XT32

32-Channel Mid-Range LiDAR

- No blind spot
- High precision
- Proprietary LiDAR ASICs

XT32

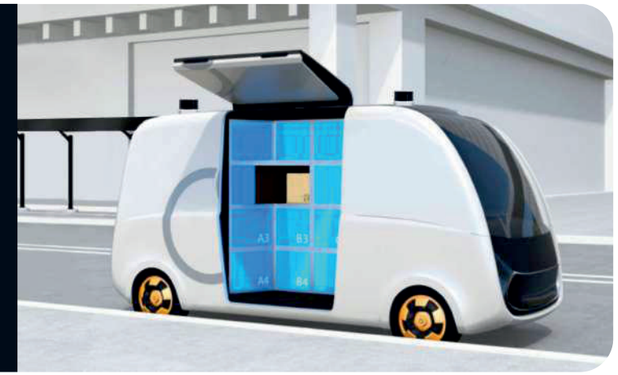
Key Specifications

Instrument Range 0.05 to 120 m	Range Capability 80 m @10% reflectivity (Channels 9 to 24) 50 m @10% (Channels 1 to 8, 25 to 32) (100 klux, POD>90%)
Range Accuracy ±1 cm (typical)	Range Precision 0.5 cm (1σ, typical)
Vertical FOV 31° (-16° to 15°)	Vertical Resolution 1°
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 10 W (typical)	Operating Voltage DC 9 to 36 V
Clock Source GPS / PTP	Data Points Generated Single Return: 640,000 points/sec Dual Return: 1,280,000 points/sec

XT32

Applications

Unmanned Logistics



Autonomous Shuttles

Factory AGVs

XT32

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.

Outstanding Precision

Superior to comparable products on the market.

Minimum Range of Zero

XT32 continuously outputs valid point cloud even when objects directly touch the LiDAR's cover lens. This enables the self-detection of lens smear and occlusion.

Higher Resolution

Double the number of lasers and the 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

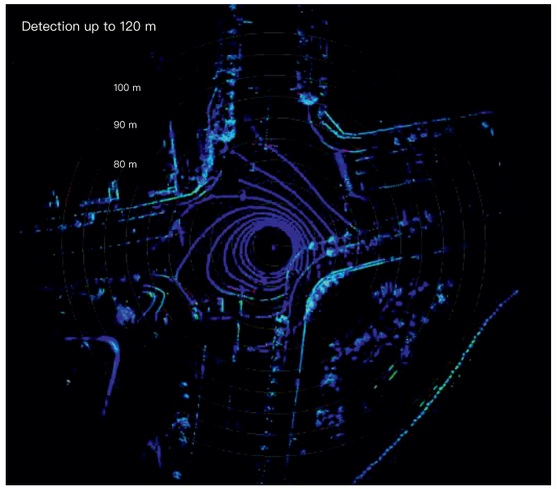
High accuracy and consistency, greater dynamic range, and provides more accurate reflectivity information.

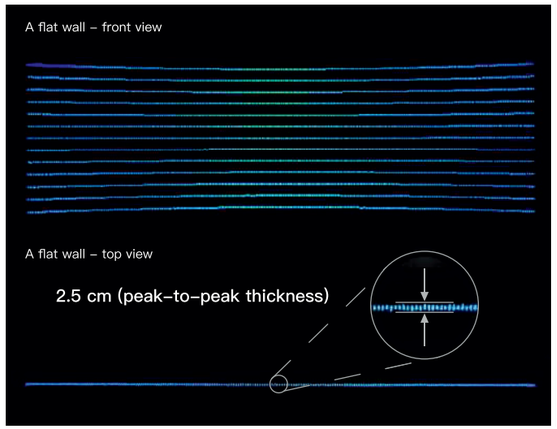
Reliability

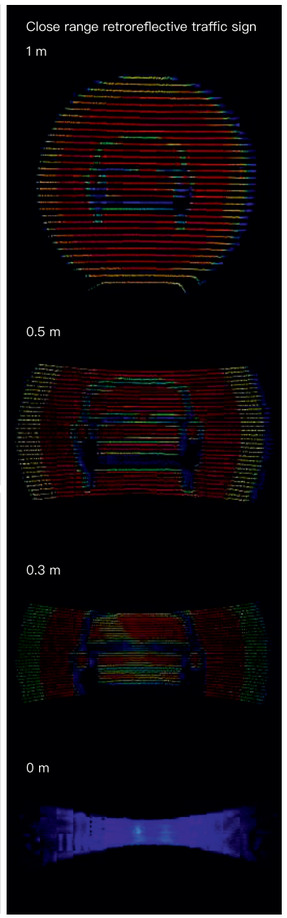
Have passed strict reliability tests including High-temperature operation, Low-temperature wakeup+operation, Thermal Shock/Air-to-Air, Vibration with Thermal Cycling, Mechanical Shock, Humid Heat Cyclic, Frost, Water and Dust Proof, and Shipping Vibration. Robust and reliable in various operation environments.

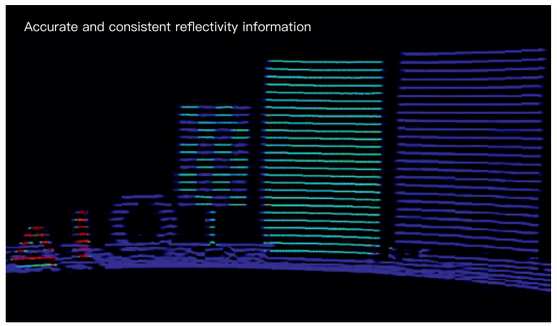
XT32

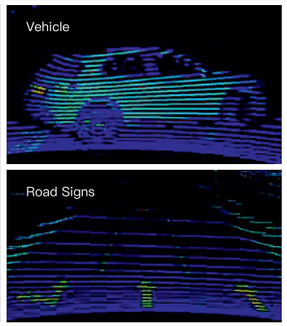
Point Cloud











AcomaTEK

Via Branze, 45, 25123 Brescia (BS)

+39 327 917 8988

sales@acomatek.it

www.acomatek.it

Website QR Code