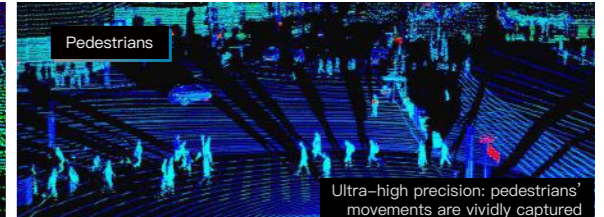
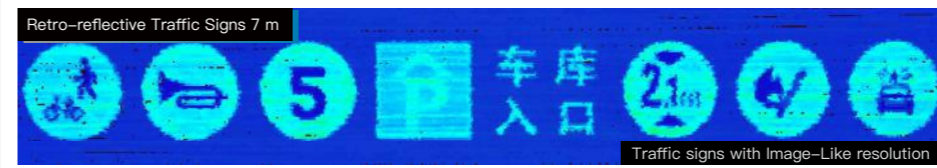
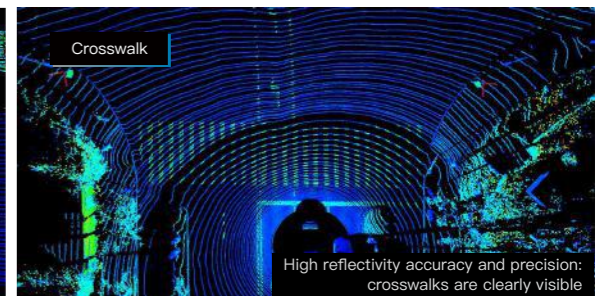
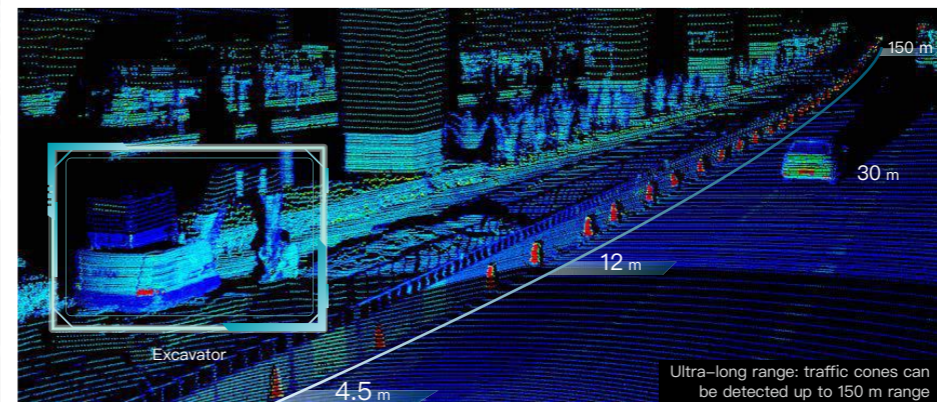
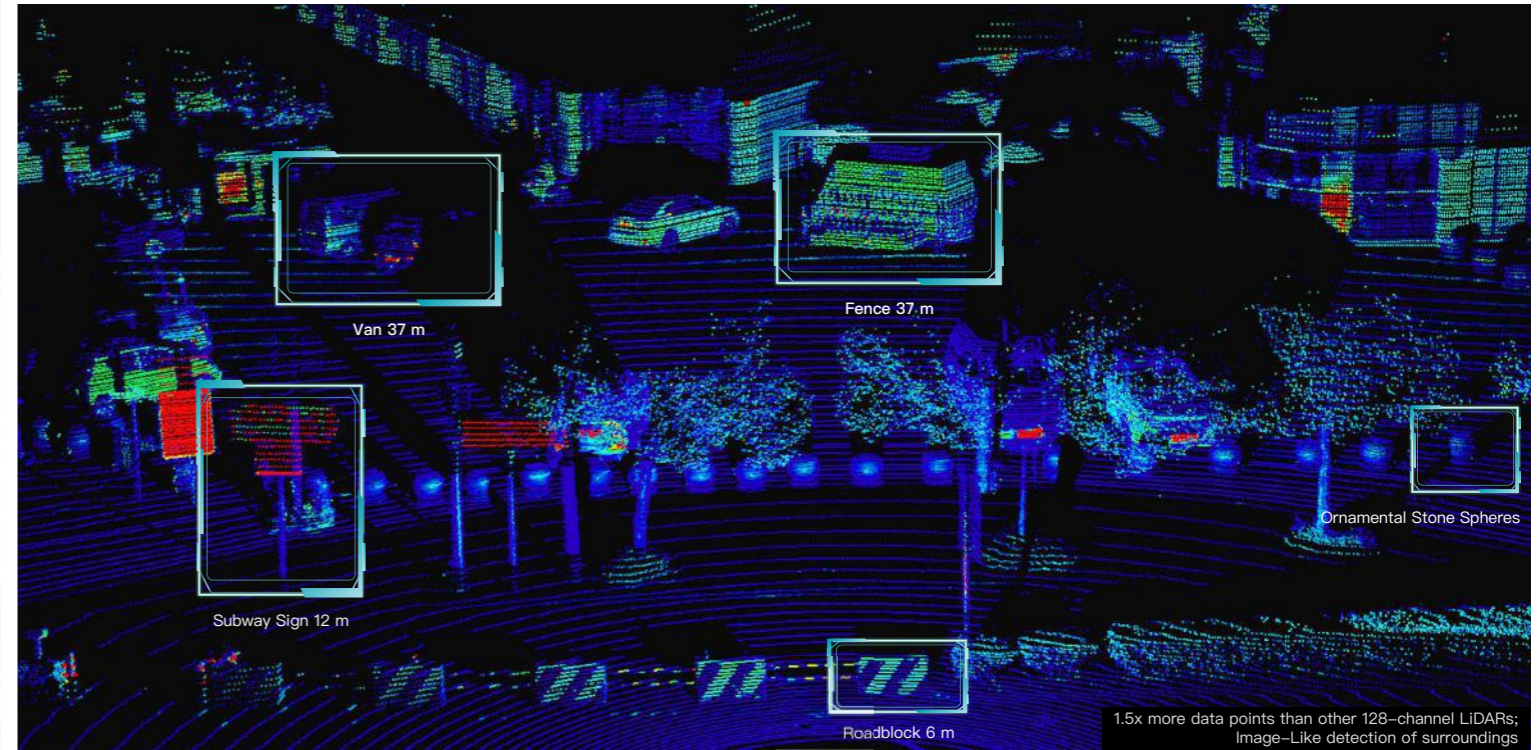


Pandar128

128-Channel
Image-Like Resolution
High-Performance LiDAR



Pandar128 Point Cloud



Website QR Code

Hesai Technology Co., Ltd.

