

Innoviz360 sets a new standard for a high-performance 360° LiDAR for automotive and non-automotive applications. It features a revolutionary 360° scanning design with a pre-configured maximum 64° vertical FOV and ROI location. Its 300m detection range is ideal for autonomous vehicles, shuttles and non-automotive applications, including heavy machinery, smart cities, logistics, construction, and maritime.

Innoviz360 supports pre-configured functionality including FOV scanning configuration with Region of Interest (ROI), pixel summation, frame rate, and up to three reflections.

Y PERFORMANCE METRIC	S						
0.3m-300m 0.05°		x0.05°		360°x64°		0.5-25FPS	
Detection Range	Maximum Angula	ar Resolution (HxV)	Maximum	n Field of View (Hx	(V) Pre-Config	ured Frame Rate	
300-1280	IP6K6K, IP6K9K, IP6K7		115x65mm		-40°	-40°C to 85°C	
Scanning Lines per Frame Ingress F		Protection (E		neter x Height)	Operatin	Operating Temperature	
VIQUE FEATURES		MARKET APPL	ICATIONS				
Enhanced resolution and range							
FOV with configurable ROI location				ROOF			
• Up to 3 reflections		Autonomous Vehicles		Robotaxis and Shu		tles Trucking	
Resilient to sunlight & we	ather conditions	~					
Pixel summation for extended range							
Ethernet/Automotive Eth	ernet interface	Heavy Machine	ery	Smart Cities	Logistics	Construction	
	Y PERFORMANCE METRIC 0.3m-300m Detection Range 300-1280 Scanning Lines per Frame IQUE FEATURES Enhanced resolution and FOV with configurable RC Up to 3 reflections Resilient to sunlight & we Pixel summation for exter Ethernet/Automotive Eth	Y PERFORMANCE METRICS 0.3m-300m 0.05° Detection Range Maximum Angula 300-1280 IP6K6K, IP4 Scanning Lines per Frame Ingress F IIQUE FEATURES Ingress F Enhanced resolution and range FOV with configurable ROI location Up to 3 reflections Resilient to sunlight & weather conditions Pixel summation for extended range Ethernet/Automotive Ethernet interface	AT PERFORMANCE METRICS 0.3m-300m 0.05°x0.05° Detection Range Maximum Angular Resolution (HxV) 300-1280 IP6K6K, IP6K9K, IP6K7 Scanning Lines per Frame Ingress Protection IQUE FEATURES MARKET APPL Enhanced resolution and range MARKET APPL FOV with configurable ROI location Up to 3 reflections Nesilient to sunlight & weather conditions Autonomous Veh Pixel summation for extended range Ethernet/Automotive Ethernet interface	Y PERFORMANCE METRICS 0.3m-300m 0.05°x0.05° Detection Range Maximum Angular Resolution (HxV) Maximum 300-1280 IP6K6K, IP6K9K, IP6K7 Scanning Lines per Frame Ingress Protection IDiar Scanning Lines per Frame Ingress Protection (Diar IQUE FEATURES MARKET APPLICATIONS Enhanced resolution and range MARKET APPLICATIONS FOV with configurable ROI location Ip to 3 reflections Nesilient to sunlight & weather conditions Autonomous Vehicles Pixel summation for extended range Image: I	MARKET APPLICATIONS 0.3 m-300m 0.05°×0.05° 360°×64° Detection Range Maximum Angular Resolution (HxV) Maximum Field of View (Hx 300-1280 IP6K6K, IP6K9K, IP6K77 115x65mm Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protection (Diameter x Height) Scanning Lines per Frame Ingress Protections Ingress Protections Resilient to sunlight & weather conditions Autonomous Vehicles Robotaxis and Protections Pixel summation for extended range Ingress P	AY PERFORMANCE METRICS 0.3m-300m 0.05°x0.05° 360°x64° 0.4 Detection Range Maximum Angular Resolution (HxV) Maximum Field of View (HxV) Pre-Config 300-1280 IP6K6K, IP6K9K, IP6K7 115x65mm -40° Scanning Lines per Frame Ingress Protection (Diameter x Height) Operatin IQUE FEATURES MARKET APPLICATIONS Enhanced resolution and range MARKET APPLICATIONS Image: Construction S Pov with configurable ROI location Up to 3 reflections Maximum Vehicles Robotaxis and Shuttles Pixel summation for extended range Ethernet/Automotive Ethernet interface Image: Construction S Image: Construction S Image: Construction S	



SCANNING CONFIGURATION EXAMPLES¹



AUTONOMOUS VEHICLES



SHUTTLES AND AGVs

NOTES

¹ 10 FPS, Configurable ROI Location

SPECIFICATIONS

INTERFACES

Data, Command and Control	Ethernet (1000BASE-T)/Automotive Ethernet (1000BASE-T1)
Time Synchronization	PTP over Ethernet (1588V2/802.1AS)

LASER

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

OUTPUTS

Point Cloud Attributes	Per reflection: Distance, reflectivity, and confidence	
	Per-pixel: Timestamp, number of reflections, blockage indication, and coordinates of pixel	
	Per frame: Window blockage detection, frame sequence number	
Point Cloud Reflections	Up to 3	
Pixel Latency ¹	<10msec	
Time Stamp	10 µsec accuracy for every pixel	

NOTES

¹ From first laser pulse of the pixel until pixel data is sent over the data interface.

MECHANICAL/ELECTRICAL

Power Consumption		25W (typical)	
Operating Voltage		6.5 to 32VDC	
Dimensions		115x65mm (Diameter x Height)	
Weight		~1kg	
Temperature	Operating	-40°C to 85°C	
	Storage	-40°C to 105°C	
Lifetime		15 years or 300,000km	

