XT32M2X

32–Channel LiDAR

- High Precision, Long Range
- More echoes, Light Weight
- Proprietary LiDAR ASICs

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

Applications
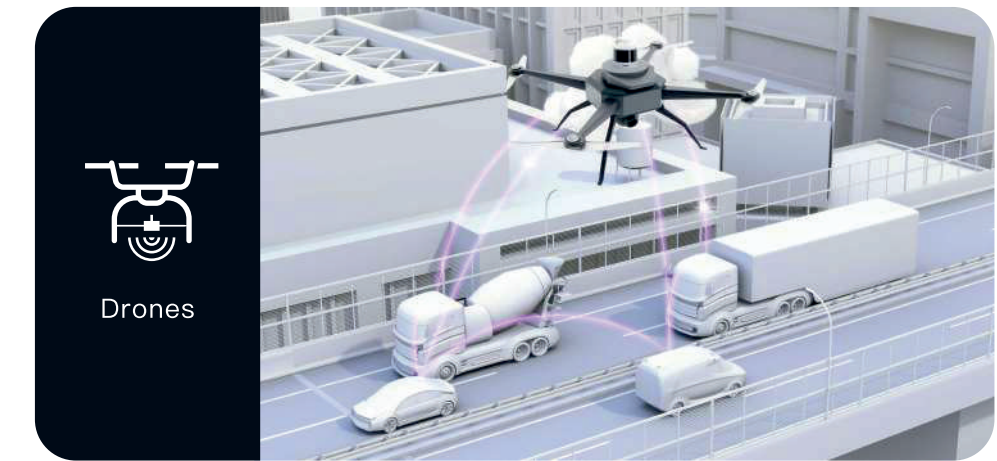
Drones

Vehicles

Indoors

Product Superiority

Outstanding Precision

Superior to comparable products on the market.

More Echoes

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

Light And Small

XT32M2X weighs only 490g, which is only about 60% of the weight of PandarXT, and is smaller in size, making it more suitable for drones.
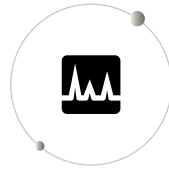
Wider VFOV

The XT32M2X's VFOV has been expanded from PandarXT'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%.

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.
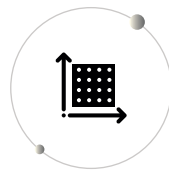
Dedicated Chipsets

The lasers' transmitting and receiving systems are based on Hesai's self–devel–oped ASICs, greatly improving LiDAR performance and reducing costs and production complexity.