400-805-1233

sales@hesaitech.com

www.hesaitech.com

Building L2, Hongqiao World Centre, Shanghai



WeChat QR Code

Pandar128

Key Specifications

0.3 m ~ 200 m <small>(at 10% reflectivity)</small>	±5 cm (0.3 ~ 1 m) ±2 cm (1 ~ 200 m)
Measurement Range ●	Range Accuracy ●
0.1° (10 Hz) 0.2° (20 Hz)	40° (-25° ~ +15°)
Horizontal Resolution ●	Vertical FOV ●
Minimum 0.125° (-6° ~ +2°)	Single Return: 3,456,000 points/sec Dual Return: 6,912,000 points/sec
Vertical Resolution ●	Data Points Generated ●
DC 9 V ~ 48 V	27 W <small>(at 0.1° horizontal resolution)</small> 20 W <small>(at 0.2° horizontal resolution)</small>
Operating Voltage ●	Power Consumption ●
-40°C ~ 85°C	Hight: 123.7 mm Diameter: 118.0 mm <small>(Top, Bottom)</small> 116.0 mm Weight: 1.63 kg
Operating Temperature ●	Dimensions and Weight ●

Pandar128

Product Superiority



Pandar128

Pandar128 is a high-performance multi-beam LiDAR product highly integrated with Hesai's new breakthrough technologies



Ultra-long-range

The measurement range for objects with 10% reflectivity under 100 klux ambient light exceeds 200 m, while keeping the noise rate below 10⁻⁵



High range accuracy and precision

0.3 ~ 1 m: ±5 cm,
1 ~ 200 m: up to ±2 cm, RMSE < 2 cm



Ultra-high resolution

Up to 0.1° (H) * 0.125° (V) resolution at 10 Hz high-performance mode



Interference Rejection

Every pulse has its own 'fingerprint'



Higher protection grade

IP6K9K & IP6K7



Data transmission

Automotive ethernet and ordinary ethernet both available




Supports gPTP protocol

Microsecond-level precision synchronization


Pandar128

Applications

1 Smart City




2 Truck Logistics




* TuSimple Autonomous Truck

3 Autonomous Shuttle

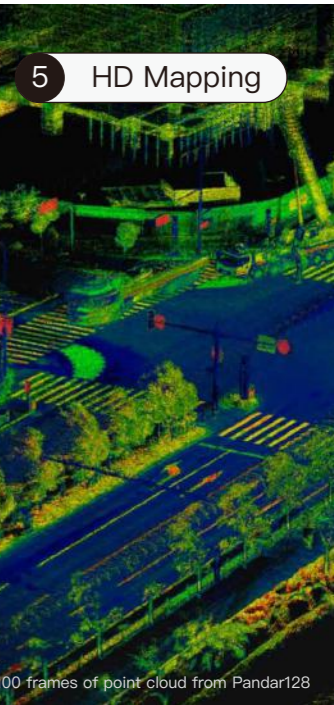


4 Robotaxi



* WeRide Robotaxi Fleet

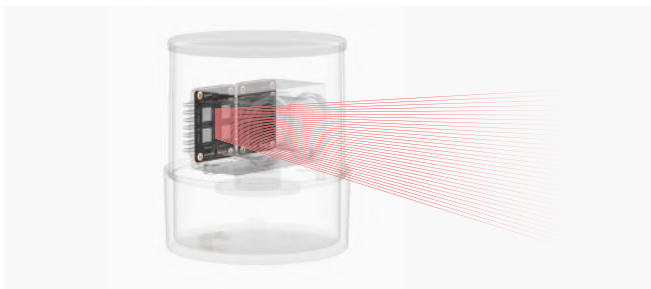
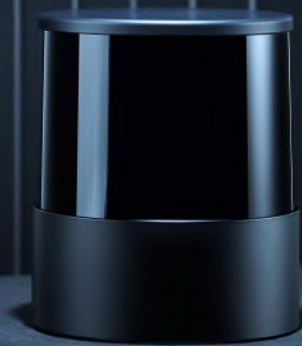
5 HD Mapping



* Stitching 100 frames of point cloud from Pandar128

OT128

Next Generation
High Performance 360° Spinning Lidar



OT128 is Hesai's next generation of L4 autonomous driving lidar, achieving a superb balance between performance, cost, and reliability. The automotive-grade OT128 can sense up to 200 meters with 360° horizontal FOV, making it the best choice for cost-effective lidar in large-scale autonomous vehicle deployment.

