

Uncooled polarized infrared core set

Model: IFR-B-640×512



Product description

With the development of detection technology, the precision and sensitivity of infrared detection are getting higher and higher, but due to the limitation of the inherent characteristics of traditional infrared signals, the probability of target discovery and identification is difficult to improve. The infrared polarization imaging technology can comprehensively obtain multi-dimensional feature information such as the intensity, polarization and image of the target, effectively improve the contrast between the target and the background, highlight the details of the target, enhance the target recognition effect, and effectively identify infrared camouflage targets under low contrast. , distinguish natural background from man-made objects, etc.

Technical indicators

Item category	Basic parameters
Detector	Vanadium oxide uncooled focal plane detector
Resolution	640×512
Cell spacing	17μm
Working band	8μm-14μm
Power consumption	≤1.8W
Power supply range	DC6-15V
Start time	≤10s
Polarized form	Built-in integrated
Polarization direction	0°、45°、90°、135° or 0°、45°、90°
Operating temperature	-40℃~+60℃
Storage temperature	-50℃~+70℃



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NETD	$\leq 50\text{mK}(@F/1,25^{\circ}\text{C})$
Frame rate	50Hz
Video output	1 channel analog video output, PAL system; 1 channel digital video output, camera link basic mode
Communication method	UART, RS232 (choose one of two, UART silent level is 3.3V)
Main control functions	Manual shutter correction, etc.
Weight	$\leq 95\text{g}$ (excluding camera link standard interface)

