

acA2500-14gm Basler 5MP 14fps GigE 25mmF1.4 Industrial Camera Kit Datasheet



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Category: Machine Vision & Identification

Price: **\$471.39**

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Product Description

Basler acA2500-14gm 5 MP 14 fps GigE industrial camera features a 1/2.5" ON Semiconductor MT9P031 CMOS sensor with a 2592 x 1944 pixel resolution and 2.2 μm x 2.2 μm pixel size. The hardware assembly includes a Computar 25 mm F1.4 manual iris lens mounted via a standard C-mount interface. The camera housing measures 29 mm x 29 mm x 42 mm and utilizes a rolling shutter mechanism with global reset release. Power is supplied via Power over Ethernet (PoE) or a 6-pin Hirose connector supporting 12 VDC. Data transmission is handled through a Gigabit Ethernet interface compliant with GigE Vision and GenICam standards.

acA2500-14gm Specifications

Model: acA2500-14gm

Brand: Basler

Sensor: ON Semiconductor MT9P031

Sensor Type: CMOS

Sensor Format: 1/2.5"

Resolution: 2592 x 1944 px (5 MP)

Frame Rate: 14 fps

Pixel Size: 2.2 μm x 2.2 μm

Shutter: Rolling Shutter

Interface: GigE (1000 Mbit/s)

Lens Mount: C-mount

Lens Model: Computar M2514-MP2

Lens Focal Length: 25 mm

Lens Aperture: F1.4 - F16

Lens Format: 2/3"

Minimum Object Distance: 300 mm

Power Supply: PoE (802.3af) or 12 VDC

Power Consumption: 2.2 W (typical)

Dimensions: 29 mm x 29 mm x 42 mm

Weight: 90 g

Operating Temperature: 0 to 50 °C

Digital I/O: 1 input / 1 output

Compliance: CE, RoHS, FCC, GenICam, GigE Vision

acA2500-14gm Applications

Primary applications include integration into automated optical inspection (AOI) systems for PCB defect detection and semiconductor wafer metrology. Deployed within high-speed pharmaceutical packaging lines for label verification and robotic pick-and-place units for precision component alignment.

Supplemental Images