Key Specifications

Range Capability	200 m (@10% reflectivity, 100 klux)	Instrument Range	0.3 to 230 m
FOV	360° (H) x 40° (V)	Point Rate	3,456,000 pts/s (single return) 6,912,000 pts/s (dual return)
Angular Resolution	0.1° (H) x 0.125° (V) (Finest)	Frame Rate	10 Hz; 20 Hz
Range Accuracy	±3 cm (3 to 200 m)	Size	Height: 132.3 mm Max. Diameter: 118.0 mm
Power Consumption	29 W	Ingress Protection	IP6K9K & IP6K7
Automotive-Grade Standards	ISO 21434 Cybersecurity, Class 1 Eye Safety, ISO 26262 ASIL B Functional Safety		

Applications



Robotaxi



Robotruck



Robobus



Last Mile Delivery



V2X



Port Automation

Product Highlights

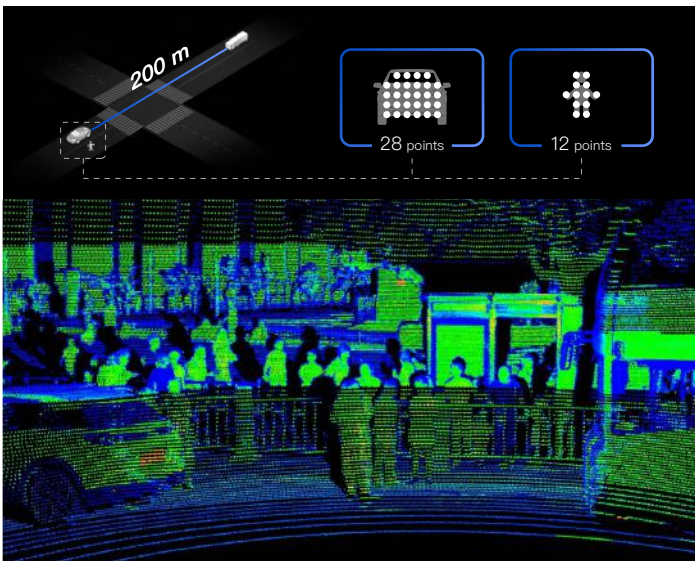
Designed for Mass Production

Modular design for high integration and automated production, balancing product performance with superior cost-effectiveness



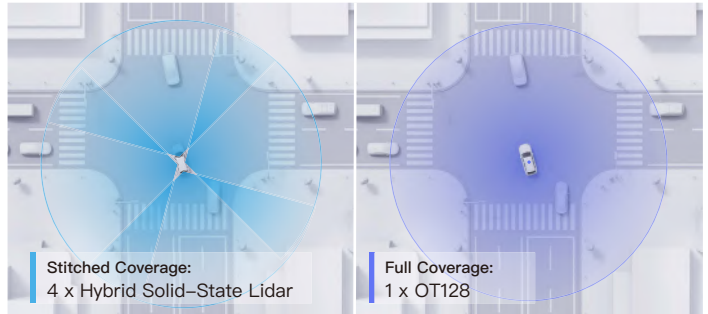
Image-Like Resolution

With a finest resolution of 0.1° (H) x 0.125° (V), OT128 enables the perception of cars and pedestrians even 200 meters away



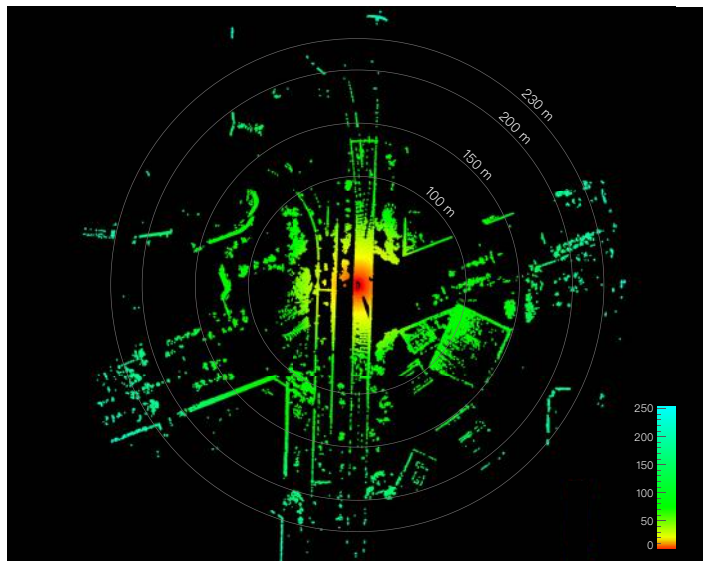
360° Full Coverage FOV

Achieving full 360° coverage with just one primary lidar sensor makes integration easier and enhances algorithm compatibility

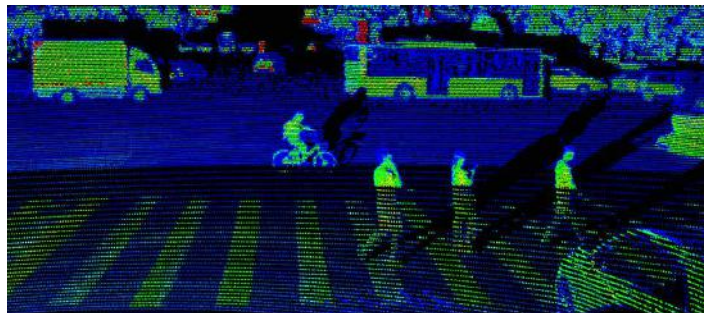
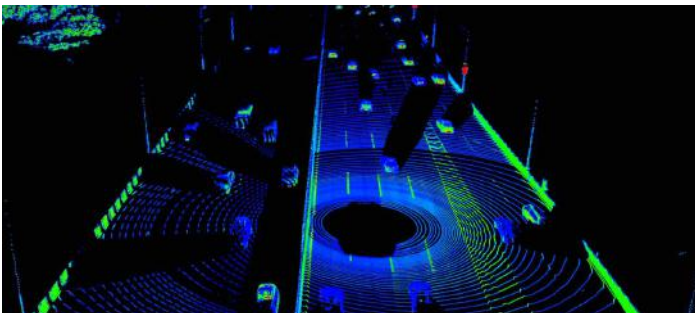


200 m Range Capability

Sensing objects over 200 m in 100 klux ambient light with 10% standard reflectivity, up to 230 m instrument range



Point Cloud



Hesai Technology Co., Ltd.

