

XT32M

32-Channel LiDAR

- High Precision, Long Range
- More Echoes, Light Weight
- Proprietary Vertical Integration Technology



XT32M Key Specifications

Instrument Range 0.5 to 300 m	Range Capability 80 m, all channels@10% reflectivity (100 klux, POD>90%)
Range Accuracy ±1 cm (typical)	Range Precision 0.5 cm (1σ, typical)
Vertical FOV 40.3° (-20.8° to 19.5°)	Vertical Resolution 1.3°
Frame Rate 5 Hz, 10 Hz, 20 Hz	Horizontal Resolution 0.09° (5 Hz) / 0.18° (10 Hz) 0.36° (20 Hz)
Ingress Protection IP6K7	Operating Temperature -20°C to 60°C
Weight 0.49 kg	Dimensions Height: 75.00 mm Top/Bottom: Φ89.0 / 93.0 mm
Power Consumption 10 W (typical)	Operating Voltage DC 9 to 36 V
Clock Source GPS / PTP	Data Points Generated Up to 3 returns Triple Return: 1,920,000 points/sec

XT32M Applications



Drones



Vehicles



Indoors



XT32M

Product Superiority



Outstanding Precision

Superior to comparable products on the market.



Light And Small

XT32M weighs only 490 g, which is only about 60% of the weight of XT32, and is smaller in size, making it more suitable for drones.



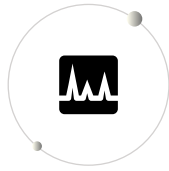
Strong Range Capability

Range detection up to 300 m, POD>90% when detecting 10% reflectivity targets at 80 m (all channels), which increases the flight altitude and recognition rate of application scenarios such as power line inspection.



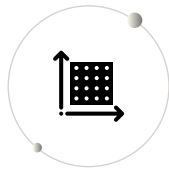
Interference Rejection

Every pulse has its own 'ingerprint', rejecting noise when multiple LiDARs operate closely together.



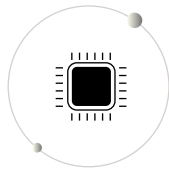
More Returns

Up to 3 returns, and more details of trees, ground, etc. can be obtained during SLAM for natural.



Wider VFOV

The XT32M's VFOV has been expanded from XT32's 31° to 40.3°, so the field of view is wider. If the flying altitude is the same, the field of view can be increased by 32%.



Proprietary Vertical Integration Technology

The lasers' transmitting and receiving systems are based on Hesai's proprietary vertical integration technology, greatly improving LiDAR performance and reducing costs and production complexity.

