



Head-Separated Compact
Global Shutter Camera

Sets
next standards
beyond
prevailing boundaries
for compact cameras.

 **PULAX**
Growth & Evolution

Head-Separated Compact Global Shutter Camera

Global Shutter Camera

Ideal for incorporating into industrial products or equipment such as robots.

- POINT 1** Separated head's small diameter $\phi 16$ mm { $\phi 0.63$ in}, enables installation to tight-to-access spots within products or equipment.
- POINT 2** A global shutter CMOS sensor, optimum solution for moving objects.
- POINT 3** Long head cable, up to 10 m {32.81 ft}, enabling high-speed transmission (max. 1.4 Gbps).



Compact
Separate
Head
 $\phi 16$ mm
{ $\phi 0.63$ in}

1.2 million
pixels

Intended use



Automotive industry

Outstanding image quality and durability of this camera realize higher quality standard and highly automated production process for automobiles.



Robot

Robots equipped with light-weight compact cameras automate diverse processes of production and inspection.



Food and Container

Cameras with excellent speed and resolution allow to inspect large volume of foods, containers, or labels on production lines.

Other use



Electronic Devices and Semiconductors

Compact cameras with incredible speed and resolution enable to produce and inspect electronic devices even in ever miniaturizing and densification.



Pharmaceutical and Medical Products

Inspections for products and contents using cameras with superior speed and resolution allow users to comply with higher quality standard and stricter legal regulation.



Logistics

Cameras with higher speed and image quality play a important roll in picking and sorting parcels in fast and large flow as well as in AGV self-navigating.

Specifications

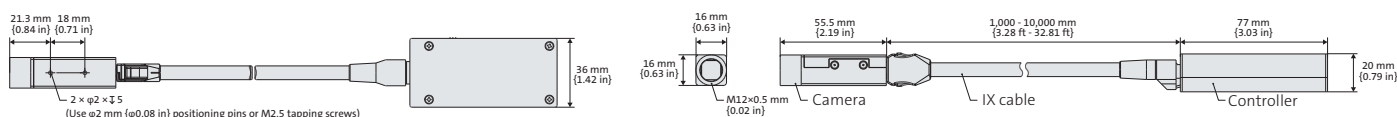


Image sensor: AR0135CS (Onsemi) [global shutter]
Image circle: 1/3 in, $\phi 6.0$ mm { $\phi 0.24$ in}
Interface: USB 3.0 compliant (UVC1.1 compliant)
Lens mount: M12 Mount
Effective pixels: 1280 $\times$ 960 (max. 54 fps)
1280 $\times$ 720 (max. 71 fps)

Output format: YUY2, RGB24
Image processing: Zynq-7000
Trigger mode: Compatible with external trigger inputs
Camera head size: 16 mm $\times$ 16 mm $\times$ 55.5 mm {0.63 in $\times$ 0.63 in $\times$ 2.19 in}
Head cable length: Standard 3 m {9.84 ft} (supports 1 m to 10 m {3.28 ft to 32.81 ft})
* Compatible with robot cables

Image processing including:

De-mosaic/ Gamma correction/
Color compensation/ Defect correction/
White balance/ Contrast/ Brightness/
Noise filtering/ Sharpness/ AE, AWB