Global HQ | Building L2, Hongqiao World Center, Shanghai

US Office | 3500 W Bayshore Rd., Palo Alto, CA 94303

European Office | Charles-Lindbergh-Platz 1, 71034 Böblingen, Germany

sales@hesaitech.com

+86 400-805-1233 (China)

+1 650-655-7837 (US)



Website QR Code

QT128

128-Channel Ultra-Wide View Lidar

- 105° Ultra-Wide Vertical FOV
- Optimized for Superior Perception
- Automotive Grade

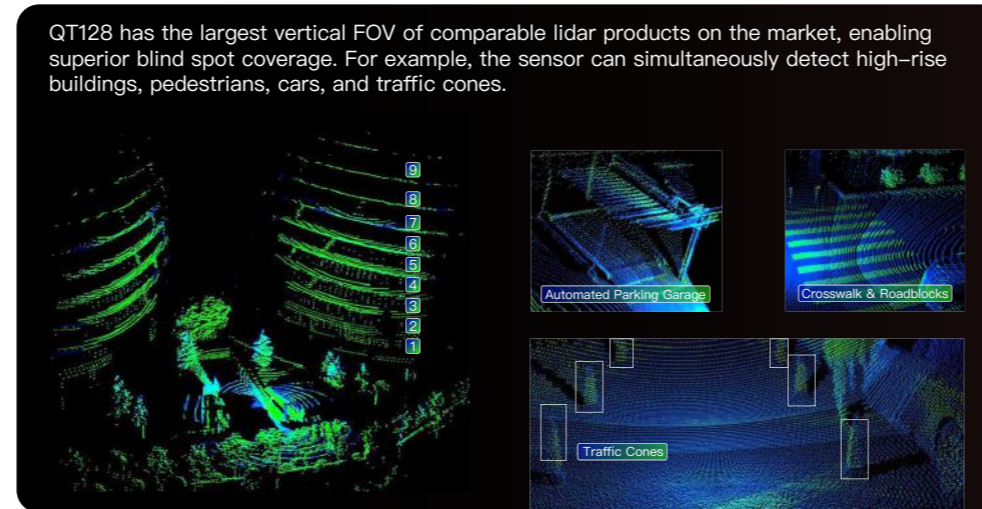


HESAI

QT128

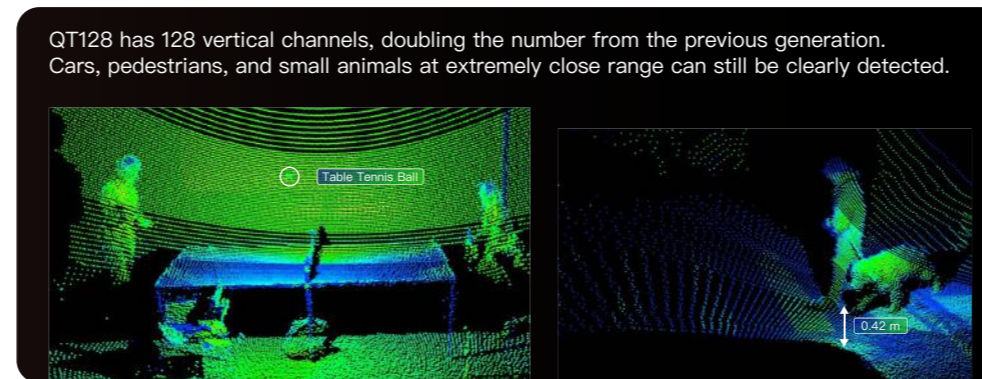
105° Ultra-Wide Vertical FOV

QT128 has the largest vertical FOV of comparable lidar products on the market, enabling superior blind spot coverage. For example, the sensor can simultaneously detect high-rise buildings, pedestrians, cars, and traffic cones.



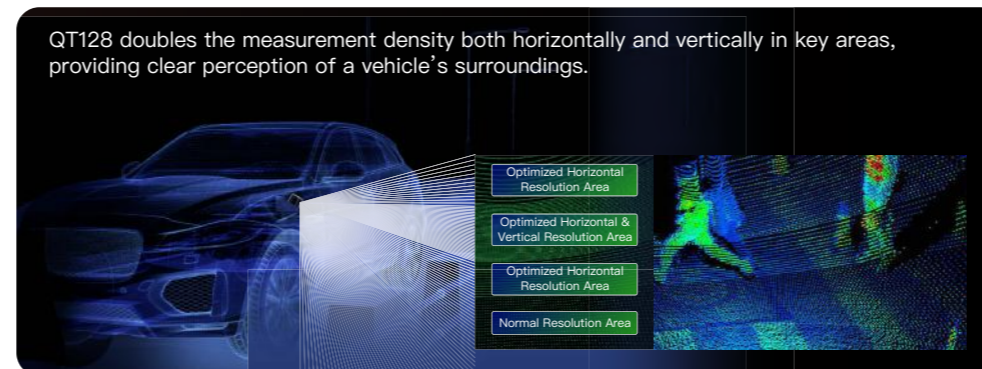
128 Channels, Higher Resolution

QT128 has 128 vertical channels, doubling the number from the previous generation. Cars, pedestrians, and small animals at extremely close range can still be clearly detected.



Optimized Channel Distribution, Superior Perception

QT128 doubles the measurement density both horizontally and vertically in key areas, providing clear perception of a vehicle's surroundings.

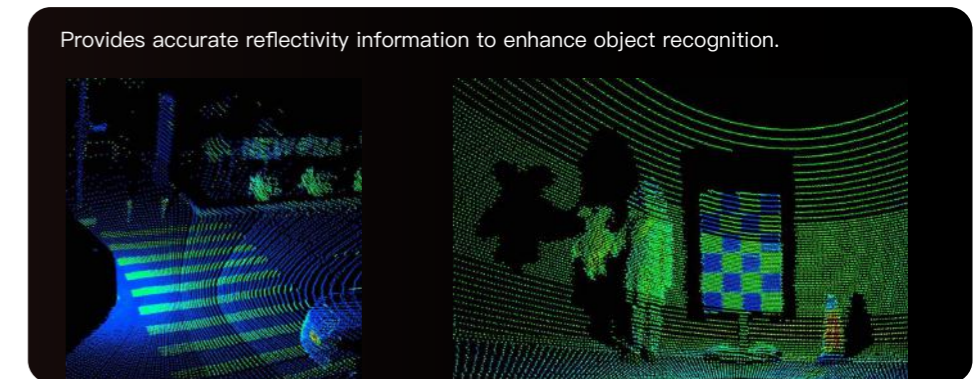


Strict Automotive-Grade Reliability Testing



High-Quality Reflectivity Information

Provides accurate reflectivity information to enhance object recognition.



