

PandarXT

32-Channel Mid-Range LiDAR

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



PandarXT 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 (1 σ , 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

PandarXT Applications



Unmanned
Logistics



Autonomous
Shuttles



Factory AGV



Mapping

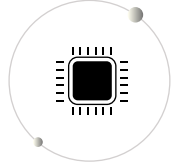


Security



PandarXT

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



Strong Range Capability

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



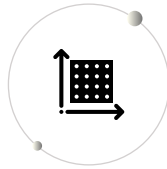
High-Quality Reflectivity Information

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



Outstanding Precision

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



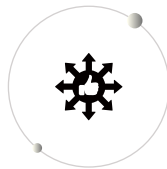
Higher Resolution

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



Interference Rejection

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

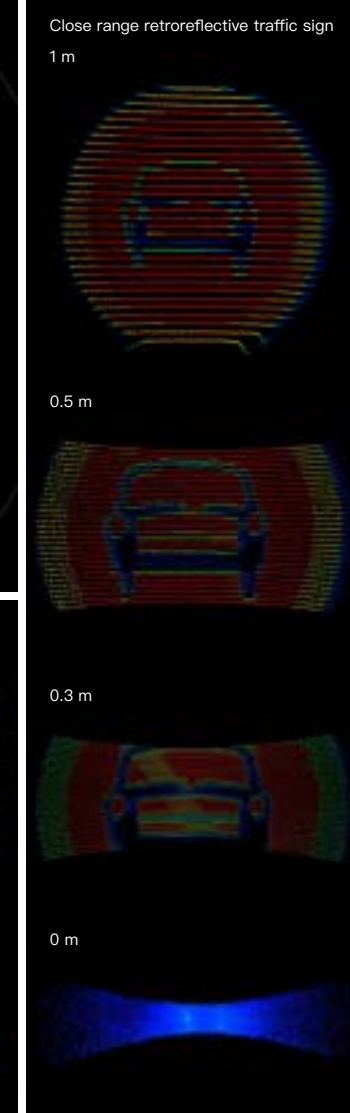
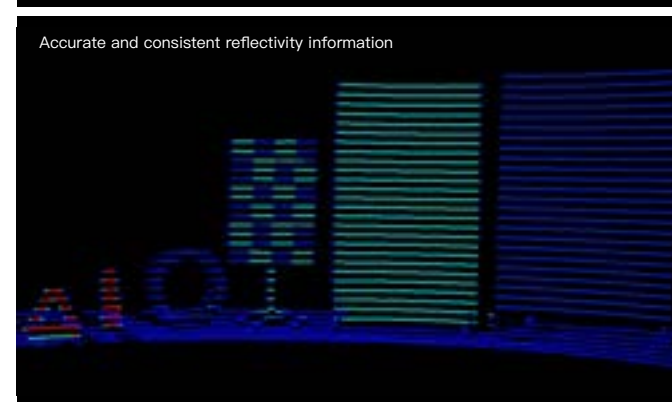
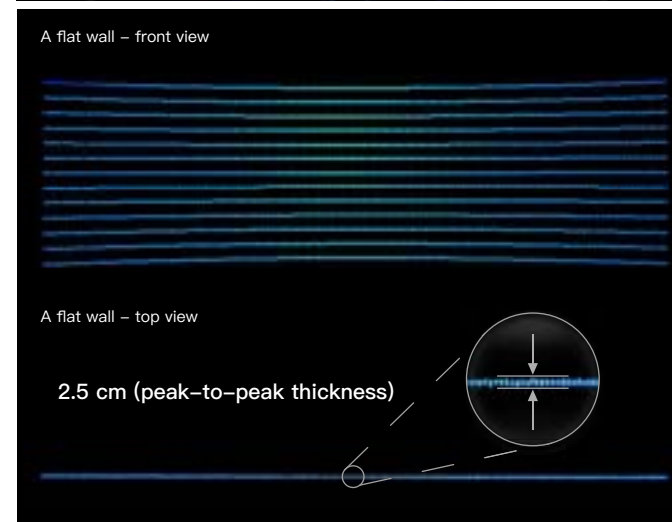
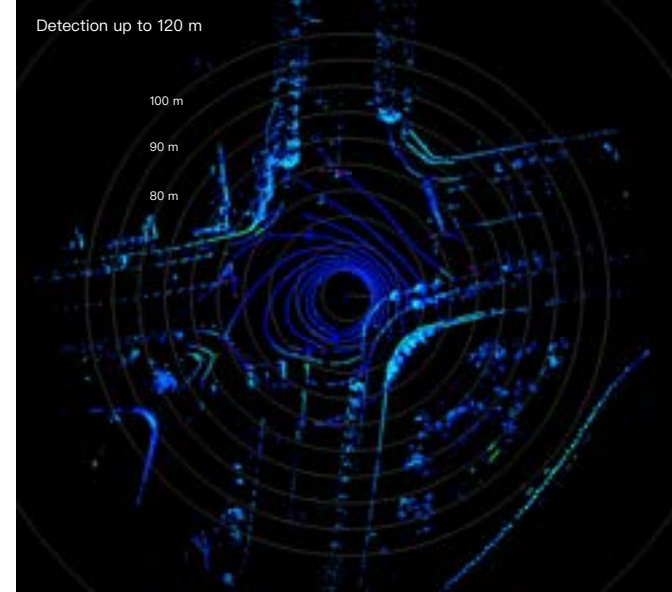


Reliability

PandarXT has 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 any operational environment.

PandarXT

Point Cloud



Hesai Technology Co., Ltd.

Phone: 400-805-1233

Sales: sales@hesaitech.com

Website: www.hesaitech.com

Address: Building L2, Hongqiao World Centre, Shanghai



Website QR Code



WeChat QR Code