PandarXT

32-Channel Mid-Range LiDAR

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

Key Specifications

Range 0 m ~ 120 m (0 m, calculated from LiDAR's enclosure)	Range Capability 80 m@10% reflectivity (Under 100 klux, POD>90%)
Accuracy ±1 cm (typical)	Precision 0.5 cm (1σ, typical)
Vertical FOV 31° (-16°~15°)	Vertical Resolution 1°
Frame Rate 5 Hz, 10 Hz, 20 Hz	Horizontal Resolution 0.18° @10 Hz
Ingress Protection IP6K7	Operating Temperature -20°C ~ 65°C
Weight 0.8 kg	Dimensions Hight: 76.00 mm Diameter: 103.0 mm
Power Consumption 10 W	Operating Voltage DC 9 ~ 36 V
Clock Source GPS / PTP	Data Points Generated Single Return: 640,000 points/sec Dual Returns: 1,280,000 points/sec

Applications

Unmanned Logistics

Autonomous Shuttles

Factory AGV

Mapping

Security

PandarXT

Product Superiority

Dedicated Chipsets

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

Outstanding Precision

PandarXT precision (1σ) is up to 0.5 cm; greater precision performance than comparable products on the market

Minimum Range of Zero

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

Higher Resolution

Double the number of lasers and resolution compared with typical mid-range LiDARs (16 channels)

Strong Range Capability

Range detection up to 120 m, POD>90% when detecting 10% reflectivity targets at 80 m (middle 16 channels)

Interference Rejection

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

High-Quality Reflectivity Information

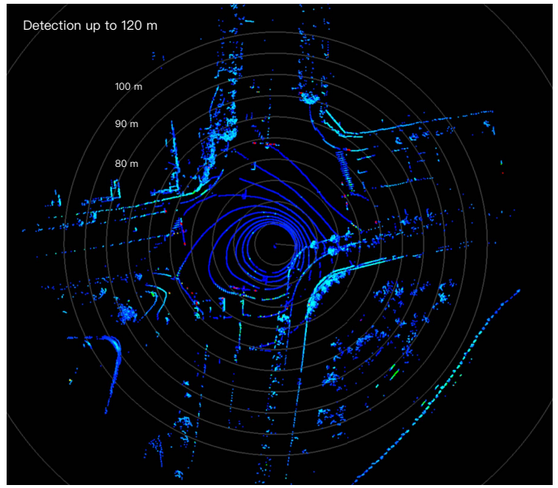
High accuracy and consistency, greater dynamic range. PandarXT provides more accurate reflectivity information for algorithms

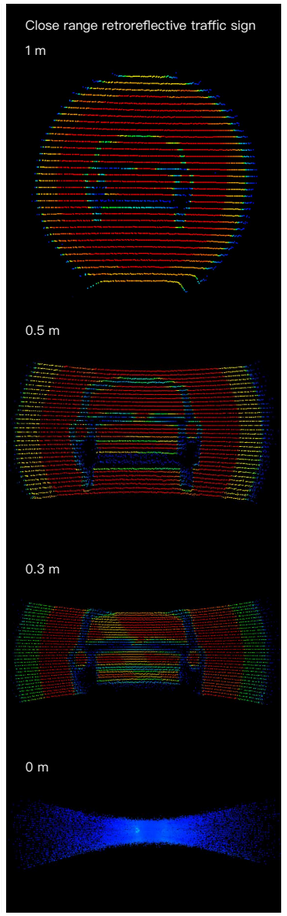
Reliability

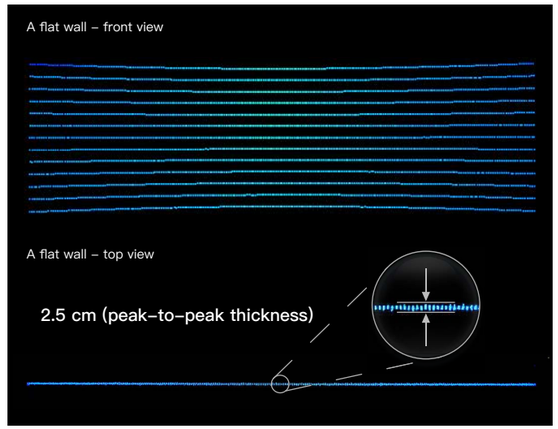
PandarXT has passed strict reliablity tests including High temperature operation, Low temperature wakeup+operation, Thermal Shock/Air-to-Air, Vibration with Thermal Cycling, Mechanical Shock, Humid Heat Cyclic, Frost, Water and Dust Proof, and Shipping Vibration. Robust and reliable in any operational environment.

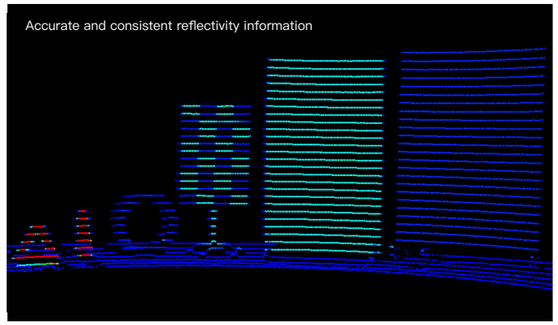
PandarXT

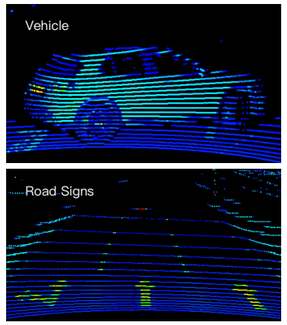
Point Cloud

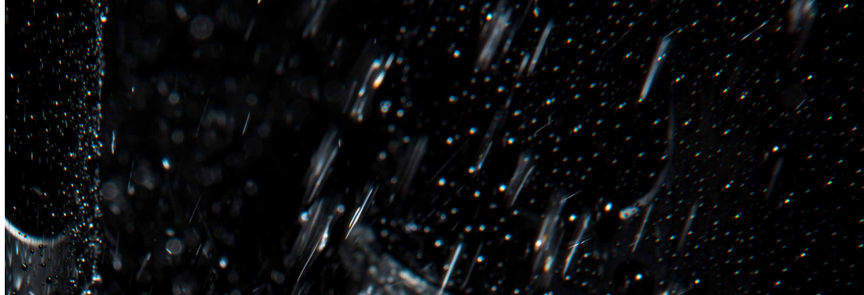












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