Light and Compact

83 mm tall

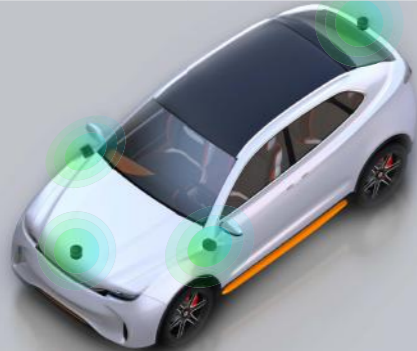
738 g



QT128 Applications



Robotaxis



Robotrucks



Delivery Robots



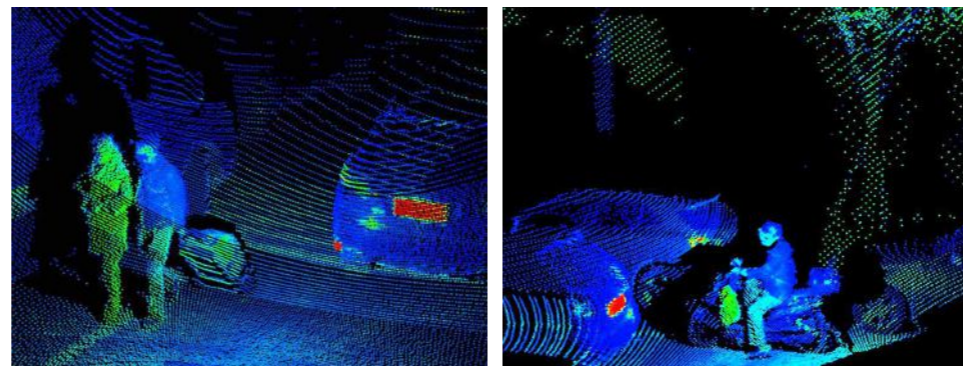
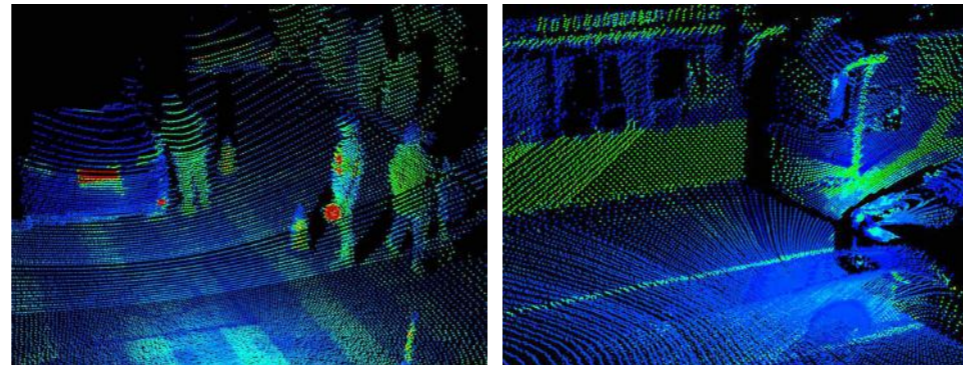
Shuttle Buses



QT128 Key Specifications

Channel	128	Laser Class	Class 1 Eye Safe
Instrument Range	0.05 to 50 m	Range Capability	20 m (at 10% reflectivity)
Range Accuracy	±3 cm (typical)	Range Precision	2 cm (typical)
FOV (Horizontal)	360°	Resolution (Horizontal)	Finest at 0.4° (10 Hz)
FOV (Vertical)	105.2°	Resolution (Vertical)	Finest at 0.4°
Power Consumption	12 W	Rated Voltage Range	DC 12 to 48 V
Operating Temperature	-40°C to 85°C	Ingress Protection	IP6K7 & IP6K9K
Weight	0.7 kg	Dimensions	Height: 83.9 mm Top/Bottom: Φ85.9/87.0 mm

QT128 Point Cloud



Hesai Technology Co., Ltd.

Hesai Headquarters – Shanghai Office

Building L2, Hongqiao World Center, Shanghai

+86 400-805-1233

sales@hesaitech.com



Website QR Code

Hesai Inc. – US Office

3500 W Bayshore Rd., Palo Alto, CA 94303

+1 650-665-7837

sales@hesaitech.com



WeChat QR Code

XT32/16

32/16-Channel Mid-Range Lidar

- Minimum Range of Zero
- High Precision
- Cost-Efficient



XT32/16 Key Specifications

Instrument Range 0.05 to 120 m	Range Capability 80 m @10% reflectivity (Channels 9 to 24)
Range Accuracy ±1 cm (typical)	Range Precision 0.5 cm (1 σ , typical)
Vertical FOV XT16: 30° (-16° to 15°) XT32: 31° (-16° to 15°)	Vertical Resolution XT16: 2° XT32: 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: Φ 100.0/103.0 mm
Power Consumption XT16: 9 W (typical) XT32: 10 W (typical)	Operating Voltage DC 9 to 36 V
Clock Source GPS/PTP	Data Points Generated XT16: Single Return: 320,000 pts/sec Dual Return: 640,000 pts/sec XT32: Single Return: 640,000 pts/sec Dual Return: 1,280,000 pts/sec

XT32/16 Applications



XT32/16

Product Superiority



Outstanding Precision

Superior to comparable products on the market.



Minimum Range of Zero

XT series 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.



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, 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.