Interference Rejection

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

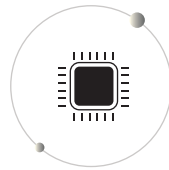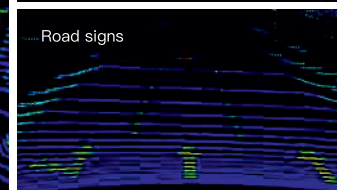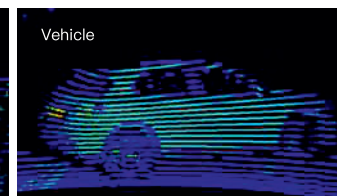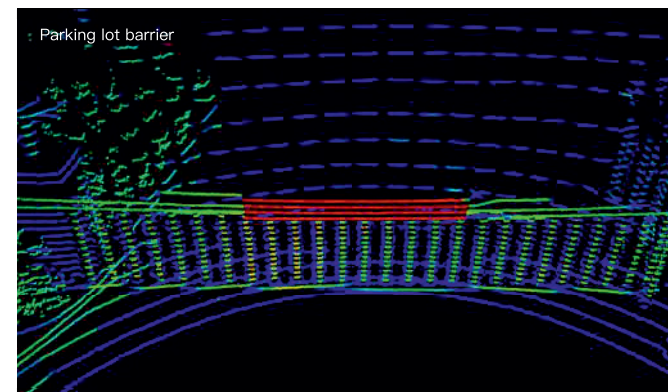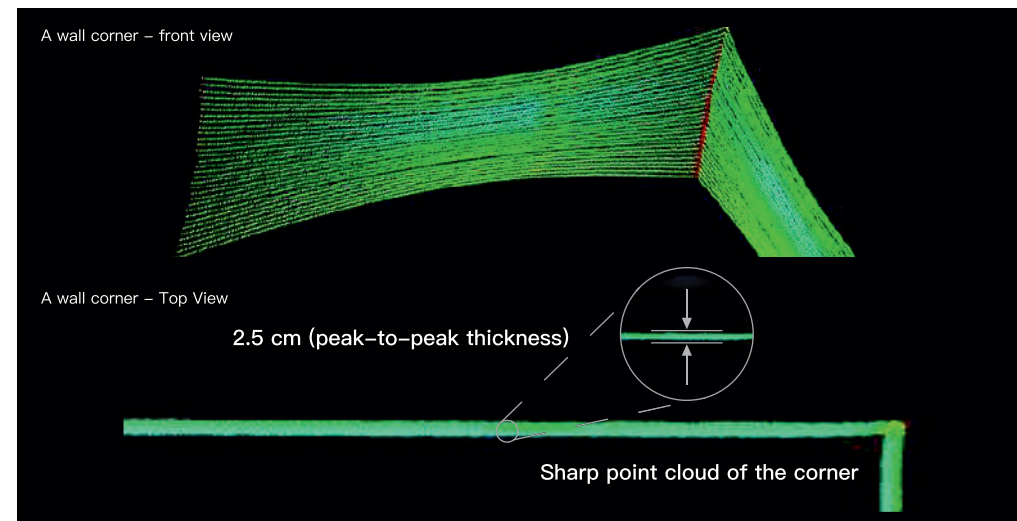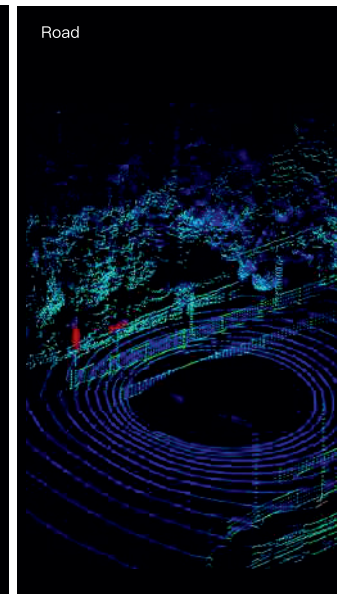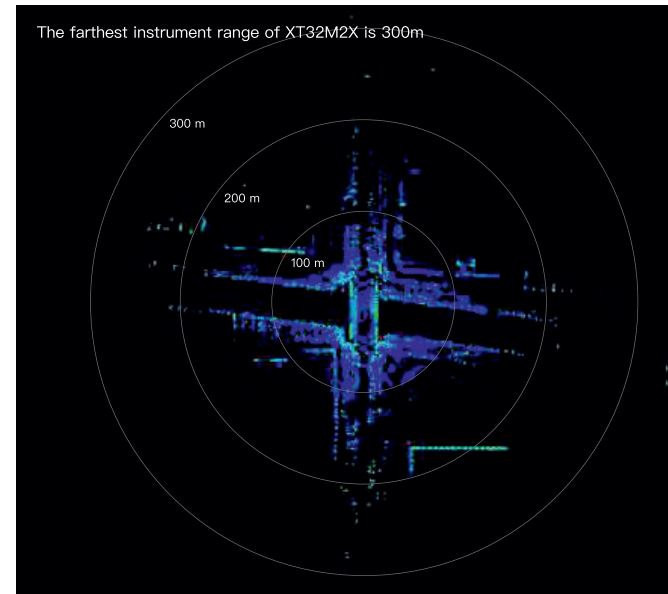### High–Quality Reflectivity

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

Point Cloud

The farthest instrument range of XT32M2X is 300m

300 m

200 m

100 m

Road

A wall corner – front view

A wall corner – Top View

2.5 cm (peak–to–peak thickness)

Sharp point cloud of the corner

Parking lot barrier

Vehicle

Road signs

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