

OUR PARTNERS

AUTONOMOUS MOBILITY PARTNERS

						
						

ROBOTICS & INDUSTRIAL PARTNERS

						
						



800,000+
Cumulative Lidar Deliveries

40+
Countries

1,700+
Global Patent Portfolio

No.1
Market Share

●● Hesai Customer Base

As of 2024 Q4

Hesai Technology

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Website QR Code

HESAI
NASDAQ: HSAI

HESAI 3D LIDAR
PORTFOLIO

FOR ROBOTIC AND INDUSTRIAL APPLICATIONS



EMPOWERING THE FUTURE OF 3D VISION

APPLICATIONS

Autonomous Mobility



 Ranging capacity

 High-resolution

 Automotive-grade









OT128Pandar128AT128QT128

Spatial Sensing



 High-precision

 Lightweight

 Small beam size







XT32XT32MJT128

Service Robots



 Miniature size

 Ultra-wide FOV

 Cost-effective





JT128JT16

Warehousing and Logistics



 High-resolution

 Small size

 Cost-effective







JT128XT32/16QT128

Stationary Applications



 High-resolution

 Ultra-wide FOV

 Reliable







XT32JT128OT128

3D LIDAR PORTFOLIO

	SHORT-RANGE SERIES				MID-RANGE SERIES			LONG-RANGE SERIES	
	 JT128	 JT16	 QT128	 FT120	 XT32/16	 XT32M	 Pandar128	 OT128	 AT128P
Channels	128	16	128	Fully solid-state	16/32	32	128	128	128
Range Capability (m)*	30 (up to 60)	30 (up to 100)	20	22	80	80, for all channels	200	200	210
Range Accuracy (cm)	±3	±3	±3	±5	±1	±1	±2	±3	±5
VFOV (°)	187	40 (0 to 40)	105 (-52.6 to +52.6)	75 (-37.5 to +37.5)	XT16: 30 (-15 to +15) XT32: 31 (-16 to +15)	40.3 (-20.8 to +19.5)	40 (-25 to +15)	40 (-25 to +15)	25.4 (-12.5 to +12.9)
Vertical Resolution (°)	0.8	2.67	Finest 0.4	0.625	XT16: 2 XT32: 1	1.3	Finest 0.125	Finest 0.125	0.2
HFOV (°)	360	360	360	100	360	360	360	360	120
Horizontal Resolution (°) [Finest]	0.4	0.6	0.4	0.625	0.09	0.09	0.1	0.1	0.1
Frame Rate (Hz)	10/20	5/10	10/20	10	5/10/20	5/10/20	10/20	10/20	10/20
Data Points Generated [Single Return] (pts/s)	1,152,000	48,000	864,000	192,000	XT16: 320,000 XT32: 640,000	640,000	3,456,000	3,456,000	1,536,000
Data Points Generated [Dual Return] (pts/s)	2,304,000	/	1,728,000	384,000	XT16: 640,000 XT32: 1,280,000	1,280,000 1,920,000 [Triple Return]	6,912,000	6,912,000	3,072,000
Data Transmission	100BASE-TX	RS-485	1000BASE-T1	100BASE-T1	100BASE-TX	100BASE-TX	1000BASE-T1/T	1000BASE-T1	1000BASE-T1
Operating Temperature (°C)	-20 to 65	-20 to 55	-40 to 85	-40 to 85	-20 to 65	-20 to 60	-40 to 85	-40 to 75	-40 to 85
Dimensions (mm)	H 68 x Φ 60	H 64 x Φ 55	H 83.9 x Φ 87	W 96 x D 77 x H 134	H 76 x Φ 103.2	H 75 x Φ 93	H 123.7 x Φ 116	H 132.3 x Φ 118	W 136 x D 114 x H 49
Weight (kg)	0.25	0.2	0.7	0.7	0.8	0.49	1.63	2.3	0.95

*At 10% reflectivity, measured under 100 klux ambient illuminance