

Blackmagic PYXIS 12K



Blackmagic PYXIS 12K L-Mount is an advanced digital film camera with an incredibly versatile design that lets you build the perfect camera rig for your production. This new model features a 12,288 x 8040 full frame RGBW sensor with built in optical low pass filter, 16 stops of dynamic range, dual CFexpress media slots, all in a customizable body with flexible mounting options and side plates. Blackmagic PYXIS 12K L-Mount features a fixed L-Mount that works with the latest full frame lenses and a wide range of lens adapters.

\$5,495

Camera Features

Effective Sensor Size

35.64mm x 23.32mm (Large Format)

Pixel Pitch

2.9 microns

Lens Mount

Active L-Mount.

Lens Control

Iris and focus on supported lenses.

Dynamic Range

16 Stops.

Native ISO

800

Shooting Resolutions

12,288 x 8040 (12K 3:2 open gate)

12,288 x 6912 (12K 16:9)

12,288 x 6480 (12K 17:9)

12,288 x 5112 (12K 2.4:1)

9648 x 8040 (12K 6:5)

9408 x 6264 (9K 3:2)

8688 x 4896 (9K 16:9)

9312 x 4896 (9K 17:9)

9312 x 3864 (9K 2.4:1)

7680 x 6408 (9K 6:5)

8192 x 5360 (8K 3:2 open gate)

8192 x 4608 (8K 16:9)

8192 x 4320 (8K 17:9)

8192 x 3408 (8K 2.4:1)

6432 x 5360 (8K 6:5)

4096 x 2680 (4K 3:2 open gate)

4096 x 2304 (4K 16:9)

4096 x 2160 (4K 17:9)

4096 x 1704 (4K 2.4:1)

3216 x 2680 (4K 6:5)

Frame Rates

Project frame rates of 23.98, 24, 25, 29.97, 30, 50, 59.94 and 60 fps supported. Maximum sensor frame rate dependent on resolution selected.

High Frame Rates

12K (3:2 open gate) up to 40 fps
12K (16:9) up to 45 fps
12K (17:9) up to 50 fps
12K (2.4:1) up to 60 fps
12K (6:5) up to 40 fps
9K (3:2 Super 35) up to 50 fps
9K (16:9 Super 35) up to 65 fps
9K (17:9 Super 35) up to 65 fps
9K (2.4:1 Super 35) up to 80 fps
9K (6:5 Super 35) up to 50 fps
8K/4K (3:2 open gate) up to 72 fps
8K/4K (16:9) up to 84 fps
8K/4K (17:9) up to 90 fps
8K/4K (2.4:1) up to 112 fps
8K/4K (6:5) up to 72 fps

Focus

Auto focus available using compatible lenses.

Iris Control

Iris wheel and touchscreen slider for manual iris adjustment on electronically controllable lenses, iris button for instant auto iris settings using compatible lenses.

Screen Dimensions

4" 1920 x 1080.

Screen Brightness

1500 nits

Screen Type

LCD capacitive touchscreen.

Metadata Support

Automatically populated lens data from electronic L-Mount lenses.
Automatic recording of camera settings, motion sensor data plus slate data such as project, scene number, take and special notes. A 3D LUT can also be embedded in metadata of Blackmagic RAW files.

Controls

Touchscreen menus on 4 inch screen. Push buttons for other controls. 3 assignable shortcut keys.

Timecode Clock

Highly accurate timecode clock. Less than 1 frame drift every 8 hours.

Connections

Total Video Inputs

None

Total Video Outputs

1 x 12G-SDI up to 2160p60 1 x Viewfinder USB-C with power, data, video and locking connector.

Analog Audio Inputs

1 x mini XLR analog audio in, switchable between mic with phantom power support and line level (up to +14dBu). 1 x 3.5mm Stereo Input.

Analog Audio Outputs

1 x 3.5mm headphone jack.

Reference Inputs

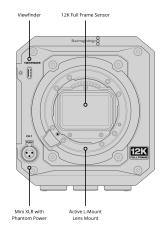
Tri-Sync/Black Burst and Timecode.

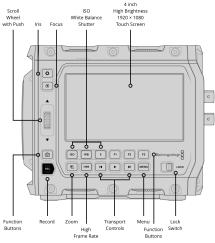
Computer Interface

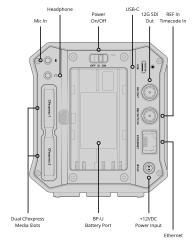
USB Type-C for external drive recording, PTP camera control and software updates.

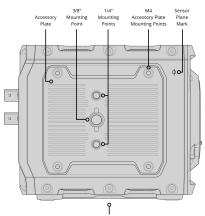
Ethernet

1 x 10Gb/s RJ-45 connector supporting 10/100/1000/10G BASE-T.









Standards

HD Video Standards

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 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.

Audio

Microphone

Integrated stereo microphone.

Built in Speaker

1 x mono speaker.

Media

Media

2 x CFexpress Type B card slot, 1 x 10 Gbps USB-C port for external media for Blackmagic RAW and H.264 Proxy Recording.
Please refer to either the Manual or the Information Note at www.blackmagicdesign.com/support for compatible media.

Media Format

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

Supported Codecs

Codecs

4:2:0

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 Bitrate
18:1
Blackmagic RAW Constant Quality Q0
Blackmagic RAW Constant Quality Q1
Blackmagic RAW Constant Quality Q3
Blackmagic RAW Constant Quality Q3
Blackmagic RAW Constant Quality Q5
H.264 Proxy in 1920 x 1080, 8-bit

Control

External Control

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

iPad control, Bluetooth control, USB PTP camera control. External control of some camera settings, focus, iris and zoom with compatible lenses. Camera Control REST API over Ethernet.

