SENSE

100% Solid-State

No Vertical Gaps

Up to 65 m Range

3D Global Shutter

High-Precision Mode

Robotic Workcells
Conveyor Systems
Inventory Scanning
Part Handling / Polishing
Product Inspection
Bin Picking

Warehouse Mode

AGVs
Industrial Vehicles
Automated Forklifts
Heavy Equipment
Security / Monitoring
Pallet Detection
Area Surveying

Sense **One**

Purpose-built flash LiDAR for industrial deployments

Available in 3 hardware configurations to optimize range and FOV

Focus	Balance	Wide
80°H x 30°V	80°H x 60°V	95°H x 75°V
65 m range	30 m range	20 m range
0.27°H x 0.27°V Resolution	0.27°H x 0.27°V Resolution	0.27°H x 0.27°V Resolution
Configure 2-10 Hz	Configure 2-10 Hz	Configure 2-10 Hz

Laser Safety	Class 1 eye-safe per IEC 60825-1
Wavelength	Sense Illuminator - 940 nm VCSEL Array
Range Accuracy	3.5 cm (Typical)[1] with 10cm precision (max range)
Output	Point Cloud (X, Y, Z) Calibrated Reflectivity, Intensity, 2D Depth Map
Data Rate	~200,000 – 1,000,000 points / sec
Interface	Gigabit Ethernet (TCP/IP)
Synchronization	PTP (IEEE 1588)
Mounting	1/4-20" Threaded (Bottom)
Dimensions	140 mm (H) x 184 mm (W) x 187 mm (D)
Operating Temp.	-10°C to +50°C
Storage Temp.	-40°C to +80°C
Weight	3.4kg
Ingress Protection	IP67
Vibration	2.77g (rms), 10 - 1000 Hz, 3 axes w/ 8 hr duration ea. (IEC 60068-2-64, random)
Shock	500 m/s^2 Amplitude, 6 ms Duration, IEC 60068-2-27
Connectors	Data - RJ45 Power - Amphenol Lite M3 (2-pin)
Voltage & Power	12V to 24V DC 17 W (Nominal Consumption)[2]
Electrical	IEC 61010-2-201
EMI	IEC 61000-6-4 Radiation Interference (pending Q1 2021) IEC 61000-6-2 Noise Immunity (pending Q1 2021)
Certifications	FCC RoHS CE (pending Q1 2021)

[1] Typical accuracy refers to ambient wall test performance across pixel array and may vary with range, operating temperature, and target reflectivity
[2] Operating power may be influenced by factors including desired range and mode of operation