

AT128

Automotive Ultra-High Resolution Long-Range Lidar

- 200 m @10% range capability
- 1.53 million points/s
- Small form factor



HESAI

AT128

Higher Performance, Higher Affordability

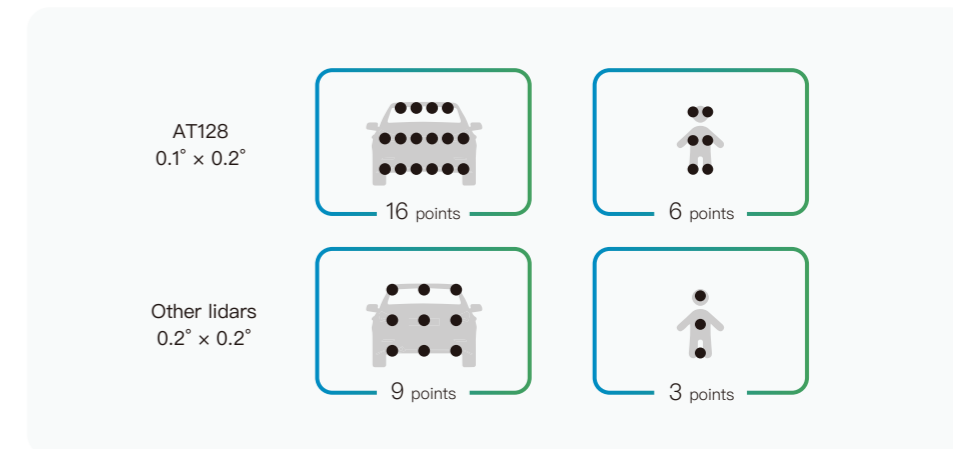
Hesai has successfully integrated hundreds of components into a small and compact lidar.

The proprietary technology increases detection accuracy, consistency, and reliability for mass production, while also significantly reducing cost.

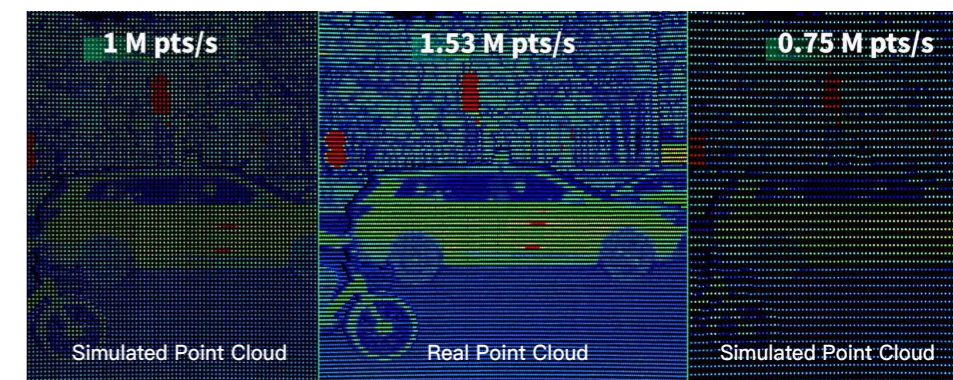
Small Form Factor, Seamless Vehicle Integration



Ultra-High Point Density, Image-Like Resolution



* Lidar is 200 m away from the target.



AT128 Generates Over 1.53 Million Point Rate

Automotive-Grade Reliability for Mass-Production

All key components meet AEC-Q and industry standards. More than 50 design validation (DV) tests, fulfilling international OEM standards for electrical, mechanical, climatic, sealing, material, and EMC tests.

- UV Aging
- IP6KX Dust Resistance
- High-Temperature Operation
- Low-Temperature Wakeup
- Humid Heat Cyclic
- Mechanical Shock
- Salt Spray
- IPX7 & IPX9K Water Resistance
- Thermal Shock with Water Splash
- Vibration with Thermal Cycling

Key Specifications

Pixel Resolution
1200 x 128

Range Capability
200 m @ 10% reflectivity

Point Rate
Single Return: 1,536,000 points/s
Dual Return: 3,072,000 points/s

Field of View
120° (H) x 25.4° (V)

Resolution
0.1° (H) x 0.2° (V)

Frame Rate
10 Hz, 20 Hz

Dimensions (W x D x H)
137 mm x 112 mm x 48 mm

Power Consumption
18 W

Other Features



Interference Rejection

Proprietary technology to individually encode each laser beam, rejecting interference from all other lidars.



