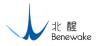
LiDAR: CE30

Solid-state & 132° HFOV













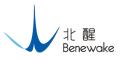






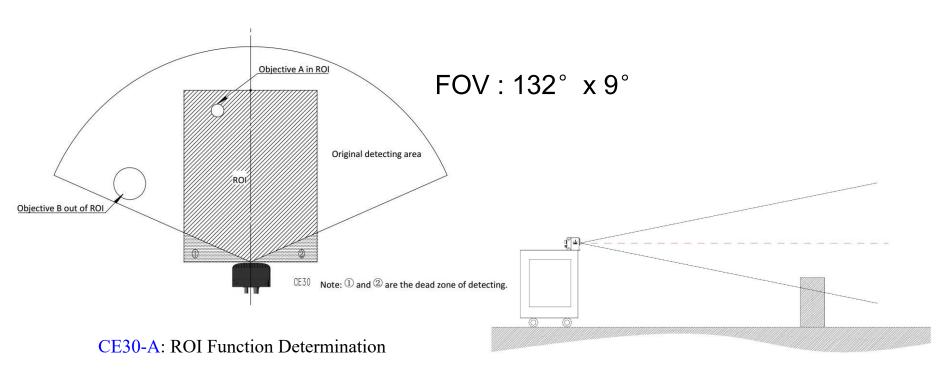


Nature





Wide FOV of CE30



Compared with the 2D Scan LiDAR, CE30 can better avoid the low obstacles on the ground.





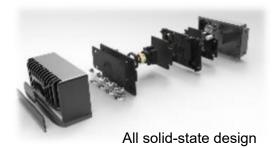
Benewake solid-state LiDAR:

CE30

【Highlight】

- Mass production
- Solid-state system (No rotating components)
- Calibration through software algorithms,
 without mechanical adjustment
- FOV 132*9°, 320*24 pixels
- Embedded AI obstacle avoidance algorithm
- >10,000 hours of lifetime





[Mass production verification]

As of 12:00pm September 10, 2017 morning,

Benewake solid-state LiDAR single unit life is over 8,000h

CE30-A's accumulated life exceeded 1,000,000h

All LiDAR products' accumulated life exceeded 10,000,000h

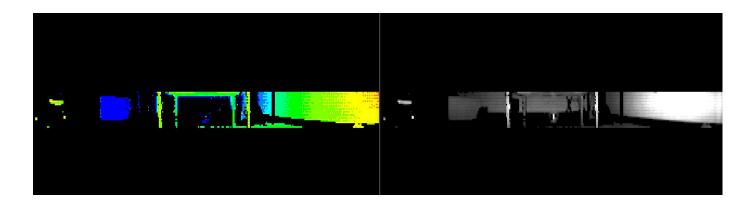




Solid-state LiDAR

- No rotating components : longer lifespan
- CE30-C Point Cloud Version:

Output depth information & grey image simultaneously





Outdoor application

- Works under 60k lux
 - sunlight in Oct in Beijing : 20k lux
- Competitive price, better performance







FOV: 132° * 9° Resolution: 320 * 24

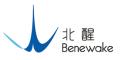




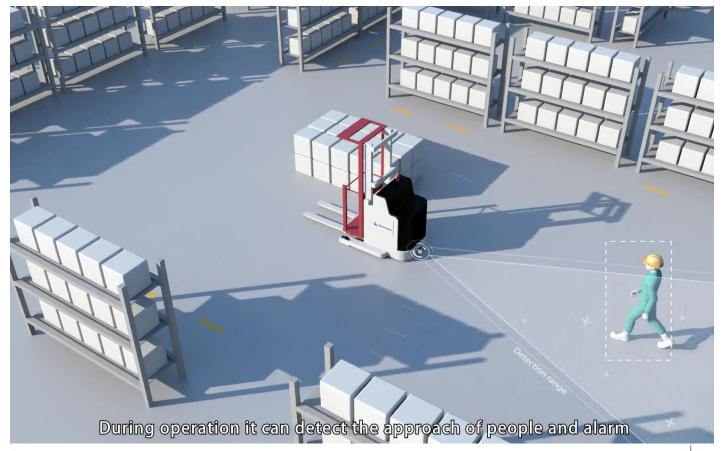
Benchmark SICK TIM510

	TIM510	CE30-A
Principle	Mechanical rotation	Solid state
Range	2/4m	4m
Refresh rate	15fps	20fps
Accuracy	1~4cm	1~4cm
Channels	1	24
Price	\$1000	\$800
Reliability	High	High

Applications



CE30-A: AGV Obstacle Avoidance



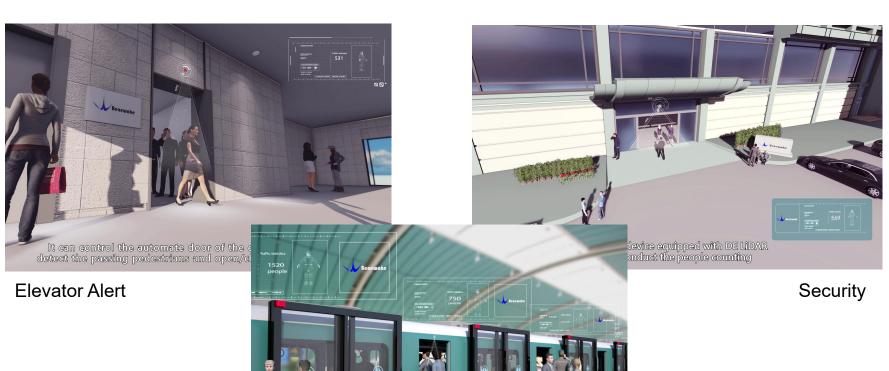
CE30-A: Warehouse AGV Real Application



A sudden obstacle appears during the vehicle movement, the vehicle will stop immediately until the obstacle is removed



CE30-C: Counting



Platform-screen doors equipped with DE LIDAR control the open timing and count passengers



CE30-C: Large Clean Robot SLAM





Thanks

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