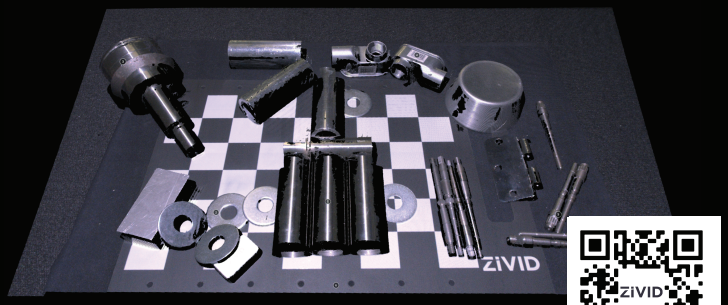
ZiVID

See more. Do more.

3D vision cameras

for industrial robotics

Zivid 3D point clouds

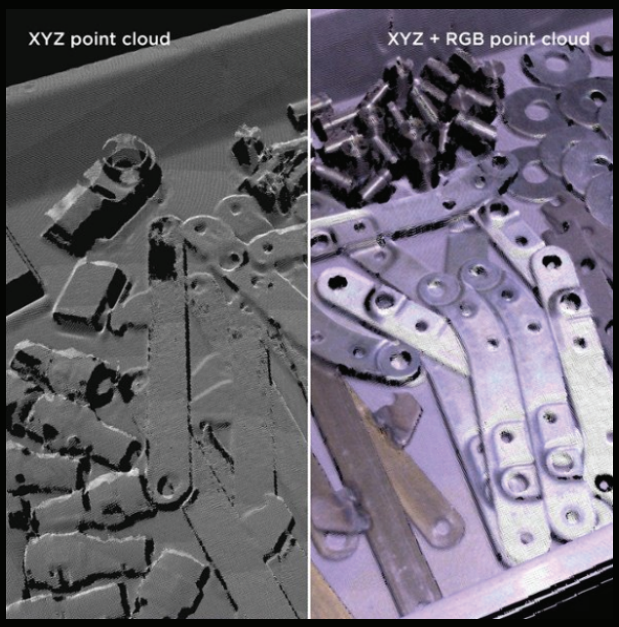


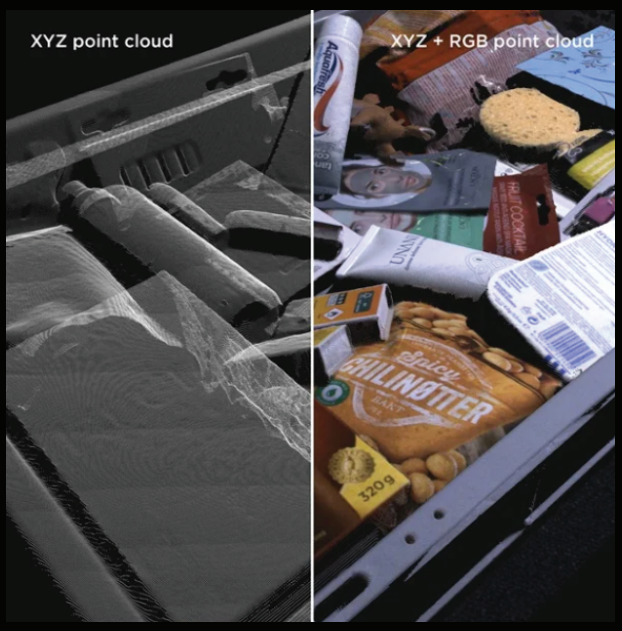
Get fast, high quality, full color 3D point clouds of a wide range of scenes and objects.