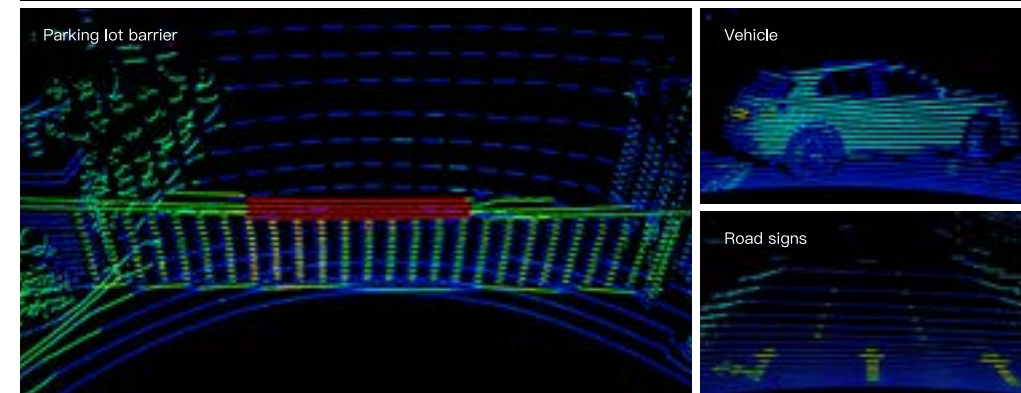
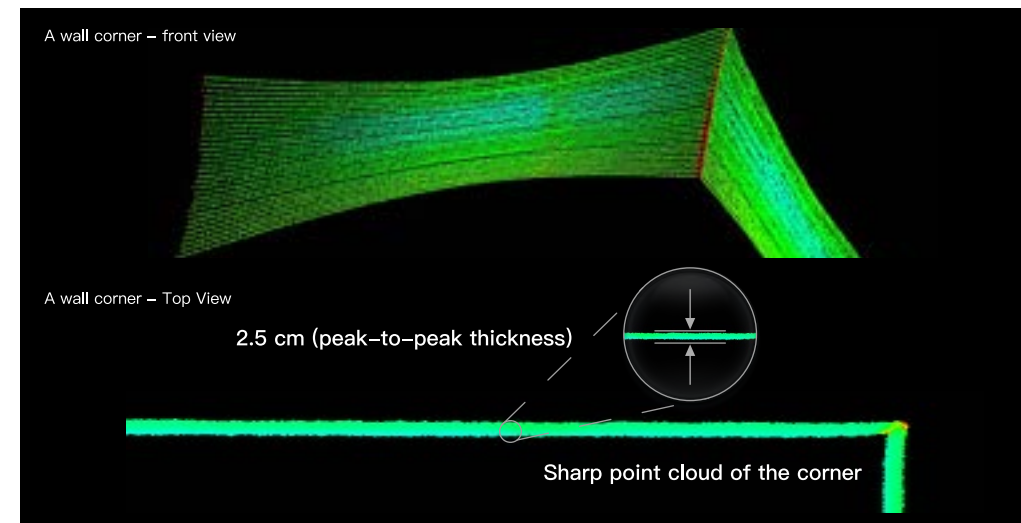
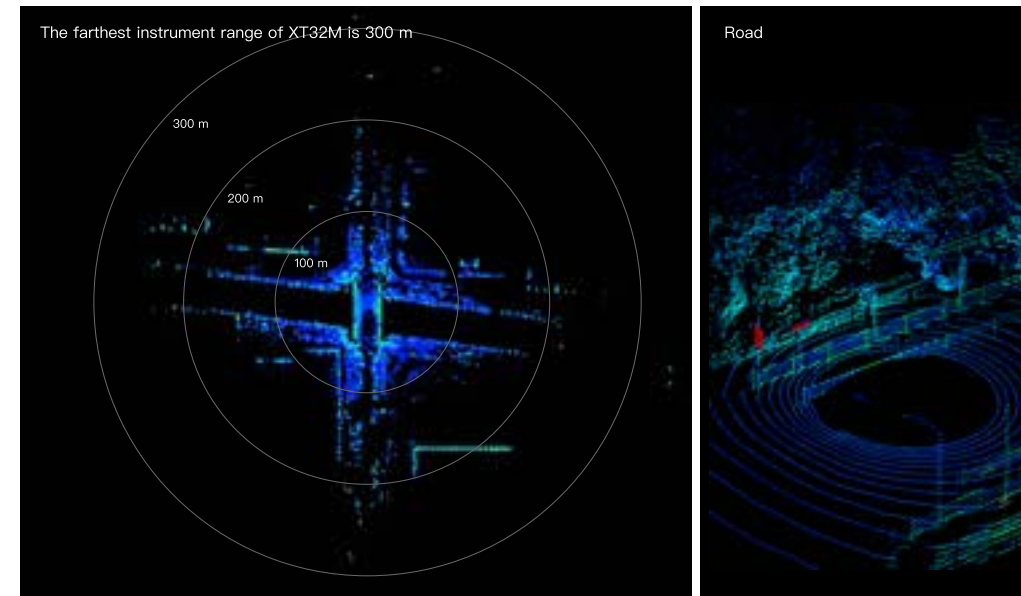


High-Quality Reflectivity

High accuracy and consistency, greater dynamic range, and provides more accurate reflectivity information.

XT32M

Point Cloud



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