

# 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





# XT32M2X

## Product Superiority



### Outstanding Precision

Superior to comparable products on the market.



### 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.



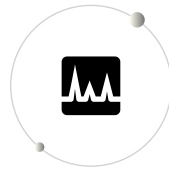
### Strong Range Capability

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.



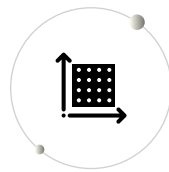
### Interference Rejection

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



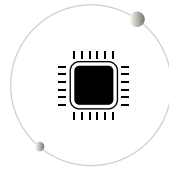
### More Echoes

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



### 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%.



### Dedicated Chipsets

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

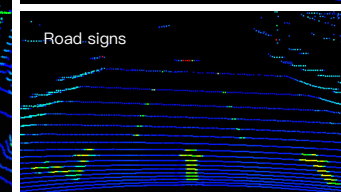
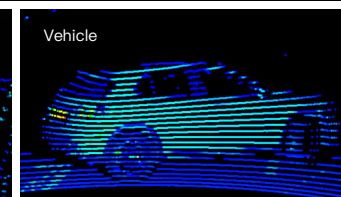
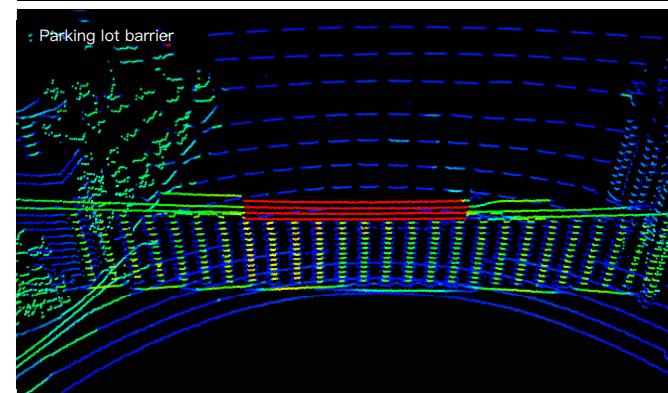
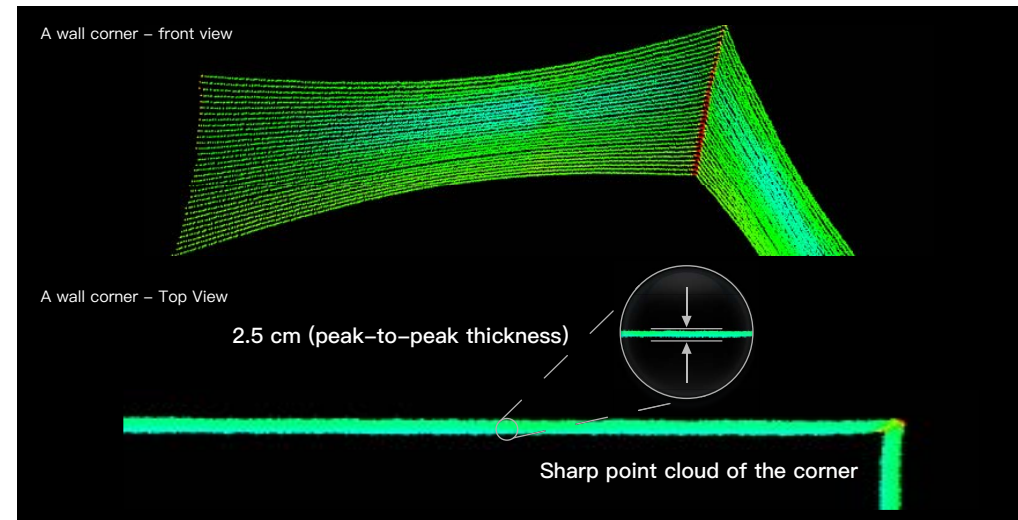
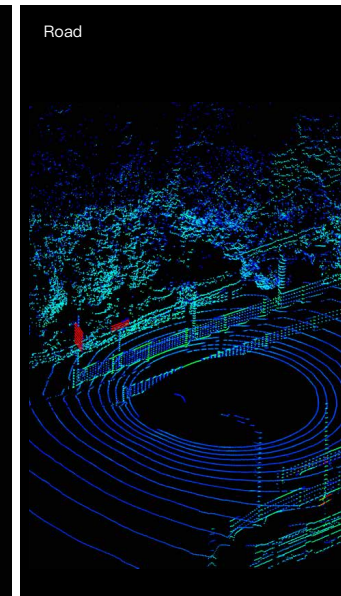
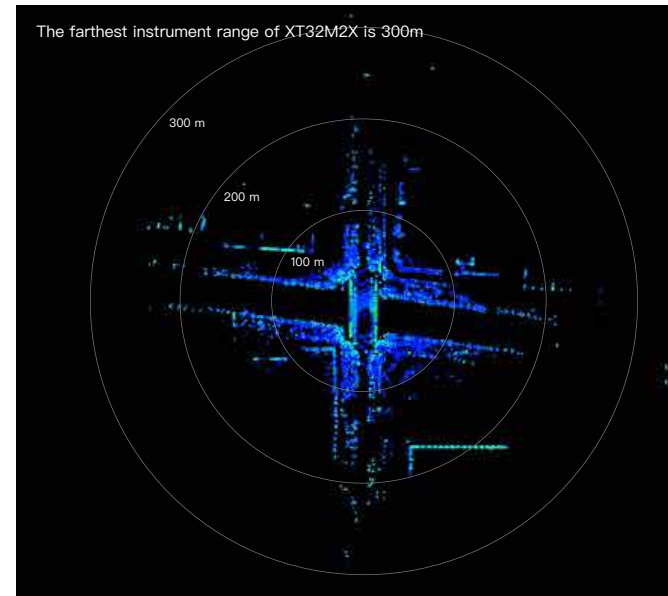


### High-Quality Reflectivity

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

# XT32M2X

## Point Cloud



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Website QR Code