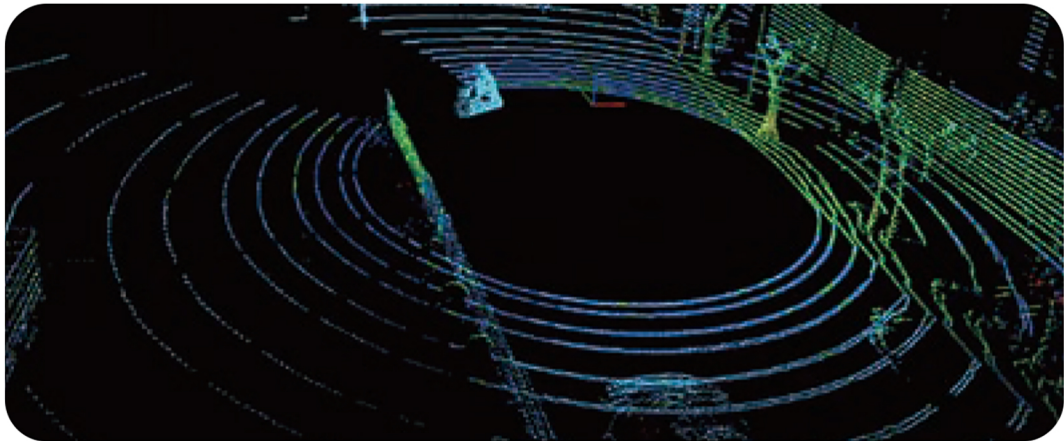


# C32/16

## Multi-line Mechanical LiDAR

C32/C16 LiDAR can realize 360° three-dimensional high-speed scanning with a dense 16/32 scanning channels. The PoE version uses a single Ethernet cable to solve power and data transmission, simplifying wiring, reducing costs, supporting 100 meter power supply, and improving system flexibility and installation convenience. Widely used in driverless, automotive ADAS, intelligent transportation, service robots, logistics, surveying and mapping, security, port, industry and other fields.



C32 / C32 PoE

C16 / C16 PoE

| LASER        | Wavelength                 | 905nm                                      |                   | 905nm                                      |
|--------------|----------------------------|--------------------------------------------|-------------------|--------------------------------------------|
|              | Laser Class                | Class I                                    |                   | Class I                                    |
| SPEC         | Channels                   | 32                                         |                   | 16                                         |
|              | Detection Method           | TOF                                        |                   | TOF                                        |
|              | Detection Range            | 100m@10%, 150m@70%                         |                   | 100m@10%, 150m@70%                         |
|              | Precision                  | ±3cm                                       |                   | ±3cm                                       |
|              | Range Accuracy             | ±1cm                                       |                   | ±1cm                                       |
|              | Horizontal FOV             | 360°                                       |                   | 360°                                       |
|              | Vertical FOV               | -16°~15°                                   |                   | -16°~14°                                   |
|              | Horizontal Resolution      | 0.09°/ 0.18°/ 0.36°                        |                   | 0.09°/ 0.18°/ 0.36°                        |
|              | Vertical Resolution        | Uniform 1°                                 |                   | Uniform 2°                                 |
|              | FPS                        | 5Hz / 10Hz / 20Hz                          |                   | 5Hz / 10Hz / 20Hz                          |
| EXPORT       | Data Point Generating Rate | Single Echo                                | 640,000 pts/sec   | Single Echo 320,000 pts/sec                |
|              |                            | Dual Echo                                  | 1,280,000 pts/sec | Dual Echo 640,000 pts/sec                  |
| ELECTRIC     | Communication Interface    | Ethernet, PPS<br>/100M Industrial Ethernet |                   | Ethernet, PPS<br>/100M Industrial Ethernet |
|              | Input Voltage              | 12V~32V DC / 36~57V DC                     |                   | 12V~32V DC / 36~57V DC                     |
|              | Power Consumption          | 12W (10Hz)                                 |                   | 10W (10Hz)                                 |
| ENVIRON-MENT | IP Grade                   | IP67                                       |                   | IP67                                       |
|              | Working Temperature        | -20℃~60℃                                   |                   | -20℃~60℃                                   |
|              | Vibration Test             | 5Hz-2000Hz, 3G rms                         |                   | 5Hz-2000Hz, 3G rms                         |
|              | Shock Test                 | 500m/sec², lasting for 11ms                |                   | 500m/sec², lasting for 11ms                |
| MACHINE      | Weight                     | 1040g / 1100g                              |                   | 1040g / 1100g                              |
|              | Dimensions (DxH)           | Φ102x77.9 mm / Φ102x91.9mm                 |                   | Φ102x77.9 mm / Φ102x91.9mm                 |