

## C32/16-line Mechanical LiDAR



C32

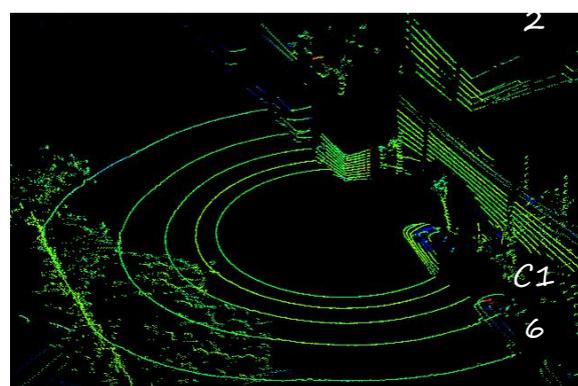
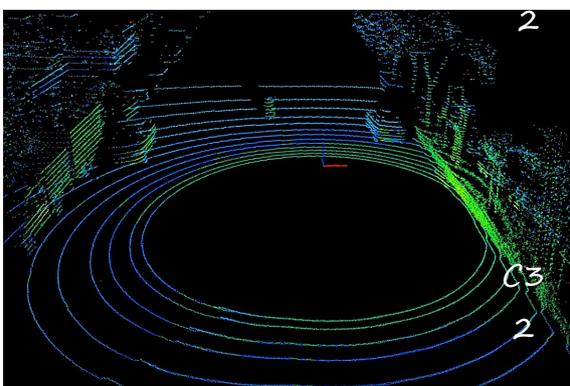
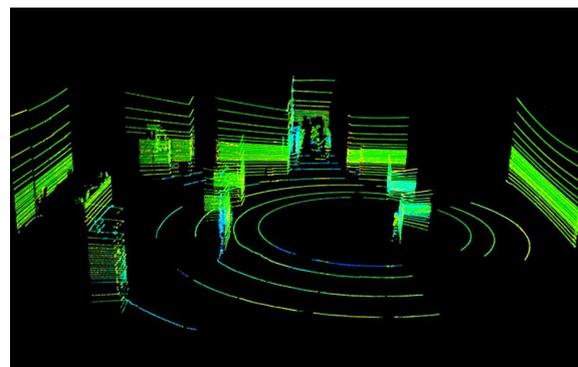
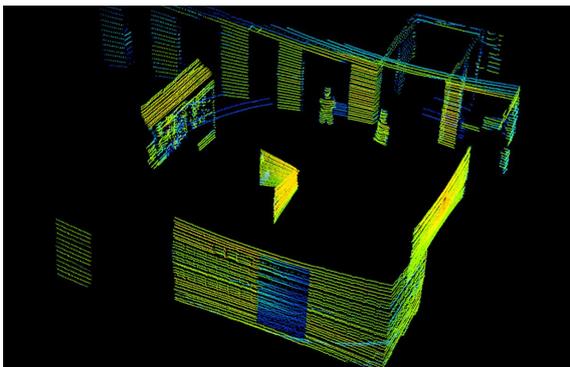


C16

### Abstract

C32/16 achieves 360° 3D high-speed scanning with stable and reliable performance. Being benefited from self-developed LD and APD automated packaging process, the laser transmitter and receiver modules of C32/16 are highly integrated, with more stable and reliable performance, more shock and vibration resistance, and more suitable for mass production. Both are widely used in autonomous vehicle, ADAS, smart transportation, robots, logistics, surveying and mapping, security and so on.

### Demo



## Parameters

| Model                   |               | C32                                    | C16           |
|-------------------------|---------------|--|---------------|
| Channel                 |               | 32                                     | 16            |
| Measurement Technique   |               | TOF                                    |               |
| Wavelength              |               | 905nm                                  |               |
| Laser Classification    |               | Class 1 (Eye-safe)                     |               |
| Range                   |               | 150m                                   |               |
| Accuracy                |               | ±3cm                                   |               |
| Data Points Generated   | Single Return | 600,000 pts/s                          | 320,000 pts/s |
|                         | Dual Returns  | 1,200,000 pts/s                        | 640,000 pts/s |
| Rotation Rate           |               | 5Hz, 10Hz, 20Hz (optional)             |               |
| FOV                     | Horizontal    | 360°                                   |               |
|                         | Vertical      | -16°~ 15°                              | -15°~ 15°     |
| Resolution              | Horizontal    | 5Hz: 0.09° / 10Hz: 0.18° / 20Hz: 0.36° |               |
|                         | Vertical      | 1°                                     | 2°            |
| Operating Voltage       |               | 9V~ 36V DC                             |               |
| Operating Temperature   |               | -20°C ~60°C (Customized up to -40°C)   |               |
| Communication Interface |               | Ethernet, PPS, GPS                     |               |
| Shock Test              |               | 500m/sec <sup>2</sup> , last11ms       |               |
| Vibration               |               | 5Hz-2000Hz, 3G rms                     |               |
| IP                      |               | IP67                                   |               |
| Weight                  |               | 1600g                                  | 1000g         |
| Dimension (D·H)         |               | Φ 120*110mm                            | Φ 102 * 81 mm |