# Blackmagic Studio Camera 4K Pro



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.

**A$3,165**

## 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**
2000 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**

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**

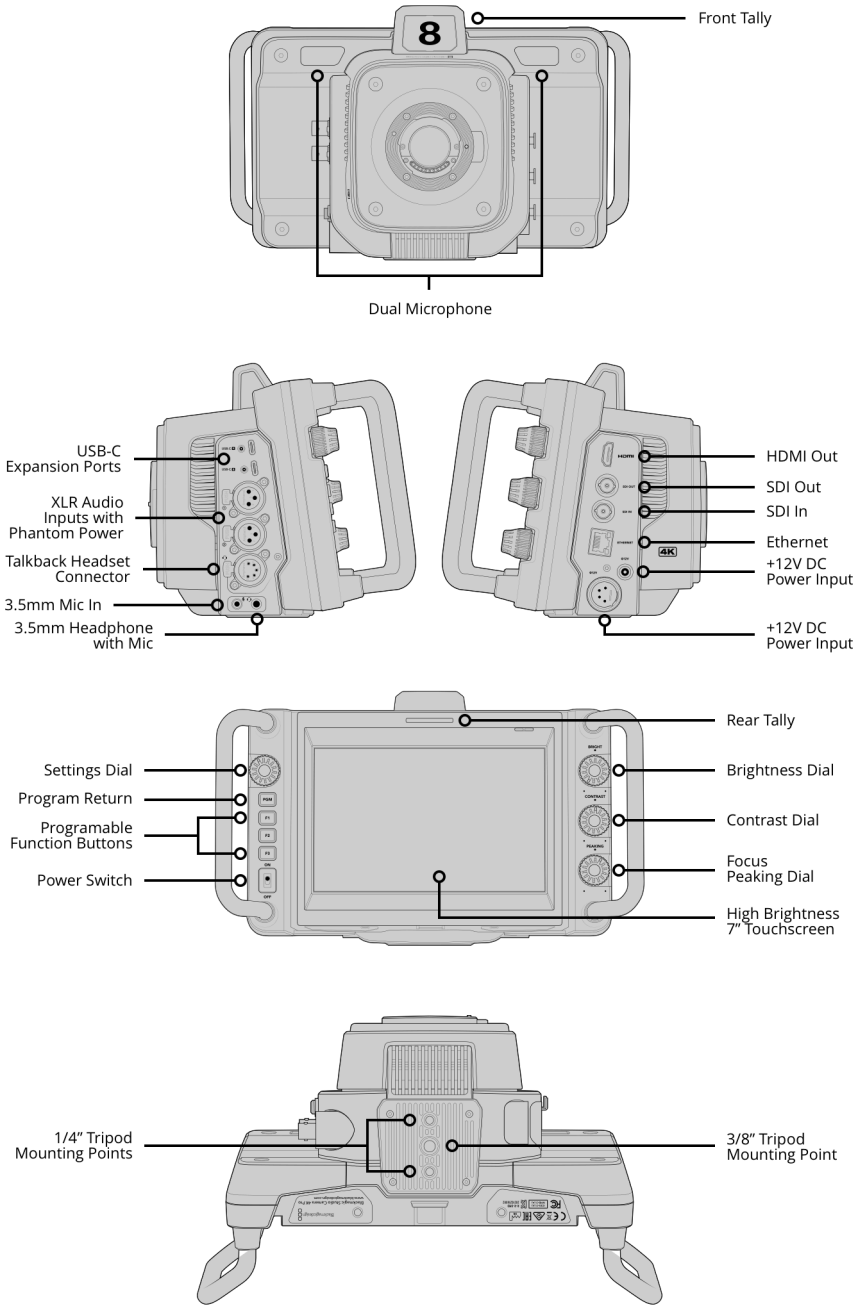
Remote camera control over SDI, HDMI or Ethernet.

**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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