Functional Safety

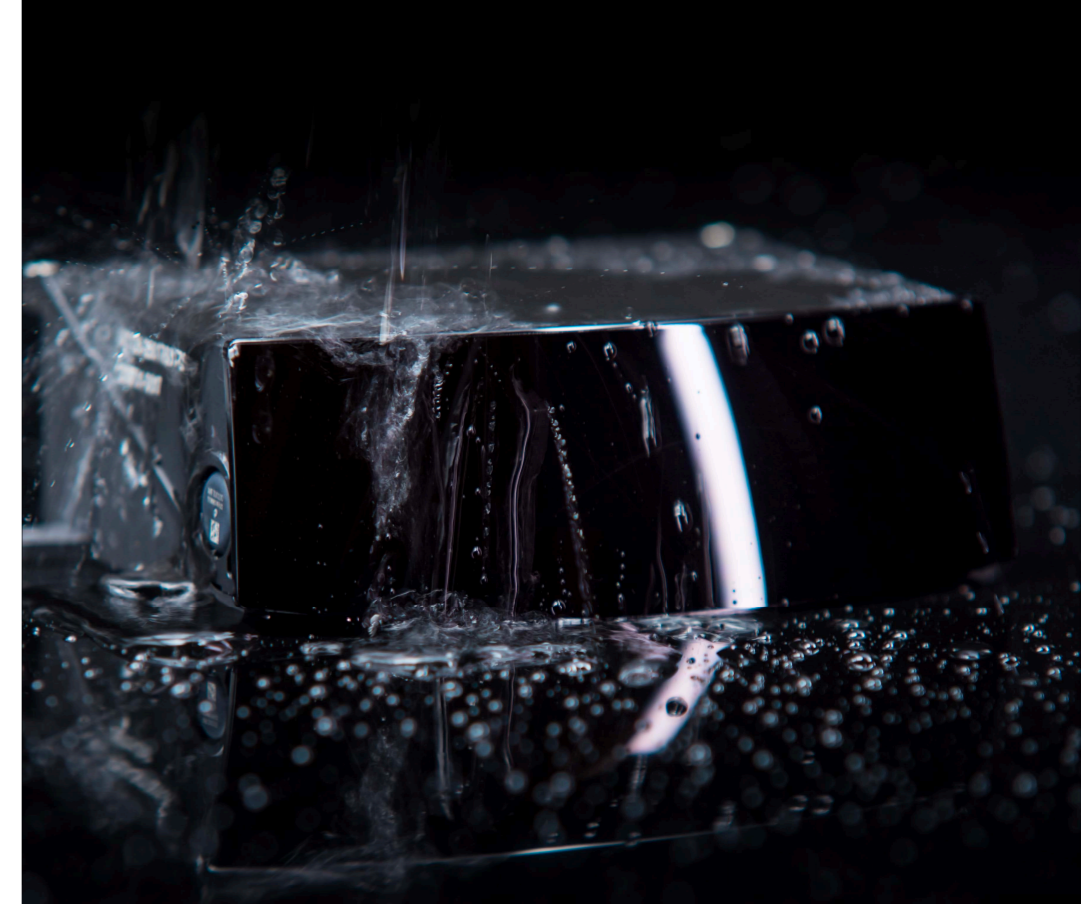
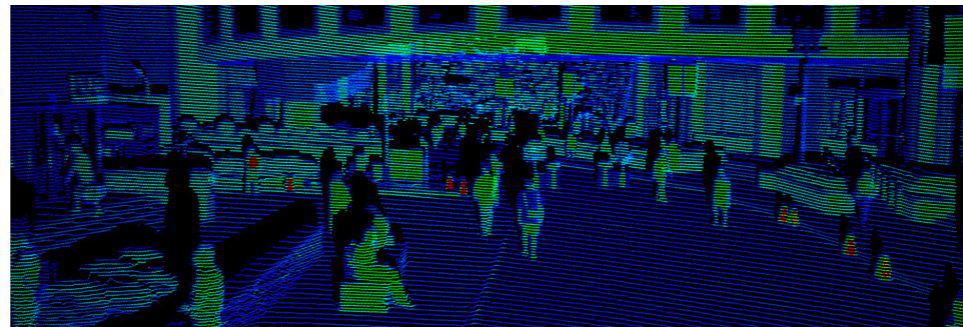
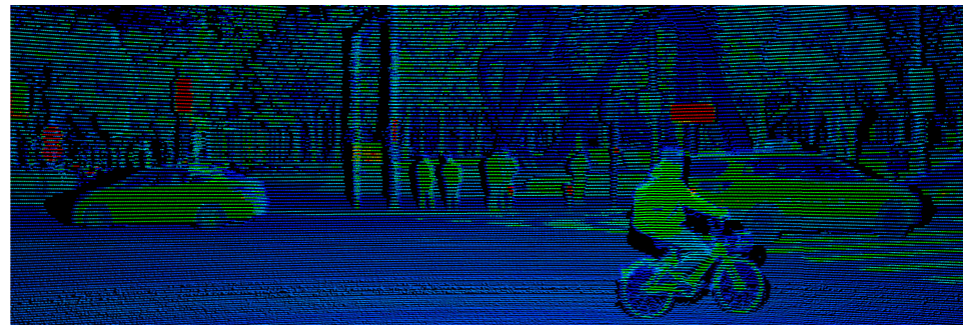
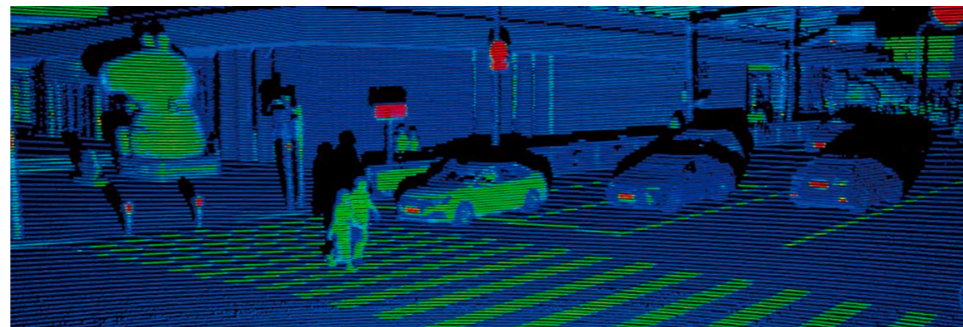
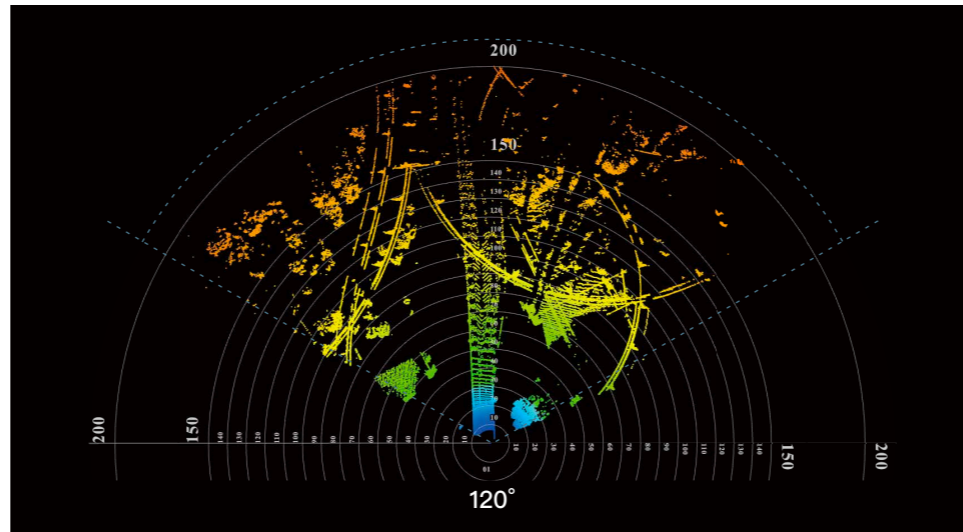
ISO 26262 ASIL B compliant
Comprehensive safety mechanisms, diagnostic coverage >90%
FHTI (Fault Handling Time Interval) ≤100 ms.



Cybersecurity

Product development process rigorously follows ISO 21434 standards, performing 100% overall cybersecurity risk management, with over 10 cybersecurity mechanisms.

Point Cloud



Hesai Technology Co., Ltd.

Contact Us

sales@hesaitech.com
+86 400-805-1233 (China)
+1 650-655-7837 (US)

Shanghai Office

Building L2-B, Hongqiao World Center, Shanghai

US Office

3500 W Bayshore Rd., Palo Alto, CA 94303

European Office

Charles-Lindbergh-Platz 1
71034 Böblingen, Germany



Website QR Code



WeChat QR Code