

PandarXT-16

16-Channel Mid-Range LiDAR

- Minimum range of zero
- High precision
- Proprietary LiDAR ASICs



PandarXT-16 Key Specifications

Instrument Range 0.05 to 120 m	Range Capability 80 m @10% reflectivity (Channels 5 to 12) 50 m @10% (Channels 1 to 4, 13 to 16) (100 klux, POD>90%)
Range Accuracy ±1 cm (typical)	Range Precision 0.5 cm (1σ, typical)
Vertical FOV 30° (-15° to 15°)	Vertical Resolution 2°
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 65°C
Weight 0.8 kg	Dimensions Height: 76.00 mm Top/Bottom: Φ100.0 / 103.0 mm
Power Consumption 9 W	Operating Voltage DC 9 to 36 V
Clock Source GPS / PTP	Data Points Generated Single Return: 320,000 points/sec Dual Return: 640,000 points/sec

PandarXT-16 Applications



Unmanned
Logistics



Autonomous
Shuttles

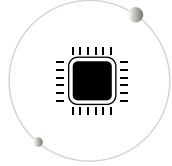


Factory AGVs



PandarXT-16

Product Superiority



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.



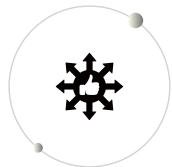
Minimum Range of Zero

PandarXT-16 continuously outputs valid point cloud even objects directly touch the LiDAR's lens. This enables the self-detection of lens smear and occlusion.



Interference Rejection

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



Reliability

Have passed strict reliability tests including High-temperature operation, Low-temperature wakeup+operation, Thermal Shock/Air-to-Air, Vibration with Thermal Cycling, Mechanical Shock, Humid Heat Cyclic, Frost, Water and Dust Proof, and Shipping Vibration. Robust and reliable in various operation environments.



Outstanding Precision

Superior to comparable products on the market.



Strong Range Capability

Range detection up to 120 m, POD>90% when detecting 10% reflectivity targets at 80 m (middle 8 channels).

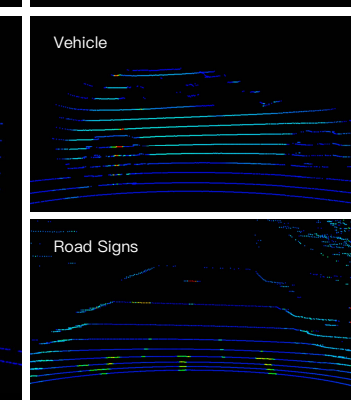
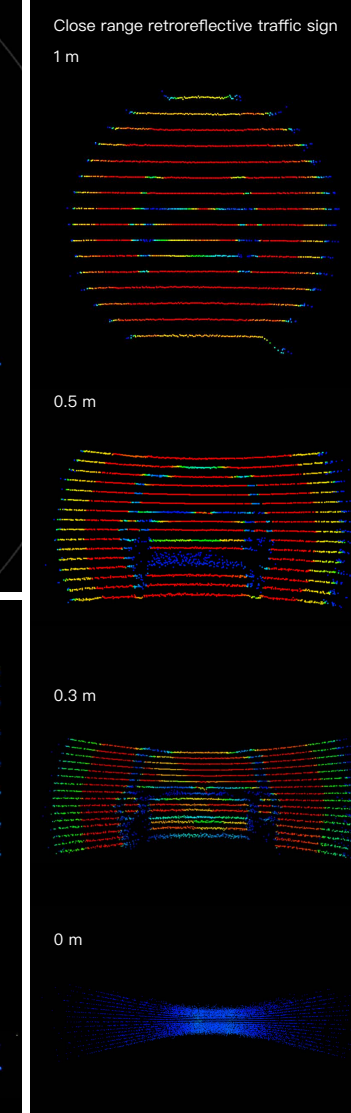
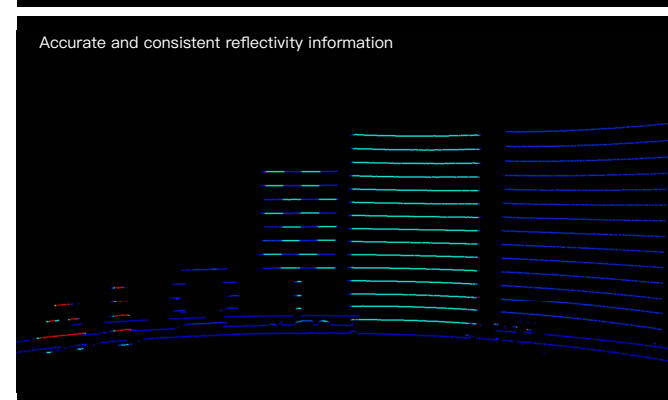
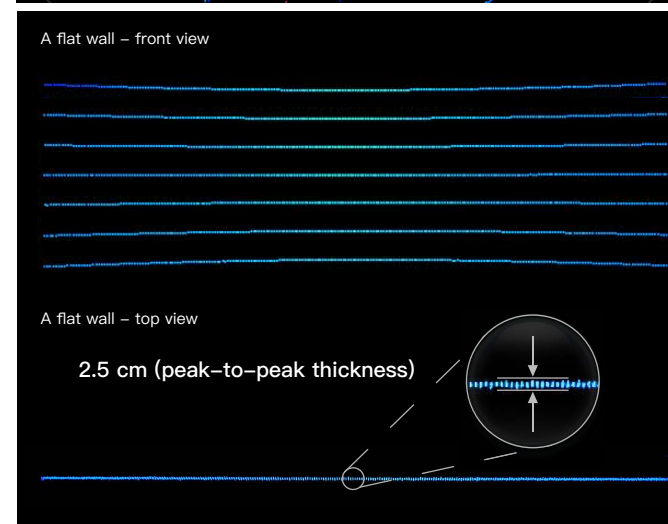
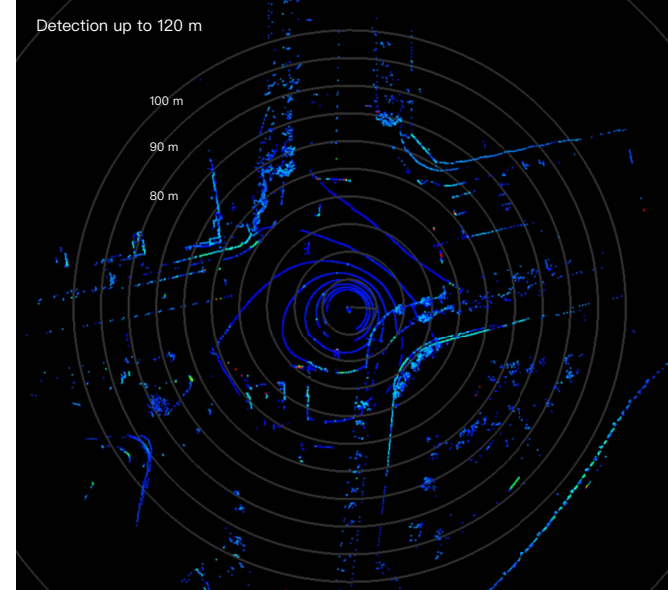


High-Quality Reflectivity Information

High accuracy and consistency, greater dynamic range. PandarXT-16 provides more accurate reflectivity information.

PandarXT-16

Point Cloud



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