

Benewake (Beijing) Co.,Ltd is a professional provider of Flash LiDAR and LiDAR solutions for various industrial applications.

Since 2015, Benewake has been providing hardware and solutions for drone, robotics, AGV, automobile, ITS with its full range of products and service. With its own intellectual property rights and corresponding certifications, Benewake has established a global sales network around the world.

Benewake also has been dedicated to the R&D and production on automobile LiDAR and contributed to the commercialization of self-driving vehicles.

en.benewake.com



Available Now

High Performance LiDAR **Horn-X2**

Benewake Wake Robots Up



Website QR Code

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Horn-X2

Featured with Benewake advanced optical design, Horn-X2 is a high performance, cutting-edge LiDAR system. With fully consideration of mass production, various application and cost, the Horn-X2 is highlighted with long range, camera-like resolution, combined structure, and high reliability.



High Definition

<0.1°*0.1°angular resolution at high frame rate



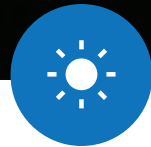
Long Range

More than 200m @7% reflectivity at glaze surface



Large Field of View

FOV configurable by users
FOV up to 90°*30°



Adaptability

IP67, robust at severe application



Railway

In train intelligent detection system, LiDAR could enable self-localization obstacle sensing of the train, thus achieve warning, brake and precision dock.



Airport

Based on LiDAR, an Airport Surface Monitoring system could be built for aircraft flow control, aircraft guidance, tarmac availability management, approaching warning.



Surveillance

By coverage of settled the area, LiDAR keeps monitor the surroundings, offer alarm immediately upon intruders, as well as trigger camera for confirmation.



Shipping

With a large coverage of the surface, LiDAR could scan the surface on deck to offer an instruction for machinery operation.

PERFORMANCE

Reflectivity	@7%
Range	205m (configurable within 300m)
Min. Range	3.1m
Range Accuracy	5cm
Field of View	90°*12.8° (HxV) (configurable within 90°*30°)
Angular Resolution	0.09°*0.083° (HxV)
Frame Rate	7.5FPS

OPTICAL

Laser Class	Class 1 Eye safety (IEC60825-1:2014)
Wavelength	1550nm

OUTPUT

Points per Second	900K
Connection	1000Base-T Ethernet
Outputs	UDP: Distance, Ambient IR, Confidence
Time Stamp	1µsec resolution, GPS synchronized

INTERFACE

Command and Control	UDP
Time Synchronization	PPS plus \$GPRMC message inputs through dedicated connector pins
Features	Windows, Linux & ROS drivers

MECHANICAL/ELECTRICAL

Power Consumption	<60W
Operating Voltage	9-12V, 12V nominal
Dimension(H*W*D)	160*135*120mm
Weight	2.8KG
Mounting	4 threaded mounting holes (M4)

OPERATIONAL

Temperature	Operation: -20°-60°C	Storage: -40°-65°C
Ingress Protection	IP67	
Data Connector	RJ45 (Ethernet)	
Power Connector	DC Jack Φ2.0	
Interface Box	RJ45 (Ethernet), DC Jack Φ2.0, A1257WR-S-4P/A1257WR-S-10P	

The specification are subject to change without prior notice