3-12km RANGEFINDER(1535nm)

Features :

- Small size and light weight
- Class I human eye safety standards
- Stable performance and easy to use
- Provide customization service
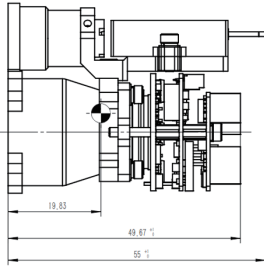- Developed based on 1535nm Er: Glass Laser

Applications :
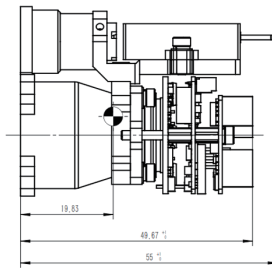
- Laser Ranging
- Targeting
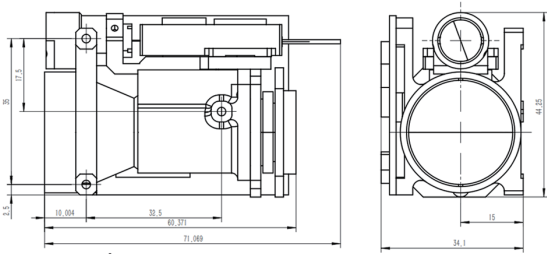- Photoelectric reconnaissance

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①   ②   ③

④   ⑤   ⑥

Structural diagram :
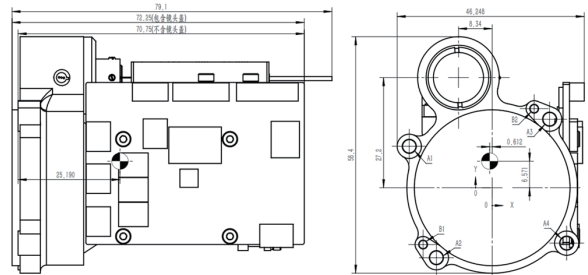
① LSP-LRS-0410A

② LSP-LRS-0510A

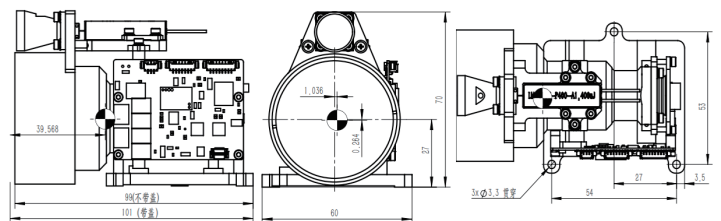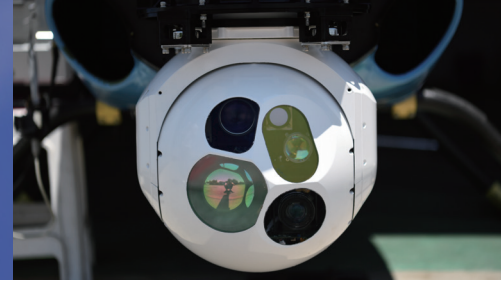③ LSP-LRS-0610A

④ LSP-LRS-0810A
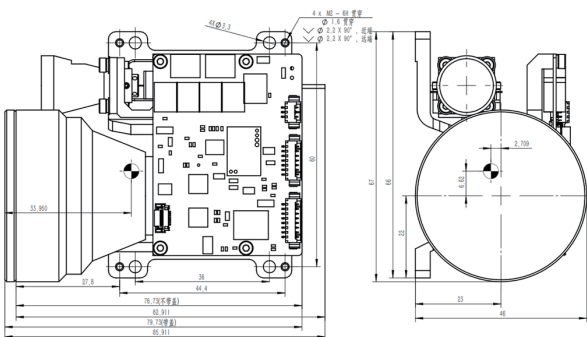
⑤ LSP-LRS-1010A

⑥ LSP-LRS-1210A

LSP-LRS-0410A LSP-LRS-0510A LSP-LRS-0610A LSP-LRS-0810A LSP-LRS-1010A LSP-LRS-1210A

Item		Parameter					
Human Eye Safety Level		Class 1					
Laser Wavelength		1535±5nm					
Laser Beam Divergence		≤0.5mrad				≤0.3mrad	
Frequency		1~10Hz					
Ranging Capability	Vehicle(2.3m x 2.3m)	≥4000m	≥5000m	≥6000m	≥8000m	≥10000m	≥12000m
	Person (1.7m x 0.5m)	≥1500m	≥2000m	≥3500m	≥5000m	≥6000m	≥7000m
Minimum Range		≤20m		≤30m			≤50m
Ranging Accuracy		≤±2m					
Resolution		≤30m					
Supply Voltage		DC 9V~36V					
Weight		≤56g	≤56g	≤75g	≤120g	≤145g	≤240g
Average Power Consumption		≤1.5w					
Peak Power Consumption		≤5w					
Dimension		≤56mm×27mm×41mm	≤56mm×27mm×41mm	≤71mm×45mm×36mm	≤79mm×60mm×46.5mm	≤85mm×68mm×47mm	≤100mm×60mm×70mm
Data Interface		RS422 / TTL					
Working Temperature		-40℃~+60℃					
Storage Temperature		-50℃~+70℃					

①：Support customization

Precautions For Use

1. The laser emitted by this ranging module is 1535nm, which is safe for the human eye; however, it is recommended not to stare directly at the laser.1
2. When adjusting the parallelism of the three optical axes, be sure to cover the receiving lens to avoid permanent damage to the detector due to strong backscattering.
3. This ranging module is not airtight; please ensure that the relative humidity in the usage environment is below 80% and maintain a clean and hygienic environment to prevent damage to the laser.
4. The measurement range of the ranging module is related to atmospheric visibility and the nature of the target. Ranging may be reduced in conditions such as fog, rain, and sandstorms. Targets like green clusters of leaves, white walls, and exposed limestone with good reflectivity can increase the measurement range. Additionally, an increased angle between the target and the laser beam can reduce the measurement range.
5. It is strictly prohibited to emit laser beams towards highly reflective targets such as glass or white walls within 20 meters to avoid excessive backscattering that could damage the APD detector.
6. Do not plug or unplug cables while the power is on.
7. Ensure that the polarity of the power supply is correctly connected; otherwise, it may result in permanent damage to the equipment.

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¥78million	9+	90%	200+
Register Capital	Ph.D	Proportion of Talent	Patents

Lumispot was founded in 2010, with its headquarters in Wuxi, boasts a registered capital of CNY 78.55 million. Our expansive facility covers an area of approximately 40,000 square meters and is powered by a dedicated team of over 500 employees. Over the past 14+ years, Lumispot has emerged as a frontrunner in the specialized field of laser information technology, underpinned by a robust technical foundation.

We specialize in the research and development of laser technology, providing a diverse portfolio of products.This range encompasses laser ranging module, laser rangefinder, laser pump source, semiconductor laser, fiber laser,and solid-state laser, as well as comprehensive systems including structured lasers, and dazzlers. Our products find extensive applications across various sectors such as defense and security, LiDAR systems, remote sensing, inertial navigation, and technical research.

Lumispot is recognized as a National High-tech Enterprise and a National Innovation Enterprise, a testament to our commitment to innovation and excellence. This is further evidenced by our impressive portfolio of over 200 patents, marking our significant contributions to the field of laser technology.

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Illuminate Future From Laser
We aim to become the global leader in laser special information domain.

CE FDA