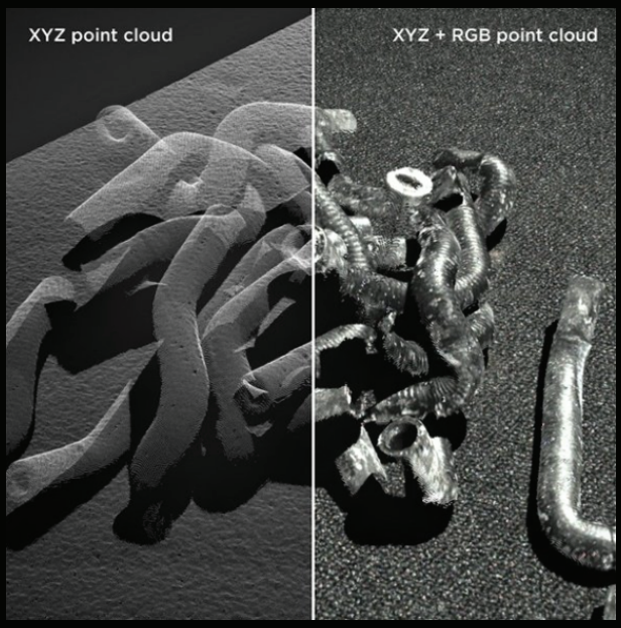
~100
ms capture

zivid.com

See the difference







Zivid industrial 3D cameras capture dense and vivid data with full RGB colors for your AI and detection algorithms.

With HDR capabilities Zivid delivers > 100dB of dynamic range

HDR capture

zivid.com

Why Zivid

Color 3D

Zivid's industrial 3D cameras output a full-color point cloud with intrinsic pixel per pixel XYZ and RGB data correlation. This simplifies the detection and separation of objects.

Ease of Use

Zivid cameras are all supported by the same code base and designed to be plug-and-play. The Zivid SDK is designed to be easily integrated and developer friendly.

Industrial Robustness

Zivid cameras are designed to perform in challenging environments while consistently delivering superb results thanks to their physical robustness and dynamic calibration.

High Resolution

The Zivid cameras allow your robot to capture high resolution and precision point clouds of even very small, densely packed or highly detailed objects. Distinguish features smaller than 5 mm.

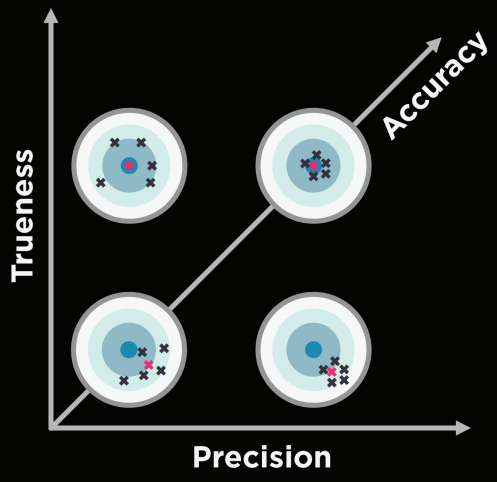
Read our customer stories

zivid.com

Trueness matters

Point cloud trueness is the secret to reliable picking. Zivid 3D cameras enable demanding pick and place operations and gives flexibility in choice of gripper.

Precision vs. Trueness

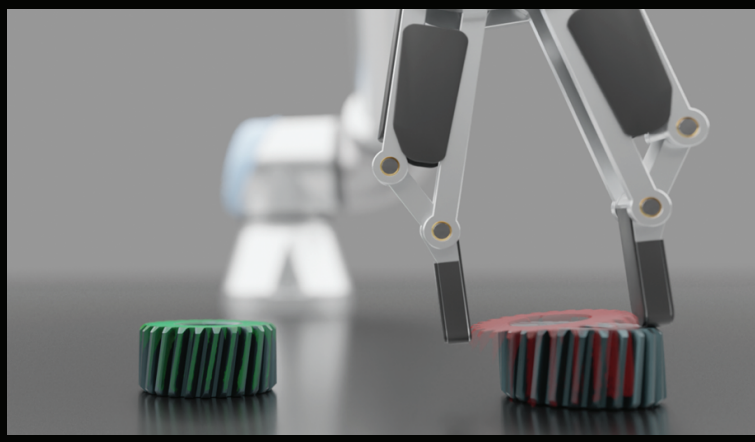


Precision is in the details

55µm of point precision shows you the fine details with minimal noise.

Trueness gives you reality

High trueness gives you the ability to trust in the size and placement of objects in your scene



Good detection does not guarantee good picking.

Zivid 3D Cameras

< 0.2% trueness error
at focus distance

3D hand-eye calibration
10x more accurate versus comparable calibration methods.

