

SPIKE-J

Panoramic Stitching Vision-enhanced Night Vision Device



Spike-J Panoramic Stitching Vision-enhanced Night Vision Device is equipped with multiple infrared and visible light sensors to provide multi-spectral wide FOV at the same operating distance through seamless image mosaic technology.

Visible light resolution: 1920×1080×3
Infrared resolution: 640×512×3 (12μm)
FOV 130°



Applications

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

Lens	DD Vehicle)	DD (Human)	RD (Vehicle)	RD (Human)
	2km	1.5km	0.7km	0.4km

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Features of Spike-J Panoramic Stitching Vision-enhanced Night Vision Device

1. Seamless images

Advanced real-time stitching algorithm makes the images stitched seamlessly.

2. Ultra big FOV

A single module can provide 130° FOV, and 360° FOV can be realized through cooperation of multiple modules.

3. Plug and play

It supports independent operation without being carried by computer.

4. All weather

Multi-spectrum sensors satisfy detection under different LOS conditions.

5. Intelligent sensing

This system can be integrated to an AI platform to detect and classify targets to realize accurate target detection and recognition.



Specifications

DESCRIPTION			Spike-J Standard)	Spike-JS Smart)
Infrared	Type		Uncooled	Uncooled
	Pixel pitch		12μm	12μm
	Resolution		640×512	640×512
	FOV		130°×40°	130°×40°
Visible light	Pixel pitch		2.9μm	2.9μm
	Resolution		1920×1080	1920×1080
	FOV		130°×29°	130°×29°
Interface	Video interface		SDI	SDI/H.264 encoded
	FPS		25	25
	Power supply		18-36 VDC	18-36 VDC
	Communication		CAN	CAN
Target recognition	----		Unavailable	Available
Operating distance	Detection distance	Human	750m(infrared), 1800m(visible light)	750m(infrared), 1800m(visible light)
		Vehicle	1100m(infrared), 2300m(visible light)	1100m(infrared), 2300m(visible light)
	Recognition distance	Human	200m(infrared), 430m(visible light)	200m(infrared), 430m(visible light)
		Vehicle	250m(infrared), 590m(visible light)	250m(infrared), 590m(visible light)
Appearance	Dimension		260×130×120mm	260×130×120mm
	Weight		<3.5kg	<4kg
Environment	Operating temperature		-40°C~+55°C	-40°C~+55°C
	Shock		40g	40g
	Waterproof grade		IP67	IP67
Note: Human target 1.7 m×0.5 m; vehicle target 2.3 m×2.3 m.				

