

Blackmagic Studio Camera 4K Plus G2



The Blackmagic Studio Camera 4K Plus G2 has the same features as large studio cameras, miniaturized into a single compact and portable design. Plus with digital film camera dynamic range and color science, the cameras can handle extremely difficult lighting conditions while producing cinematic looking images. The sensor features an ISO up to 25,600 so you can create amazing images even in dimly lit venues. It even works under moonlight! Advanced features include tally, camera control, built in color corrector, Blackmagic RAW recording to USB disks and much more! You can even add a focus and zoom demand for lens control!

Camera Features

Effective Sensor Size

17.78mm x 10mm (Four Thirds)

Lens Mount

Active MFT Mount.

Lens Control

Iris, focus, zoom on supported lenses.

Dynamic Range

13 Stops.

Dual Native ISO

0dB and 18dB gain.

Sensitivity at 0dB Gain

f11 with 2160p59.94.

f12 with 2160p50.

at 2,000 lux with 89.9% reflectance.

Signal to Noise Ratio

63dB for 2160p.

Shooting Resolutions

3840 x 2160 (Ultra HD) up to 60 fps.

Frame Rates

23.98, 24, 25, 29.97, 30, 50, 59.94 and 60 frames per second.

Off-speed frame rates up to 60 fps in Ultra HD.

Focus

Auto focus available using compatible lenses.

Screen Dimensions

7 inch 1920 x 1200

Screen Type

LCD capacitive touchscreen.

Screen Brightness

600 nits

Controls

Touchscreen camera settings and menus with rotary settings dial, program button, F1, F2 and F3 assignable function buttons, brightness contrast and peaking dials.

Mounting Options

2 x 1/4 inch tripod mount.

1 x 3/8 inch tripod mount.

Connections

SDI Video Inputs

1

SDI Video Outputs

1

SDI Rates

1.5G, 3G, 6G, 12G.

HDMI 2.0 Video Outputs

1

Analog Audio Input

1 x 3.5mm Stereo Input. Can also be used for Timecode input.

Analog Audio Output

1 x 3.5mm TRRS mini jack for headphones with mic.

Reference Input

Program SDI Input on camera.

SDI Audio Output

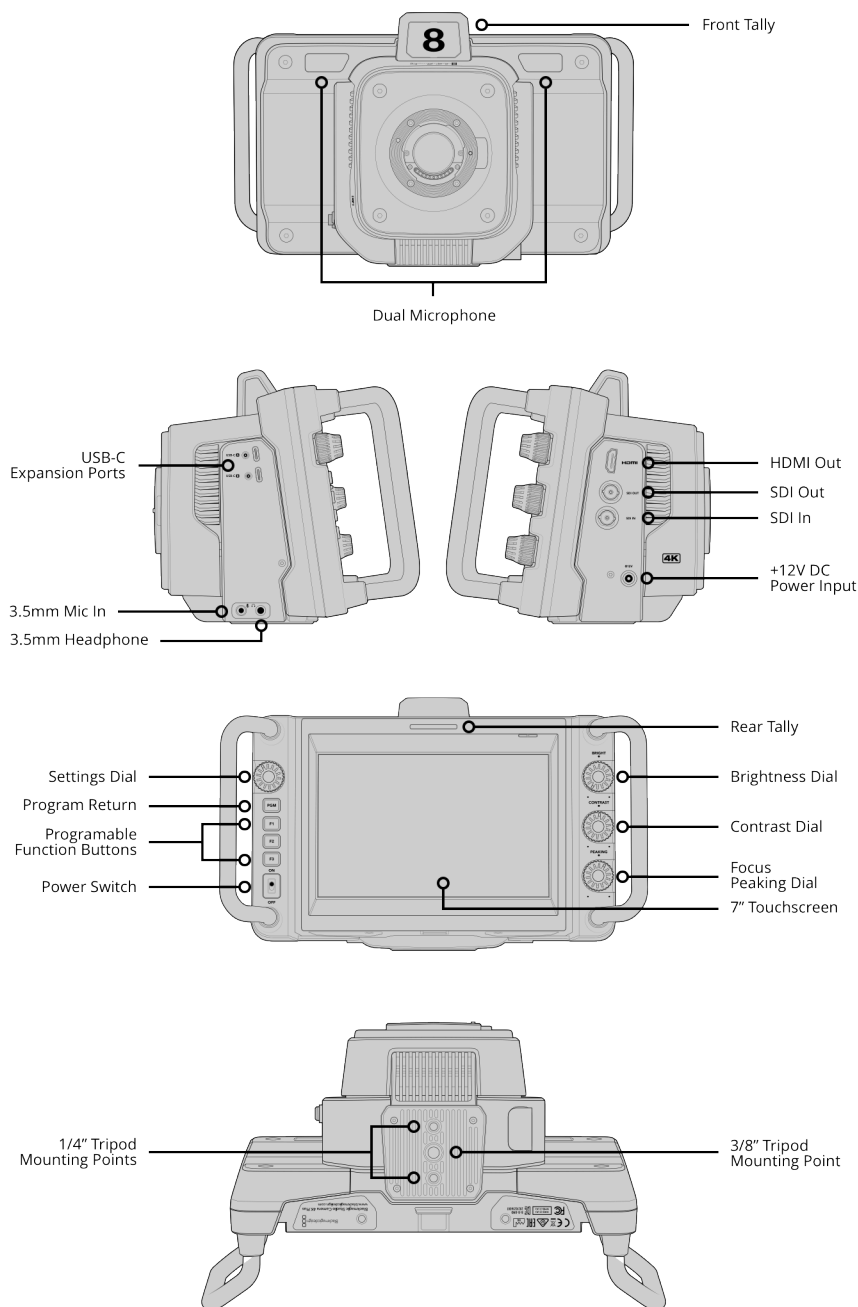
2 channels of program audio embedded in 1.5G/3G/6G/12G-SDI. 2 talkback channels on 15 and 16