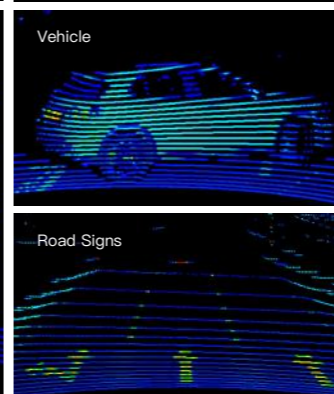
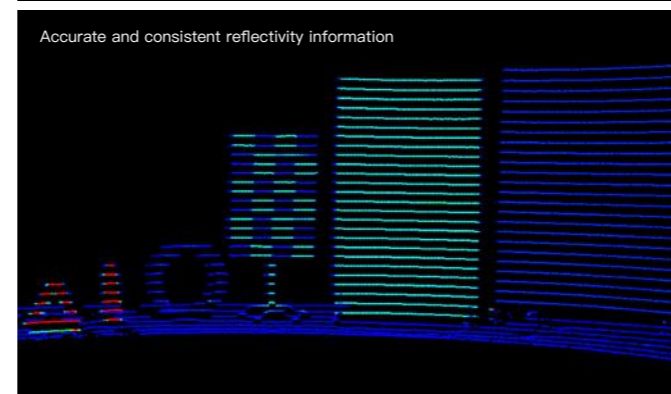
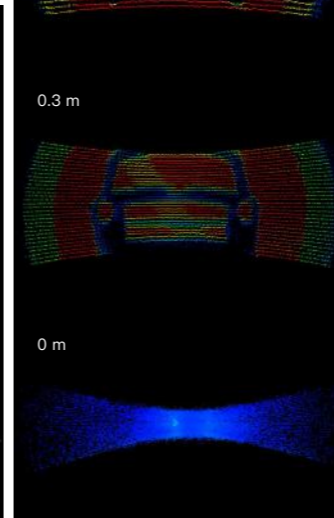
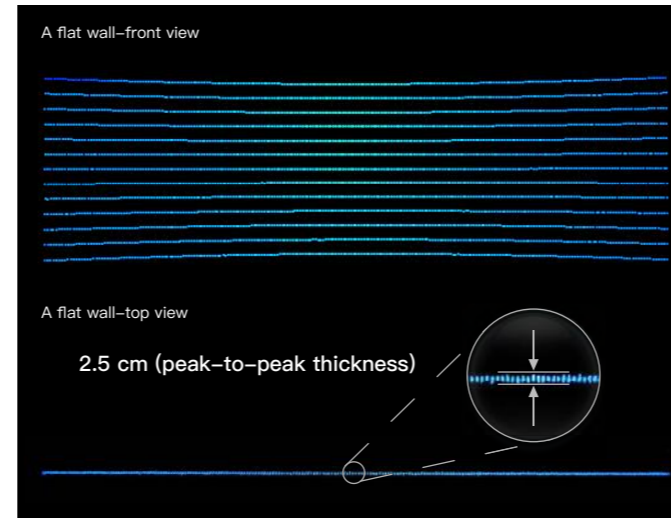
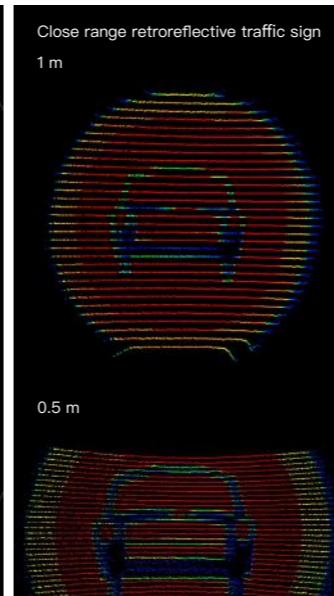
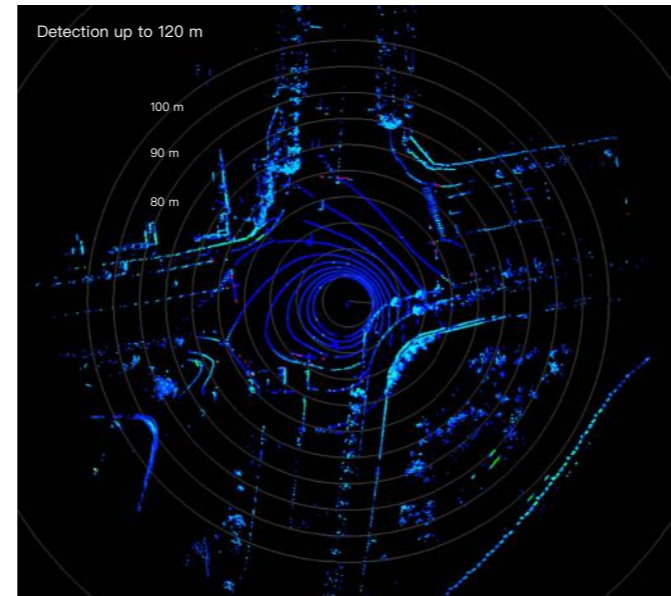


Interference Rejection

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

XT32

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

XT32/16

Product Superiority



Outstanding Precision

Superior to comparable products on the market.



Minimum Range of Zero

XT series 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.



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, 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.