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

Storage Features

Storage Type

2 x CFexpress Type B 1 x high speed USB-C expansion port for external media.

Storage Rates

Storage rates based on 24 frames per second.

12K - 12,288 x 8040 **Recording Formats** Blackmagic RAW 3:1 - 1,194 MB/s Blackmagic RAW 3:1, 8:1, 12:1, 18:1, Blackmagic RAW 8:1 - 448 MB/s Q0, Q1, Q3 and Q5 at full sensor Blackmagic RAW 12:1 - 299 MB/s width or height resolutions: Blackmagic RAW 18:1 - 199 MB/s 12,288 x 8,040, 12,288 x 6,912, Blackmagic RAW Q0 - 398 to 1,433 12,288 x 6,480, 12,288 x 5,112 and MB/s 9,648 x 8,040 Blackmagic RAW Q1 - 326 to 796 MB/ with film, extended video or video dynamic range or custom 3D LUT Blackmagic RAW Q3 - 179 to 448 MB/ embedded in metadata plus simultaneous recording of H.264 Blackmagic RAW Q5 - 120 to 358 MB/ 1920 x 1080 Proxies. Blackmagic RAW 3:1, 8:1, 12:1, 18:1, 9K - 9408 x 6264 Q0, Q1, Q3 and Q5 at Super 35 Blackmagic RAW 3:1 - 714 MB/s windowed sensor resolutions: Blackmagic RAW 8:1 - 268 MB/s 9,408 x 6,264, 8,688 x 4,896, Blackmagic RAW 12:1 - 179 MB/s 9,312 x 4,896, 9,312 x 3,864 and Blackmagic RAW 18:1 - 119 MB/s 7,680 x 6,408 Blackmagic RAW Q0 - 238 to 857 MB/ with film, extended video or video dynamic range or custom 3D LUT Blackmagic RAW Q1 - 195 to 476 MB/ embedded in metadata plus simultaneous recording of H.264 Blackmagic RAW Q3 - 107 to 268 MB/ 1920 x 1080 Proxies. Blackmagic RAW 3:1, 5:1, 8:1, 12:1, Blackmagic RAW Q5 - 72 to 214 MB/s Q0, Q1, Q3 and Q5 at full sensor 8K - 8192 x 5360 width or height scaled to: Blackmagic RAW 3:1 - 533 MB/s 8,192 x 5,360, 8,192 x 4,608, Blackmagic RAW 5:1 - 320 MB/s 8,192 x 4,320, 8,192 x 3,408 and Blackmagic RAW 8:1 - 200 MB/s 6,432 x 5,360 Blackmagic RAW 12:1 - 133 MB/s with film, extended video or video Blackmagic RAW Q0 - 320 to 639 MB/ dynamic range or custom 3D LUT embedded in metadata plus Blackmagic RAW Q1 - 228 to 533 MB/ simultaneous recording of H.264 1920 x 1080 Proxies. Blackmagic RAW Q3 - 133 to 400 MB/ Blackmagic RAW 3:1, 4:1, 5:1, 6:1, Q0, Q1, Q3 and Q5 at full sensor width or Blackmagic RAW Q5 - 100 to 266 MB/ height scaled to: 4,096 x 2,680, 4,096 x 2,304, 4K - 4096 x 2680 4,096 x 2,160, 4,096 x 1,704 and Blackmagic RAW 3:1 - 135 MB/s 3,216 x 2,680 Blackmagic RAW 4:1 - 101 MB/s with film, extended video or video Blackmagic RAW 5:1 - 81 MB/s dynamic range or custom 3D LUT Blackmagic RAW 6:1 - 68 MB/s embedded in metadata plus Blackmagic RAW Q0 - 202 to 336 MB/ simultaneous recording of H.264 S 1920 x 1080 Proxies. Blackmagic RAW Q1 - 135 to 311 MB/ Constant Quality storage rates quoted are indicative only. Blackmagic RAW Q3 - 101 to 238 MB/ Actual storage rates are entirely dependent on image subject matter. Blackmagic RAW Q5 - 81 to 202 MB/s

Software

Software Included

Blackmagic OS

DaVinci Resolve Studio for Mac and Windows including activation key

Blackmagic Camera Setup

Blackmagic RAW Player

Blackmagic RAW QuickLook Plugin

Blackmagic RAW SDK

Blackmagic RAW Speed Test

Operating Systems



Mac 14.0 Sonoma, Mac 15.0 Sequoia or later.



Windows 10 and 11.

Power Requirements

Power Supply

1 x External 18V DC 90 W power supply.

External Power Input

1 x 2-pin Lemo compatible locking connector.

Battery Type

BP-U series.

Power

12V - 18V

Accessories

Optional Accessories

Blackmagic URSA Cine Handle Blackmagic URSA Cine EVF Blackmagic PYXIS Rosette Plate Blackmagic PYXIS Monitor Blackmagic PYXIS Monitor Kit Blackmagic PYXIS Monitor EVF Kit

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 PYXIS 12K Lens turret dust cap

PYXIS Standard Plate

PYXIS SSD Plate

90W power supply with locking connector and international adapters

Welcome booklet

DaVinci Resolve Studio activation key

Warranty

Product Warranty

1 Year Limited Manufacturer's Warranty.

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