Remote Control

Remote camera control over SDI, HDMI or USB Ethernet.

Computer Interface

2 x USB Type-C 3.1 Gen 1 (up to 5Gb/s) expansion ports for external recording and focus / zoom demand connection. Software updates using USB-C Port A.



Audio

Microphone

Integrated stereo microphone.

Built in Speaker

1 x mono speaker.

Standards

SD Video Standards

None

HD Video Standards

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

Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,
2160p29.97, 2160p30, 2160p50,
2160p59.94, 2160p60

SDI Compliance

SMPTE 292M, SMPTE 424M,
SMPTE 425M level A and B,
SMPTE 2081-1, SMPTE 2081-10,
SMPTE 2082-1 and SMPTE 2082-10.

SDI Audio Sampling

Television standard sample rate of 48 kHz and 24-bit.

HDMI Audio Sampling

Television standard sample rate of 48 kHz and 24-bit.

Media

Media

2 x USB-C 3.1 Gen 1 expansion ports for external media for recording Blackmagic RAW.

Media Format

Can format media to ExFAT (Windows/Mac) or HFS+ (Mac) file systems.

Supported Codecs

Codecs

Blackmagic RAW Constant Bitrate 3:1,
Blackmagic RAW Constant Bitrate 5:1,
Blackmagic RAW Constant Bitrate 8:1,
Blackmagic RAW Constant Bitrate 12:1,
Blackmagic RAW Constant Quality Q0,
Blackmagic RAW Constant Quality Q1,
Blackmagic RAW Constant Quality Q3,
Blackmagic RAW Constant Quality Q5

Storage Features

Storage Type

2 x USB-C 3.1 Gen 1 expansion ports for external media.

Recording Formats

Blackmagic RAW 3:1, 5:1, 8:1, 12:1, Q0, Q1, Q3 and Q5 in Ultra HD 3840 x 2160 at the selected frame rate.

Storage Rates

Storage rates based on 30 frames per second.

3840 x 2160 (Ultra HD)

Blackmagic RAW 3:1 - 127 MB/s

Blackmagic RAW 5:1 - 77 MB/s

Blackmagic RAW 8:1 - 48 MB/s

Blackmagic RAW 12:1 - 32 MB/s

Blackmagic RAW Q0 - 96 to 190 MB/s

Blackmagic RAW Q1 - 64 to 153 MB/s

Blackmagic RAW Q3 - 43 to 109 MB/s

Blackmagic RAW Q5 - 26 to 64 MB/s

Constant Quality storage rates quoted are indicative only.

Actual storage rates are entirely dependent on image subject matter.

Control

External Control

Blackmagic Zoom Demand and Blackmagic Focus Demand for controlling your camera and lens from tripod handles.

Blackmagic Control Protocol over SDI and HDMI for external control when used with a compatible ATEM switcher with ATEM Software Control or ATEM Camera Control Panel. Includes control of some camera settings, focus, iris and zoom with compatible lenses, color corrector, tally and record start and stop to external media via USB expansion port.

Camera Control REST API over USB Ethernet for external control via HTTP when used with REST client applications such as Postman.

Network Management

NTP

Network time protocol support allows you to sync the time on your camera, whenever connected to a network with any NTP server of your choice.

Web Media Manager

Using a browser connected over Ethernet, web media manager allows you to access, browse, download and delete files from any drive connected to the camera.

FTP

Download files from any drive attached to your camera using FTP.

SMB

File sharing using SMB

Color Corrector

DaVinci YRGB

Talkback and Tally

Live Tally Indicator

1 x front facing for talent,
1 x rear facing for operator.

Talkback

SDI Channels 15 and 16.

Software

Software Included

Blackmagic Camera Setup for Mac
and Windows.

Operating Systems



Mac 13.0 Ventura,
Mac 14.0 Sonoma or later.



Windows 10 and 11.

Power Requirements

Power Supply

1 x External 12V DC 60W power supply.

Power Inputs

1 x 12V DC locking 5.5 mm barrel connector.

Power Usage

15 - 22 W.

Optional Accessories

Blackmagic Focus Demand
Blackmagic Zoom Demand
ATEM Mini switchers
ATEM Television Studio HD and
HD Pro switchers

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 Studio Camera 4K Plus G2

Blackmagic Studio Camera Sun Shade

Tripod Mount compatible with 15mm lightweight rails

Turret Dust Cap

External 12V DC power supply with locking connector and international socket adapters for most countries.

Warranty

1 Year Limited Manufacturer's Warranty.

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