



Union Image

Eagle-B200u



Specifications			Stereo Depth Camera
Basic Specifications	Operating Environment	Indoor / Outdoor	
	Recommended Working Distance	0.15 m to 3 m	
	Data & Power Interface	USB3.0/GMSL/Gigabit Ethernet	
	Stereo Baseline	63mm	
Depth Specifications	Depth Sensor Shutter	Global Shutter	
	Depth Camera FOV (H × V)	115°(H)×96°(V)	
	Depth Resolution @ Frame Rate	640 × 480@15fps 320 × 240@30fps	
	Relative Depth Accuracy	<1% at 1 m	
Physical Specifications	Output Formats	Point Cloud Map, Depth Map, RGB image	
	Physical Specifications	106.5 mm × 44.5mm × 30.7 mm	



Commercial Cleaning Robot



Quadruped Robot



Logistics Delivery Robot



Robotic Lawn Mower



Production Line Robot



Close-Range Human-Machine Interaction

The Eagle Series depth cameras are passive stereo depth cameras developed by Union Image. Different models support measurement ranges from 7 cm to 5 m, with an accuracy error of less than 1%.

Mid- and long-range models deliver high-precision depth data for applications such as commercial cleaning robots, robotic lawn mowers, and logistics delivery robots, enabling navigation, obstacle avoidance, and object recognition. Short-range models are well suited for robotic grasping, measurement and inspection on production and assembly lines, medical examination, and close-range human-machine interaction.

With multiple interface options available, the Eagle Series meets data transmission requirements across complex application scenarios. The product line supports highly customized development across optics, mechanical design, hardware, and algorithms, providing customers with end-to-end system solutions from application scenarios to hardware implementation.

Union Image Co., Ltd

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Union Image

Eagle-B100u



	Specifications	Stereo Depth Camera
Basic Specifications	Operating Environment	Indoor / Outdoor
	Recommended Working Distance	7 cm to 50cm
	Data & Power Interface	mipi
	Stereo Baseline	20mm
Depth Specifications	Depth Sensor Shutter	Global Shutter
	Depth Camera FOV (H × V)	120°(H) × 90.2°(V)
	Depth Resolution @ Frame Rate	640 × 480@15fps 320 × 240@30fps
	Relative Depth Accuracy	<1% at 50 cm
	Output Formats	mipi Rawdata
Physical Specifications	Physical Specifications	42mm × 24mm × 12.5mm
Other Parameters	Key Features	Separated depth computation architecture. Depth processing can be handled by the host SoC or used with Union Image's computing module.



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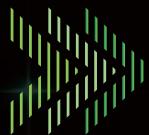


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Union Image

Prism-S100u



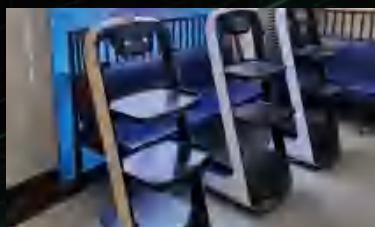
	Specifications	Stereo Depth Camera
Basic Specifications	Operating Environment	Indoor / Outdoor
	Recommended Working Distance	0.3m to 6m
	Data & Power Interface	USB3.0/GMSL/Gigabit Ethernet
	Stereo Baseline	63mm
Depth Specifications	Depth Sensor Shutter	Global Shutter
	Depth Camera FOV (H × V)	115°(H) × 96°(V)
	Depth Resolution @ Frame Rate	640 × 480@15fps 320 × 240@30fps
	Relative Depth Accuracy	<2% at 4 m
RGB Parameters	Output Formats	Point Cloud Map, Depth Map, IR image
	Color Camera Sensor Shutter	N/A
	RGB Resolution @ Frame Rate	N/A
Physical Specifications	FOV (H × V) / Color Camera FOV (H × V)	N/A
	Module Dimensions	106.5mm × 44.5mm × 30.7mm



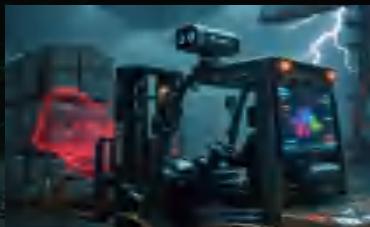
Commercial Cleaning Robots



Logistics Delivery Robots



Food Delivery Robots



Autonomous Forklift Robots

Excellent Low-Light Performance

Active speckle projection effectively suppresses ambient light interference, ensuring stable and high-precision depth output even in low-light and textureless environments.

High Precision with Fine Detail

By combining stereo disparity with structured light technology, the system achieves millimeter-level depth accuracy, clearly capturing object edges and fine details for precision measurement applications.

RGB-D Fusion

Depth and RGB streams are pixel-aligned to directly generate colored point clouds, providing high-quality data for AI applications such as object recognition and classification.

Wide Dynamic Range

Advanced algorithms effectively mitigate ambient light interference, enabling reliable performance across complex lighting conditions from indoor to semi-outdoor environments.

Industrial-Grade Reliability

Featuring a robust mechanical design and a proven system architecture, the camera supports multiple industrial interfaces including USB, GMSL, and Gigabit Ethernet, ensuring long-term stable operation in demanding environments.

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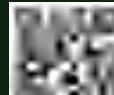
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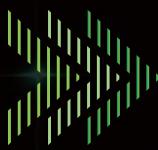
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Pulse-I200u



	Specifications	iTOF Depth Camera
Basic Specifications	Operating Environment	Indoor / Outdoor
	Recommended Working Distance	0.1m to 8m
	Data & Power Interface	USB3.0/GMSL/Gigabit Ethernet
	TOF Sensor	Novoton KW33003
	TOF Method	Pulsed iTOF + 2D RGB
	Depth Camera FOV (H × V)	120 °(H) ×90 °(V)
	Depth Resolution	320 × 240
	Frame Rate	RGB & Depth mode : 15fps
	VCSEL	Flood (x1)
	Wavelength	940nm
Depth Specifications	Relative Depth Accuracy	<1% at 5 m
	Output Format	Point Cloud Map, Depth Map, RGB image,IR image
	RGB Sensor Shutter	Gobal Shutter
	RGB Resolution	640 × 480
RGB Parameters	Frame Rate	RGB & Depth mode : 15fps
	RGB Camera FOV (H × V)	120 °(H) ×90 °(V)
Physical Specifications	Average Power Consumption	<2W
	Module Dimensions	46mm ×24mm × 28.5mm
Other Parameters	Color Detection Function	RGB-TOF Dual-Function Sensor



Robot Vacuum Navigation & Obstacle Avoidance



Robotic Lawn Mower Obstacle Avoidance



Food Delivery Robot Navigation & Obstacle Avoidance



Conference Display Participant Recognition



In-Vehicle Gesture Recognition & Control



Smart Lock Face & Gesture Recognition

True Fusion, Parallax-Free

World's first single-chip integration of iTOF and RGB sensors, achieving native synchronization of 2D and 3D data, fundamentally eliminating parallax.

Multi-Dimensional Sensing, Multi-Purpose

Single sensor simultaneously outputs 3D point cloud, 2D IR, and 2D RGB images, providing AI algorithms with richer perceptual data.

Simplified System, Efficient Integration

Provides an "All-in-One" solution, greatly simplifying optical calibration and system integration for customers, and shortening development cycles.

Compact Structure, High Reliability

Mechanism-free design integrates long-range measurement, object detection, and recognition, significantly reducing module size while enhancing reliability.

All-Weather, High-Precision Perception

Combining infrared and visible light imaging, the system ensures stable operation in complex lighting conditions, day or night.

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