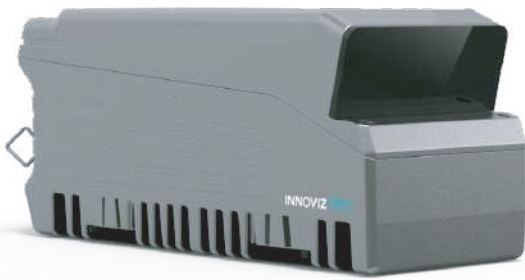# INNOVIZPRO

High-Performance Solid-State LiDAR
AVAILABLE NOW

Beta v2.5.20 Release Data Sheet

InnovizPro offers outstanding performance and value for automotive, mapping, and other applications. It creates a dense 3D point cloud at a high frame rate that enables exceptional perception. InnovizPro offers high pixel density with uniform vertical field of view. The sensor's advanced design ensures reliability and resilience to sunlight and weather conditions.

KEY PERFORMANCE METRICS

0.18°x0.4° Angular Resolution (HxV)	**135m** Detection Range	**72°x18.5°** Field of View (HxV)
16 FPS Frame Rate	**73x66x165mm** Dimensions (HxWxD)	**IP53** Environmental Protection

UNIQUE FEATURES
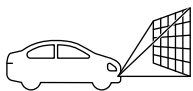
No Gaps Between Pixels

Equally Distributed vFOV

High Resolution At High FPS

Resilient to Sunlight and Weather Conditions

MARKET APPLICATIONS

Fleets

Automotive

Mapping

UAVs

Security

Industrial

Read More

INNOVIZPRO

OPTICAL PERFORMANCE

		@10% reflectivity	@50% reflectivity
Range	100klux	40m	90m
	15klux	60m	115m
Minimum range		2.1m	
Range accuracy		5cm @1σ distribution, <5cm bias. For range of <5m, range resolution is <30cm	
Field of view		72°x18.5° (HxV)	
Angular resolution		0.18°x0.4° (HxV)	
Frame rate		16 FPS	
Returns		Strongest Return	

LASER

Laser product class	Class 1, Eye-safe (IEC-60825-1)
Wavelength	905nm

OUTPUT

Points returned per second	248k
Connection	1000BASE-T Ethernet
Outputs	UDP: Distance, Reflectivity
Timestamp	1μsec resolution, GPS synchronized

CONTROL INTERFACE

Command and control	TCP/IP
Time synchronization	PPS plus $GPRMC message inputs through dedicated connector pins
Features	Web Server for cross-platform control; InnovizPlayer point cloud viewer and recording tool
	Windows, Linux & ROS drivers

MECHANICAL / ELECTRICAL

Power consumption	40W
Operating voltage	Regulated 9-12V
Dimensions (HxWxD)	73x66x165mm
Weight	950g
Mating	4 threaded mounting holes, 2 alignment pins

OPERATIONAL

Temperature	Operating: -10°~50°C (14°~122°F)	Storage: -10°~50°C (-14°~122°F)
Ingress protection	IP53	
Shock and vibration	250m/s², 6ms, half-sine, 1,000 shocks/axis; 400m/s², 6ms, saw-tooth, 9 shocks/axis	
Certification	FCC, CE, KCC, REACH, WEEE	
Data connector	HDMI (Interface box available)	
Power connector	Male M8 (4-position, A-coding)	
Indication LED	3 colors	
Interface box	RJ45 (Ethernet), 2.54mm (0.1") pitch header and DB9 (PPS, $GPRMC, camera sync)	

* Specifications subject to change without notice