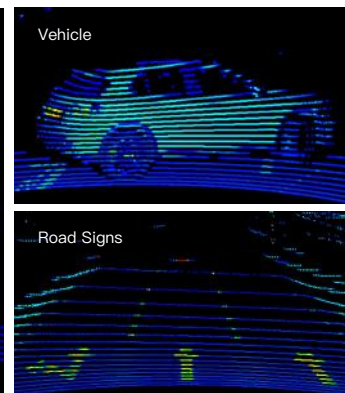
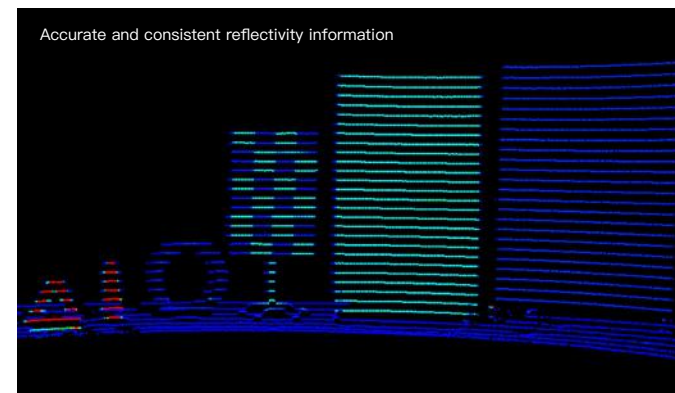
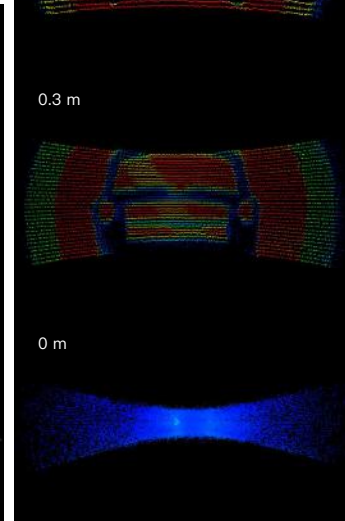
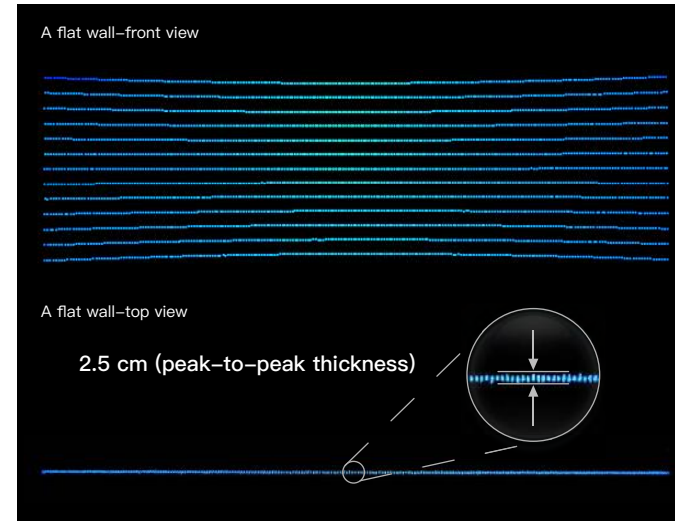
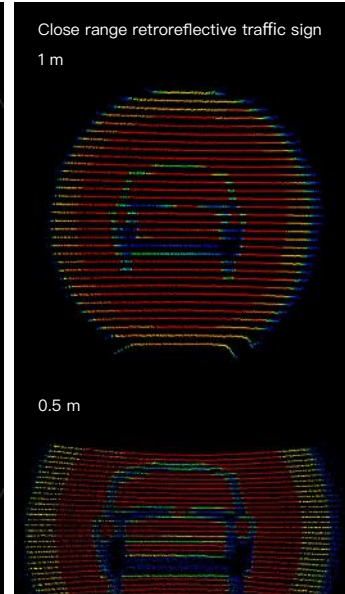
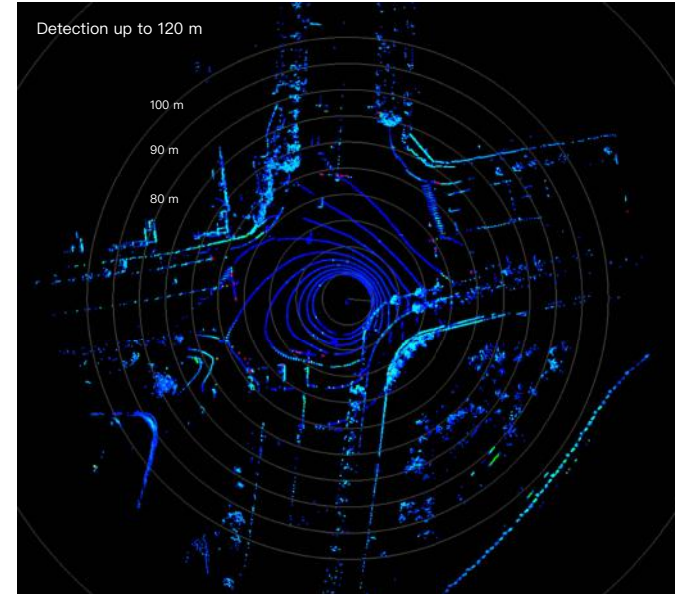


Interference Rejection

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

XT32

Point Cloud



XT32M2X

32-Channel LiDAR

- High Precision, Long Range
- More echoes, Light Weight
- Proprietary LiDAR ASICs



XT32M2X Key Specifications

Instrument Range 0.5 to 300 m	Range Capability 80 m, all channels@10% reflectivity (100 klux, POD>90%)
Range Accuracy ±1 cm (typical)	Range Precision 0.5 cm (1 σ , typical)
Vertical FOV 40.3° (-20.8° to 19.5°)	Vertical Resolution 1.3°
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 60°C
Weight 0.49 kg	Dimensions Height: 75.00 mm Top/Bottom: Φ 89.0 / 93.0 mm
Power Consumption 10 W (typical)	Operating Voltage DC 9 to 36 V
Clock Source GPS / PTP	Data Points Generated Up to 3 returns Triple Return: 1,920,000 points/sec

XT32M2X Applications



Drones



Vehicles



Indoors

XT32M2X

Product Superiority



Outstanding Precision

Superior to comparable products on the market.



Light And Small

XT32M2X weighs only 490g, which is only about 60% of the weight of PandarXT, and is smaller in size, making it more suitable for drones.



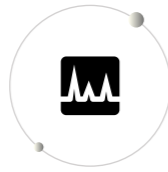
Strong Range Capability

Range detection up to 300 m, POD>90% when detecting 10% reflectivity targets at 80 m (all channels), which increases the flight altitude and recognition rate of application scenarios such as power line inspection.



