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BASLER PULSE USB3.0 CAMERAS

Compact Cameras

PUA2500-14UC/CS
USB 3.0 Colour-Aptina MT9P031, 1/3,7" CMOS, 14 fps, 5 MP, CS



- Resolution: up to 5 MP and frame rate: up to 60 fps
- Supported by Pylon Suite software and open-source SDKs for easy image acquisition and fast application development
- Compact size and elegant design
- USB3.0 Vision compatible

PRODUCT DESCRIPTION

The Basler Pulse series of USB 3.0 cameras combines compact design with powerful imaging performance, making it ideal for applications that require both form and function. Housed in a lightweight, durable aluminium casing, these cameras feature high-quality CMOS sensors with resolutions ranging from 1.2 to 5 megapixels and support frame rates up to 60 fps. The USB 3.0 interface provides high-bandwidth data transfer (up to 5 Gbps), ensuring low-latency, high-resolution image capture with minimal setup complexity. With a standard C-mount lens interface, built-in image processing capabilities, and support for the USB3 Vision and GenICam standards, the Basler Pulse is easy to integrate into a variety of systems.
In practical terms, Basler Pulse cameras are well-suited for medical imaging, embedded vision systems, retail analytics, robotics, and portable inspection devices. Their sleek, space-saving design (weighing just 60 grams) makes them ideal for systems with tight space constraints or aesthetic requirements, such as point-of-sale kiosks or patient-facing medical equipment. The combination of robust construction and high image fidelity also makes them reliable for 24/7 use in demanding environments. With full support from the Basler Pylon SDK, developers can quickly implement advanced imaging features to meet specific project needs.

TECHNICAL DATA

Sensor model	MT9P031
Resolution max	2592 x 1944 px
Frame rate max	14 fps
Mono/color	Color
Shutter type	Rolling
Interface	USB 3.0
3612_Pixel size (µm)	2.2 x 2.2
Sensor size	1/2.5"
Approvals	CE, FCC, GenICam, RoHS, UL, USB3 Vision, EAC
Sensor supplier	ON Semiconductor
Sensor Type	CMOS
Lens barrel	CS-mount
Weight	60 g

Length	28.2 mm
Power consumption	1.3 W
Operating temperature	0°C … 50°C



