

Ruggedized 3D Camera

LIPSedge™ AE450

**Longer Range
Better Accuracy**




Key Product Features


- See further with longer range (10+ m) and capture better depth with high Z-accuracy ($\leq 2\%$ at 4 meters)
- Global shutter with wide FOV ($87^\circ \times 58^\circ \times 95^\circ$) and can be deployed for both indoor/outdoor
- Ruggedized 3D camera with GigE/PoE, IP67 rating, and built-in IMU & heatsink for industrial use
- Support industrial 3D framework such as ROS, NVIDIA Isaac, OpenNI, OpenCV, and more..
- Strong LIPS middleware support such as LIPSense 3D Body Pose SDK and LIPScan 3D Scan SDK

LIPSedge™ AE450 is well-suited for the following applications

**VGR
(Vision Guided Robotic)**




Surface Processing




Pick & Place

**3D Measurement
& Inspection**




Object Dimensioning




Packing Completeness

Workplace Safety



Robotic Arm
Collision Avoidance



Tracking worker



LIPS®
Sense The World



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Specifications

Depth	Technology	Active Stereo
	Max. Working Distance	10m
	Min. Working Distance	0.52m
	XY Resolution	1280x720@30fps, 640x480@60fps
	Frame Rate	Up to 60fps
	Shutter Type	Global Shutter
	FoV (H x V x D)	87° x 58° x 95°
	Z Accuracy	≤ 2% (up to 4 meters and 80% of FoV) *The Accuracy will vary with distance.
RGB	Resolution	1280 x 800@30fps
	FoV (H x V x D)	87° x 58° x 95°
Illumination	Type	Infrared
	Wavelength	850nm
Sensor	6-axis IMU	3-axis accelerator & 3-axis gyroscope
General	Dimension[mm]	145 x 102 x 43mm
	Dustproof and Drip-proof	IP67
	Operating Temperature	0 ~ 40°C
	Storage Temperature	-20 ~ 60°C
	Power	PoE (IEEE 802.3AT) / Power wire (DC 12V, 2A)
	Mounting Mechanism	· 1/4" camera screw compatible (1/4-20UNC) · 4 x M4 thread 75x75mm mounting points
Output	Communication Interface	Gigabit Ethernet
SDK	<ul style="list-style-type: none"> · Intel® RealSense™ SDK 2.0 w/LIPS® GbE Static Library · Language / Framework wrappers for Intel® RealSense™ Technology · Other wrappers and tools <p>* For the latest software support information, visit LIPSedge™ AE450 product page on LIPS® website.</p>	
OS	<ul style="list-style-type: none"> · Windows 10 · Ubuntu 18.04/20.04 LTS 	
Environment	Indoor / Outdoor	



ROS

OpenNN



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