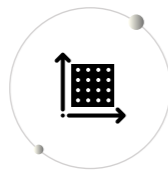
Interference Rejection

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



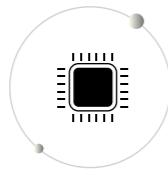
More Echoes

Up to 3 returns, and more details of trees, ground, etc. can be obtained during SLAM for natural.



Wider VFOV

The XT32M2X's VFOV has been expanded from PandarXT's 31° to 40.3°, so the field of view is wider. If the flying altitude is the same, the field of view can be increased by 32%.



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.

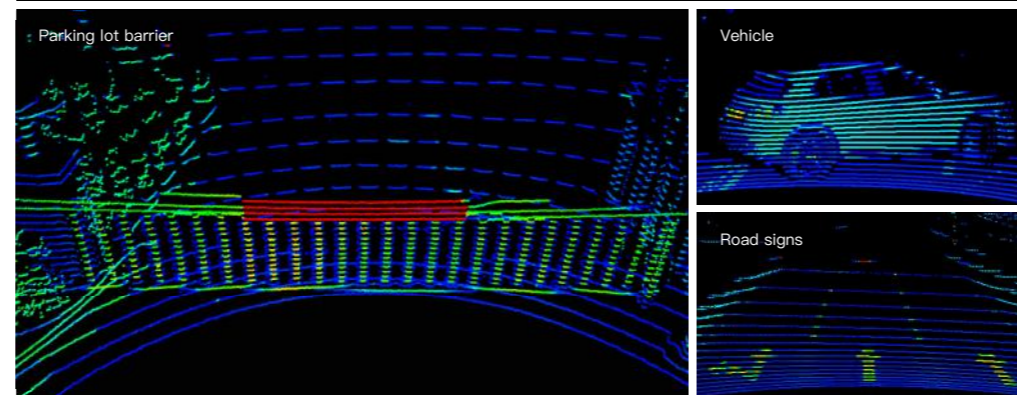
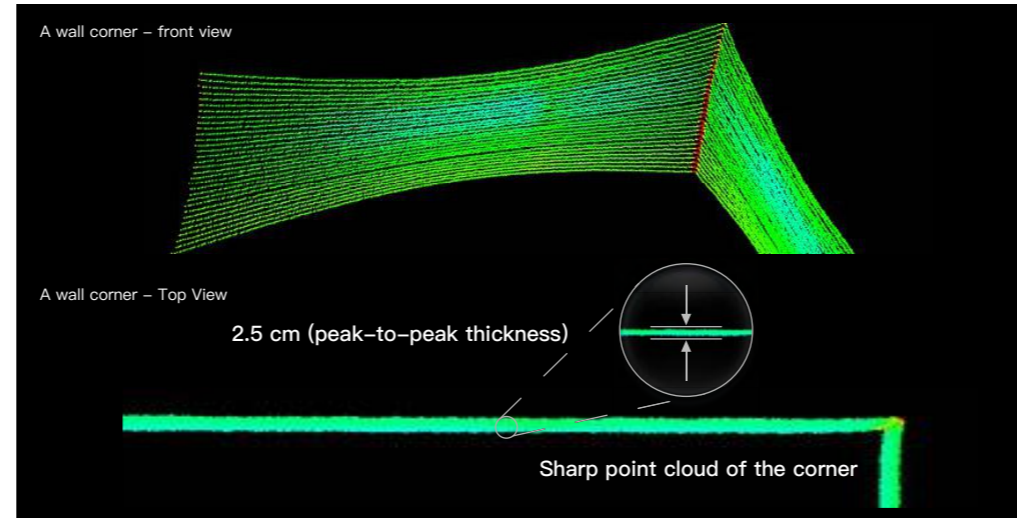
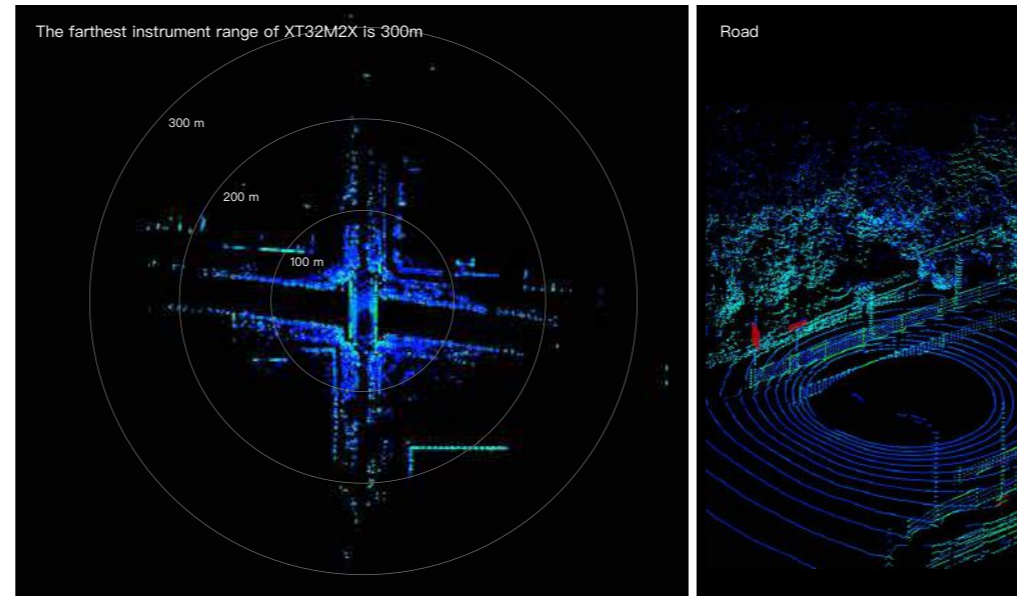


High-Quality Reflectivity

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

XT32M2X

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