

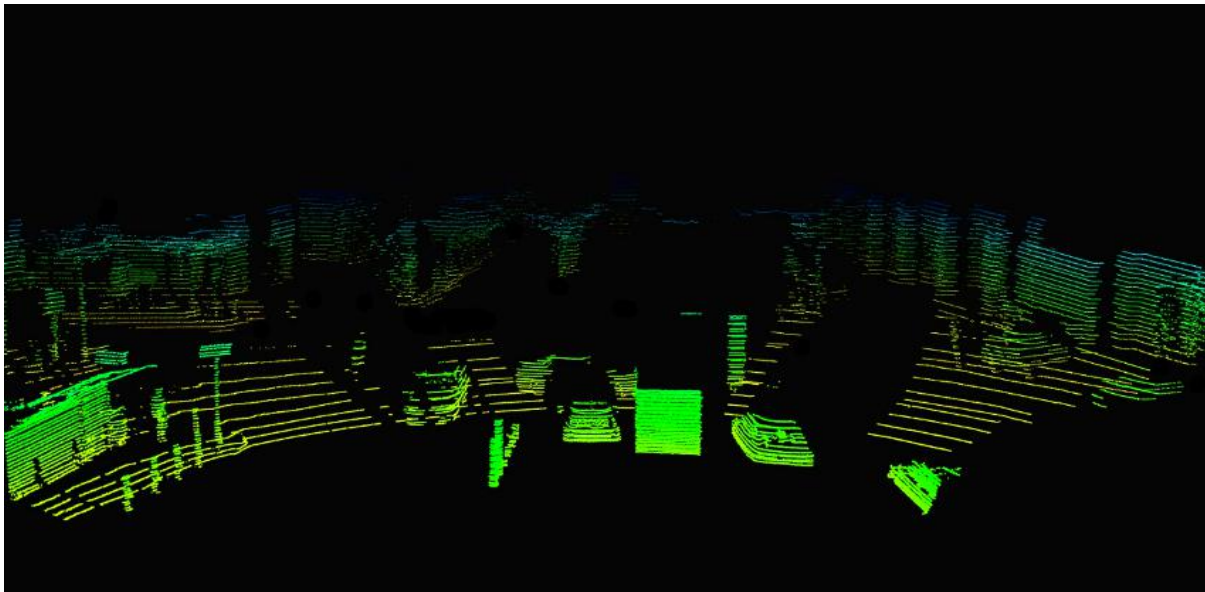
## CH Series 32/16-Channel LiDAR



### Abstract

CH Series 32 / 16 channel LiDAR is designed for Automotive Grade Standards to meet demands of L4 and L5 autonomous cars. With a hybrid solid-state structure, its measurement range is up to 300 m(CH32 / 16), and the ranging accuracy is  $\pm 2$ cm, with 120° horizontal FOV, measuring rate up to 426k pts/s(CH32 / 64), 213k pts/s(CH16), which can work with high-speed, low-speed cars and other scenarios.

### Demo



## Specifications

| Model                             |            | CH32   | CH16                      |
|-----------------------------------|------------|--|---------------------------|
| Channel                           |            | 32   | 16                        |
| Measurement Technique             |            | Time of Flight (TOF)   |                           |
| Wave length                       |            | 905nm  |                           |
| Laser Classification              |            | Class 1 Eye-safe / IEC 60825-1:2007 & 2014   |                           |
| Measurement Range<br>( Standard ) | Typical    | 100m / 150m / 200m ( Reflectivity 20% )  |                           |
|                                   | Min        | 90m / 135m / 180m ( Reflectivity 20% )   |                           |
|                                   | Accuracy   | ±2cm ( 0.5m ~ 200m)  |                           |
| Measurement Range<br>( Enhanced ) | Typical    | 200m ( Reflectivity 10% ) / 300m ( Reflectivity 70% )  |                           |
|                                   | Min        | 180m ( Reflectivity 10% ) / 270m ( Reflectivity 70% )  |                           |
|                                   | Accuracy   | ±3cm (0.5m ~ 300m)   |                           |
| Data Points Generated             |            | 426,000 points per second  | 213,000 points per second |
| Rotation Rate                     |            | 5 ~ 20Hz   |                           |
| Field of View<br>(FOV)            | Horizontal | 120°   |                           |
|                                   | Vertical   | -6.67°~ 4.58°  | -4°~ 2°                   |
| Angular Resolution                | Horizontal | 200m: 5Hz: 0.045° / 10Hz: 0.09° / 20Hz: 0.18°<br>300m: 5Hz: 0.075° / 10Hz: 0.14° / 20Hz: 0.27°     |                           |
|                                   | Vertical   | Vertical angle resolution between 0 ~ 0.81 °, minimum 0.09 ° in the middle and a maximum of 0.47 ° |                           |
| Operating Voltage                 |            | 9V~ 36VDC  |                           |
| Operating Temperature             |            | -40°C ~ 85°C   |                           |
| Communication Interface           |            | 100M Ethernet , PPS  |                           |
| Power Consumption                 |            | 10 W   | 9 W                       |
| Shock Test                        |            | 500m/sec <sup>2</sup> , last11ms   |                           |
| Vibration                         |            | 5Hz-2000Hz , 3G rms  |                           |
| IP                                |            | IP 67  |                           |
| Weight                            |            | 1.5kg  |                           |
| Dimension ( L·W·H )               |            | 155 * 107.5 * 90mm   |                           |



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