in natural light, or even at night. The Blackmagic Micro Studio Camera 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 from the camera HDMI menu, or remotely from a switcher using the SDI/HDMI remote camera control.

Get Cinematic Images in Live Production

The amazing 4K sensor combined with Blackmagic generation 5 colour science gives you the same imaging technology used in digital film cameras. That means you can now use cinematic images for live production. Plus, when combined with the built in DaVinci Resolve primary colour corrector you get much better images than simple broadcast cameras. The colour corrector can even be controlled from the switcher. With 13 stops of dynamic range, the camera has darker blacks and brighter whites, perfect for colour correction. The sensor features a resolution of 4096 x 2160 which is great for both HD and Ultra HD work. Plus, Blackmagic Micro Studio Camera supports from 23.98 fps up to 60 fps.

Affordable Photographic Lenses

With the popular MFT lens mount, Blackmagic Micro Studio Camera is compatible with a wide range of affordable photographic lenses from Olympus, Panasonic, Sigma and more. Photographic lenses are incredible quality because they're designed for use in high resolution photography. Plus, the active lens mount lets you adjust the lens remotely. This is ideal as it lets you adjust cameras mounted high up in hard to reach areas without needing to physically access them. Plus, the optional focus and zoom demands let you adjust the lens just like a large studio camera. This means you can set important lens settings such as focus, zoom and iris just like you can with an expensive B4 broadcast lens.

Built-in Tally for On Air Status

Blackmagic Micro Studio Camera 4K features a tally light that illuminates red for on air, green for preview and orange for ISO recording. This makes it easy for talent to present with confidence as they know at a glance which camera is on air. You get full support for the SDI and HDMI tally protocol from switchers such as ATEM Television Studio, ATEM Constellation and ATEM Mini. This means that a director can cut between cameras and the tally information will be sent back to the cameras, lighting up the tally light on the camera whenever it's on air. Because the tally it sent via the SDI and HDMI connections to the camera, complex cabling is eliminated.

Powerful Broadcast Connections

Blackmagic Micro Studio Camera 4K has lots of connections for connecting to broadcast equipment. It has 12G-SDI that supports video, tally and camera return which makes setup much faster. It includes a full size HDMI connector for local video monitoring so you can attach a monitor such as a Blackmagic Video Assist to change settings through the menu overlay or check the position of a remote camera. You also get a USB-C expansion port for recording to external disks or controlling the camera via zoom and focus demands. You can even connect a USB-C to Ethernet adapter to control the camera over a network via REST APIs. Plus there’s a 3.5mm port for connecting a microphone.

Two Ways to Connect

Blackmagic Micro Studio Cameras can be connected in lots of different ways. They feature HDMI so are perfect for HDMI switchers such as ATEM Mini. The HDMI supports video, tally, control and record trigger for a broadcast style workflow using a single HDMI cable. They also have 12G-SDI so you can connect to SDI based switchers such as the ATEM Constellation. There's a 12G-SDI connection for camera video, and one for program return. The program return also includes tally, talkback and remote camera control.

1. **Connect via HDMI**
   Using the HDMI output, you can connect to switchers such as ATEM Mini. Plus the HDMI connection supports sending tally, colour corrector control and record trigger back to the camera from the switcher.
2. **Connect via SDI**
   Use the SDI output and the SDI program return for 2 way talkback between the camera and any SDI ATEM switcher. Tally and control is also sent to the camera via the SDI program return.

Includes Built-in Microphones

Blackmagic Micro Studio Camera includes built in microphones so you get sound included in the design making setup much faster. Each microphone is placed at the optimal position meaning you get better stereo separation than what is possible on a regular video camera. There’s also a 3.5mm audio input so you can connect to video microphones when you need to add larger more directional microphones with wind protection. Whether you’re using the built in microphones or attaching an external mic, the audio is embedded into the SDI and HDMI video outputs so you get perfect audio and video sync.

USB-C for External Disks and Ethernet Control

Blackmagic Micro Studio Camera 4K features a high speed USB-C expansion port

that lets you record to external disks, control the camera via a network or connect a wide range of accessories. Plug in an external USB disk and the camera can record 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 copying files. Or add a USB-C to Ethernet adapter to control your camera over a network via easy to use REST APIs. Plus plug in optional focus and zoom demands to allow full lens control, just like a large studio camera.

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. Some file formats such as H.264 are highly compressed, so add noise and artifacts, causing sensor detail to be lost forever. 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 the camera powers on virtually instantly. The menus are overlaid on the HDMI video output. The interface uses the row of buttons on the front of the camera to access menus and adjust settings so it’s always accessible, even when rigged into tight locations. 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.

Localized in 13 Popular Languages

Blackmagic Micro Studio Camera 4K is designed to be used worldwide so it support 13 popular languages. When setting up your camera, you can choose to work in English, German, French, Spanish, Polish, Portuguese, Italian, Russian, Turkish, Ukrainian, 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.

Battery Back-up Power

The Blackmagic Micro Studio Camera has lots of different power options. It includes a common 12V DC locking power connector so the cable won't be accidentally pulled out. Plus, the camera includes a power supply with 5 different AC socket adapters for different countries. The camera also supports a standard LP-E6 compatible battery so you can add a battery for local power backup during critical live broadcasts. These batteries are readily available around the world and will be kept trickle charged by the camera. You can even use an adapter to connect the camera to V-Lock batteries for true all day power. That’s a great solution when there's no power available where the cameras are placed.

Focus and Zoom Demands

The optional zoom and focus demands can be added when you want to rig the Blackmagic Micro Studio Camera 4K as a bigger custom studio camera. The focus and zoom demands have USB-C connections and make photographic lenses feel like large broadcast lenses. Each zoom and focus demand has 2 USB-C ports, so you can daisy chain them then connect to the cameras USB connection. The design has an incredibly precise feel and 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 for different camera functions. Plus, hardware is included for mounting the focus and zoom demand onto tripod handles.

In the box:

- Blackmagic Micro Studio Camera 4K G2
- Turret dust cap
- External 12V DC power supply with locking connector and international socket adapters for most countries.
- Welcome wallet with QR code for software download