SPIKE A / Vehicle Observation EO System



SPIKE-A Photoelectric Reconnaissance and Loading System is stabilized and can be operated by day and night.

Operational functions include surveillance, target identification, and tracking. It can be widely used in vehicle reconnaissance, security protection, maritime enforcement, and other fields.

10µm @ 1260*1024 VoX uncooled

Thermal: 1024*768 (1280/640 option) 22.9-100mm

Visible: 1920*1080,10-150mm

LRF: 6KM (1550nm) Low light: Option Ingress class: IP67

Operation temperature: -40°C ~ +55°C

Applications

- Laser Ranger Finding
- Passenger & Vehicle recognition
- Picture in Picture
- Maritime Patrol



Lens	DD	DD	RD	RD	ID	ID
	(Vehicle)	(Human)	(Vehicle)	(Human)	(Vehicle)	(Human)
100mm	6km	4km	3.2km	2.4km	1.6km	1.2km

Vehicle Observation EO System



Features of SPIKE-A Best Inspection Camera for Automotive Use

- 1. High resolution, large array Infrared resolution 1024×768/1280×960 (optional) Visible light resolution 1920×1080
- 2. Intelligent target identification and tracking Optimized visual algorithm allows more accurate recognition and track of people and vehicles in FOV.
- 3. High stability
 Visible light module optical axis stability≤3 pixels
- 4. Multi-sensor integration
 The integration of infrared, visible light, and laser makes it capable of 24h long-distance identification and tracking as well as video and evidence collection. The low light module is optional.
- 5. High reliability IP67 protect it from dust and water, vibration, and impact. The consistency between any two optical axes ≤0.3 mra



Specifications

	Detector type	Uncooled infrared detector		
	Resolution	1024×768		
	Spectral band		8~14µm	
	Pixel size		12µm	
	Frame rate		50Hz	
	Focal length		22.9~100mm	
	FOV		30.0°×22.8°~7.0°×5.3°	
Infrared Module	NETD		≤50mK @25°C, F#1.0	
	MRTD (small FOV)		≤400mK @25°C, F#1.0	
	Focusing mode		Auto or electric focusing	
	Starting time		≤20s	
	Continuous zoom time	;	≤4s	
	D 30 P 4	Human (1.7m×0.5m)	2km	
	Recognition distance	Vehicle (2.3m×2.3m)	2.5km	
	Detector target area		1/1.8"	
	Resolution		1920×1080	
	Pixel size		2.7µm	
	Focal length		10~150mm	
A Carlle La Parle Cara a shalla	FOV		29.1°×16.6°~2.0°×1.1°	
Visible light module	Focusing mode		Auto or electric focusing	
	Fog penetration		Support	
	Continuous zoom time		≤2s	
	Recognition distance	Human (1.7m×0.5m)	8km	
		Vehicle (2.3m×2.3m)	9km	
	Laser wavelength		1535±5nm	
	Measuring range		50m~6km (2.3m×4.6m)	
	Measuring accuracy		≤2m	
Laser Rangefinder	Accuracy rate		≥98%	
Laser Kangennuer	Measuring frequency		1~10Hz	
	Eye safety		Class 1	
	Beam divergence angl	e	≤0.35mrad	
	Number of detection to	argets	≥3	
Environment	Operating temperature)	-40°C~+55°C	
Adaptability	Storage temperature		-43°C~+70°C	
rauptability	Ingress protection		IP67	
1	Power supply range		DC24V±6	
Hardware Interfaces	Power consumption at	room temperature	≤25W	
Tiaraware interraces	Communication protoc	col	RS-422/CAN2.0B	
	Video format		SDI	
	Weight		≤9kg	
Physical Parameters	Dimensions		226×172×240mm	
	Cover color		Desert yellow	





