

## BASLER PULSE USB3.0 CAMERAS

### Compact Cameras

PUA2500-14UM/CS  
USB 3.0 Camera-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

Approvals	CE, FCC, GenICam, RoHS, UL, USB3 Vision, EAC
Frame rate max	14 fps
Interface	USB 3.0
Length	28.2 mm
Lens barrel	CS-mount
Mono/color	Mono
Operating temperature	0°C ... 50°C
Pixel size	2.2 x 2.2
Power consumption	1.3 W
Resolution	5MP
Resolution max	2592 x 1944 px
Sensor model	MT9P031
Sensor size	1/2.5"

Sensor supplier	ON Semiconductor
Sensor Type	CMOS
Shutter type	Rolling
Weight	60 g