Floating thermal calibration

Mechanical and thermal stability

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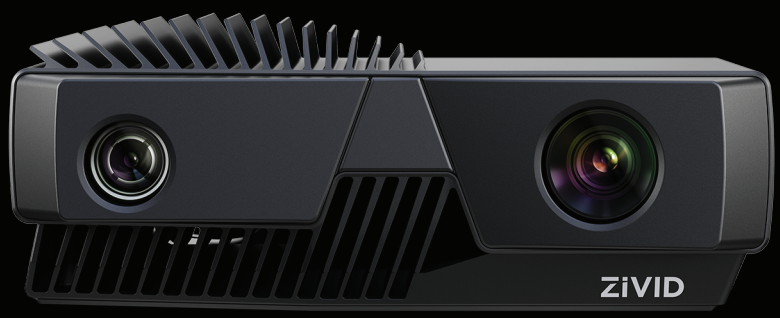
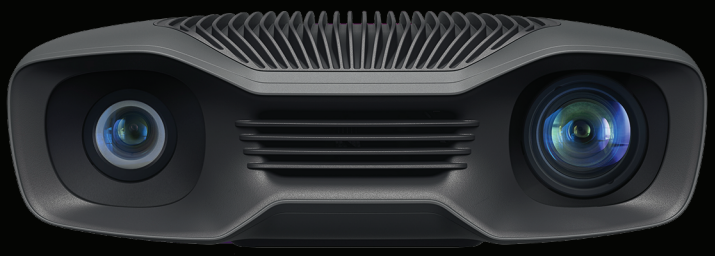
Zivid One+



	Small	Medium	Large
Key Applications	Tiny and small objects, trays/boxes	Small and medium objects, totes/bins	Medium and large objects, standard EU/US pallets
Focus Distance (mm)	500	1000	1800
Recommended Working Distance (mm)	300 to 1000	500 to 2000	1200 to 3000
Field of view (mm) at focus distance	350 X 220 at 500	702 X 432 at 1000	1252 X 783 at 1800
Spatial resolution (mm)	0.18 at 500	0.37 at 1000	0.67 at 1800
Point Precision	25 µm	110 µm	350 µm
Dimension trueness error	< 0.2%	< 0.4%	< 0.6%
Technology	Structured light 3D technology		
Resolution	2.3 MPx 3D with native 2D color		
Dimension & weight	226 x 165 x 86 mm 2 kg		
Environmental	IP65 Water and dust proof 0 - 40 °C operating temperature 5G shock 15G vibration		

Zivid Two



	M70	L100
Key Applications	Robot guiding Assembly Mobile inspection	Bin picking Machine tending Item picking in logistics
Focus Distance (mm)	700	1000
Recommended Working Distance (mm)	300 to 1300	600 to 1600
Field of view (mm) at focus distance	754 X 449 at 700	1050 X 620 at 1000
Spatial resolution (mm)	0.39 at 700	0.56 at 1000
Point Precision	55 µm	130 µm
Dimension trueness error	< 0.2%	< 0.3%
Technology	Structured light 3D technology	
Resolution	2.3 MPx 3D with native 2D color	
Dimension & weight	169 x 122 x 56 mm 945 g	
Environmental	IP65 Water and dust proof 0 - 40 °C operating temperature 5G shock 15G vibration	

Applications

Zivid 3D cameras capture vivid color point clouds for a wide range of applications.

Assembly

The Zivid Two 3D camera enables higher tolerances for object variations and successful detection, accurate picks, and correct position for assembling them.

Bin Picking

The choice of the 3D camera impacts the robot's ability to successfully detect, pick, and place all types of parts.

Inspection

The Zivid Two 3D industrial color camera is ideally suited for maintenance inspection with its robot-mounted ability to inspect very fine details.

Piece Picking

Zivid's unique combination of native color and high dynamic range enables imaging of a broad range of SKUs from an inventory bin.

Contact us

Zivid is a market-leading, pure play provider of industrial 3D machine vision cameras and vision software for autonomous industrial robot cells, collaborative robot (cobot) cells and other industrial automation systems.

sales@zivid.com