

Blackmagic Studio Camera 4K Pro



\$1,795

Designed for powerful SDI switchers, Blackmagic Studio Camera 4K Pro adds professional 12G-SDI and 10G Ethernet connections. That's perfect when the camera is located a long distance from a switcher. There's a 12G-SDI output and a 12G-SDI program return input that includes camera control, talkback and tally. You also get the same powerful HDMI output with control features. Plus the 10G Ethernet connection allows all connections on a single cable for a SMPTE style workflow that's much lower cost.

Camera Features

Effective Sensor Size

17.78mm x 10mm (Four Thirds)

Signal to Noise Ratio

63dB for 2160p.

Screen Type

LCD capacitive touchscreen.

Lens Mount

Active MFT Mount.

Shooting Resolutions

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

Screen Brightness

2000 nits

Lens Control

Iris, focus, zoom on supported lenses.

Frame Rates

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

Controls

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

Dynamic Range

13 Stops.

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

Dual Native ISO

0dB and 18dB gain.

Focus

Auto focus available using compatible lenses.

Mounting Options

2 x 1/4 inch tripod mount.
1 x 3/8 inch tripod mount.

Sensitivity at 0dB Gain

f11 with 2160p59.94.
f12 with 2160p50.
at 2,000 lux with 89.9% reflectance.

Screen Dimensions

7 inch 1920 x 1200

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

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

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

Analog Audio Output

1 x 5-pin XLR for talkback headset.

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

Reference Inputs

Tri-Sync or Black Burst when used with optional Blackmagic Studio Converter.

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

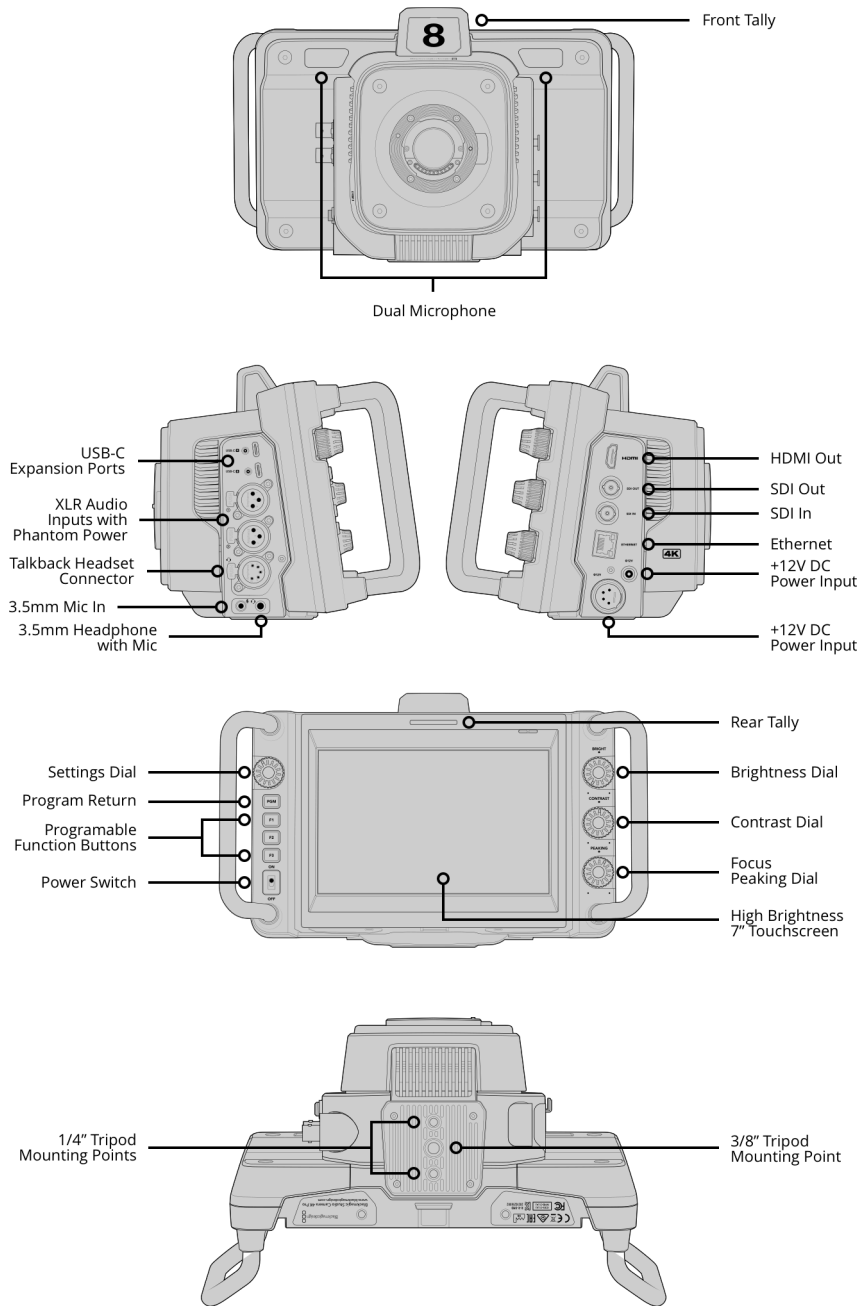
Remote camera control over SDI, HDMI or Ethernet.

Ethernet

10Gb/s

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

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

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.

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.

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 10.15 Catalina,
Mac 11.1 Big Sur or later.



Windows 10, 64-bit.

Power Requirements

Power Supply

1 x External 12V DC 60W power supply.

Power Inputs

1 x 12V DC locking 5.5 mm barrel connector.

1 x 12V DC 4 pin XLR input for external power supply or battery use.

1 x RJ45 Ethernet connector for power from Type 4 PoE power supplies.

Power Usage

26 - 40 W using DC input.

30 - 46 W using PoE input.

Optional Accessories

Blackmagic Focus Demand

Blackmagic Zoom Demand

Blackmagic Studio Converter

ATEM Mini switchers

ATEM Television Studio Pro switchers

Blackmagic 3G-SDI Shield for Arduino

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 Pro

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 sockets adapters for most countries.

Warranty

12 Month Limited Manufacturer's Warranty.

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