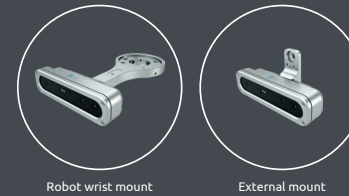


OnRobot Eyes

Adding vision to robotic applications has never been easier

TECHNICAL SPECIFICATIONS

Camera Characteristics					Unit
Interface	USB-C 3.x				
Output Resolution	1280 x 720				[px]
Working distance	400-1000 [15.75 – 39.37]				mm [inch]
Operating Temperature	0 – 35 [32 – 95]				°C [°F]
IP rating	IP 54				
Weight	0.260 [0.57]				kg [lb]
Eyes Features					Unit
Type of vision system	2.5 D				
Minimum part size	10x10 or 15 diameter [0.39x0.39 or 0.59 diameter]				mm [inch]
Applications Supported	Detection, Sorting, Inspection, Landmark				
Mounting options supported	Robot and External				
Reconfigurability when Robot mounted	12 configurations (4 x 3)				
	Around robot's flange		Tilt orientations		
	0 - 90 - 180 - 270		0 - 45 - 90		[degrees]
Detection Repeatability	< 2 [< 0.078]				mm [inch]
Detection Accuracy (typical) measured at 500 mm	External Mount		Robot Mount		
	2 [0.078]		2 [0.078]		mm [inch]
Minimum Inspection Defect Size	5 [0.197]				mm [inch]
Landmark accuracy **	Waypoint distance from Landmark	Minimum error	Typical error	Maximum error	
	200 [7.874]	0.2635 [0.0104]	0.6596 [0.0260]	0.9500 [0.0374]	mm [inch]
	500 [19.68]	0.6586 [0.0259]	1.6490 [0.0649]	2.3750 [0.0935]	mm [inch]
	1000 [39.37]	1.3173 [0.0519]	3.2981 [0.1298]	4.7500 [0.1870]	mm [inch]



Robot wrist mount

External mount

POWER UP PRODUCTION

- Adding vision to robotic applications has never been easier, with one-picture calibration, fast programming and seamless gripper integration
- Flexible, adaptable vision system with on-robot or external mounting is ideal for almost any collaborative application
- Affordable, efficient 2.5D vision offers depth perception for varying heights or stacked objects
- Easily sort, pick and place unstructured applications with high reliability using any robot arm
- One-shot detection for multiple objects minimizes cycle time
- Inspect objects using color and contour detection — with or without a robot, and ensure consistent quality
- Automatic landmark enables dynamic working environments and mobile robot setups