

FT120

120-Channel,
Fully Solid-State,
Near-Range Blind Spot Lidar

- Automotive Grade
- Designed for ADAS Series Production Vehicles



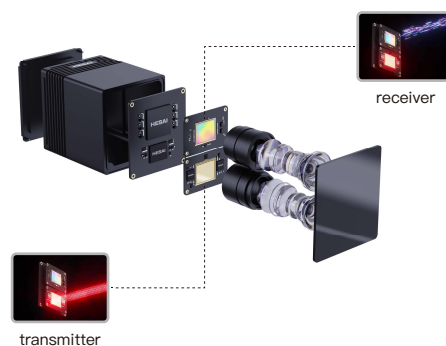
HESAI

Product Highlights

Fully Solid State

Hesai has developed proprietary fully solid-state E-Scanning technology to dynamically adjust scanning patterns based on 2D addressable detector array.

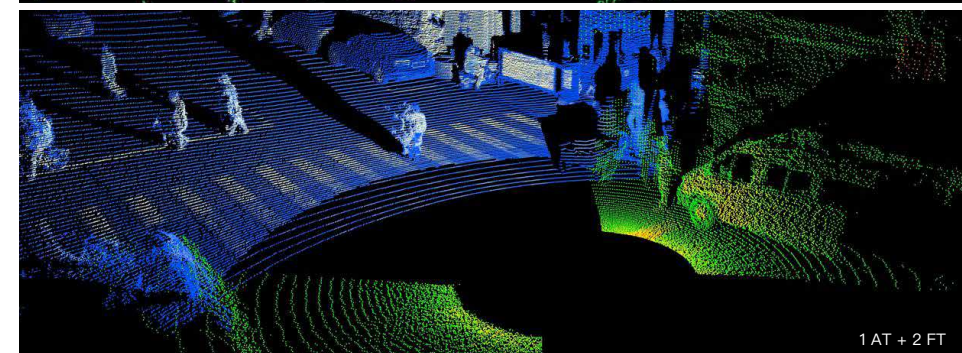
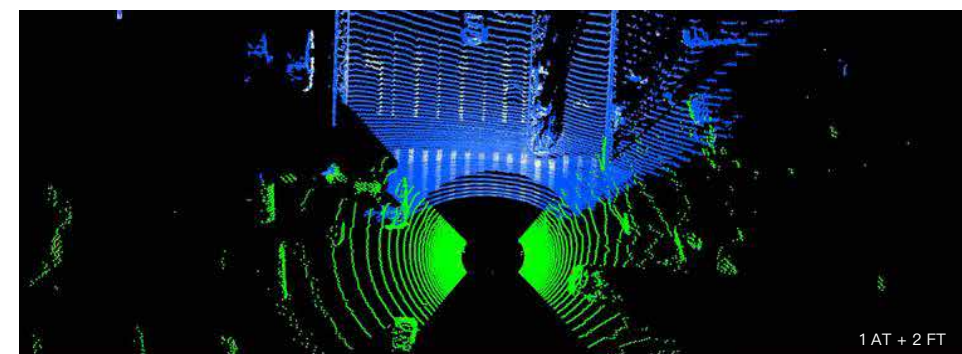
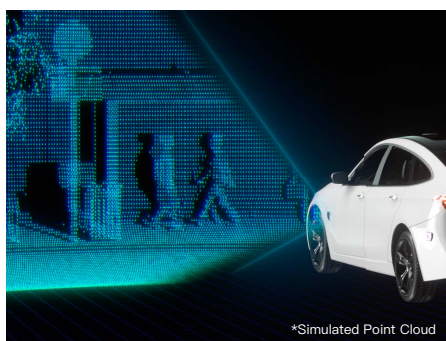
FT120 has no moving parts inside, which significantly increases its reliability, and enhances its efficiency and consistency for mass production.



Ultra-Wide FOV Zero Blind Spot

100° x 75°

FT120 can perceive surrounding objects such as street signs, railings, small animals, traffic cones, crosswalks in real-time, providing essential blind spot perception for the vehicle.

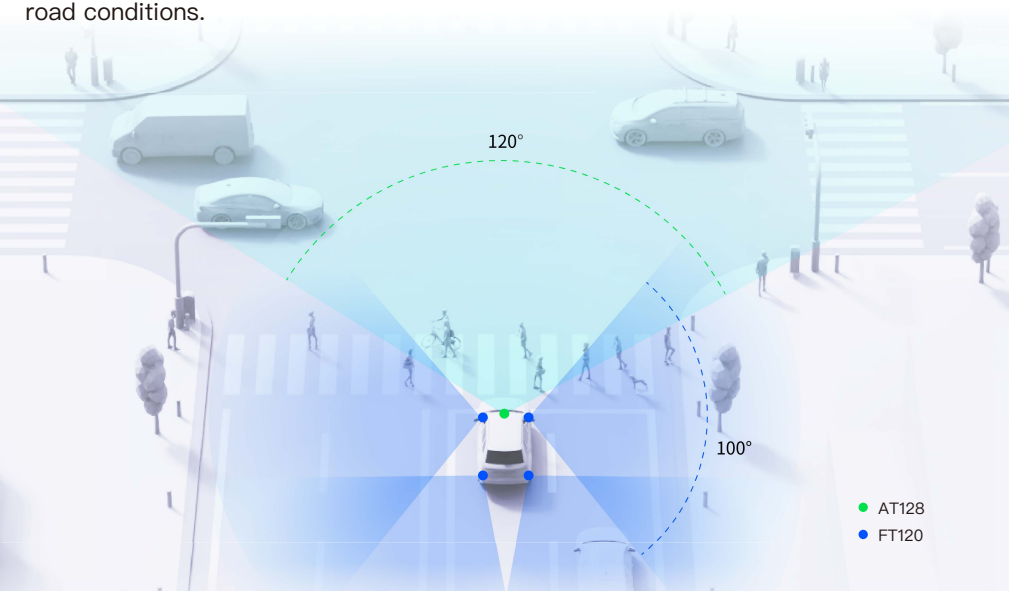


Key Specifications

0.05 m to 100 m	100° (H) x 75° (V)	160 (H) x 120 (V)	
Instrument Range	FOV	Overall Resolution	
192,000 pts/s (single return) 384,000 pts/s (dual return)	50.0 x 70.0 mm	0.625° (H) x 0.625° (V)	
Data Points Generated	Minimum Surface Window	Angular Resolution	
Typ.10 Hz (5 to 60 Hz)	68.0 x 90.0 x 75.0 mm	5 cm (1σ)	IP6K9K & IPX7
Frame Rate	Size (W x D x H)	Precision	Ingress Protection

Long and Short Range Combination

FT120 can be installed around the vehicle, combining with the long-range main lidar to provide an all-around 3D perception and ensure safe driving in complex urban road conditions.



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