

DRK640

Dual-Spectrum Fusion Module
Specification V1.0



Product Model: M2V6

Functional Specifications

Model		DRK640	
Lens Specifications	Image	Thermal Imaging	Low-Light
	Focal Length (mm)	9.1mm	6mm
	Field of View(FOV)	45.8° ×37.3°	56.1°*43.6°
	Detection Distance	910m	1020m
	Recognition Distance	228m	340m
	Identification Distance	114m	170m
Detector Specifications	Resolution	640*512 (Effective FPA)	Megapixel HD
	Detector Type	Uncooled Focal Plane Array Detector (VOx - Vanadium Oxide)	
	Spectral Response	8~14um	
	Pixel Pitch	12um	
	NETD	≤25mK(f/1.0 50Hz 300K)	
	Frame Rate	50Hz	
Interface Specifications	Analog Video Interface	CVBS(PAL Format)	
	Control Interface	UART (Baud Rate: 115200)	
	Interface Specification	SMD,P=1.25mm-5P	
Function Specifications	Pseudo-color Modes	White Hot, Black Hot, Red Hot, Iron Red, etc.	
	Mode Selection	Fusion (default), Low-Light, Thermal, etc.	
	Fusion Mode	Forest, Urban, etc.	
	Edge Outline Selection	Supports Multiple Color Adjustments	
	Infrared Fusion Ratio	Supports Multiple Level Adjustments	
	Low-Light Detail Weight	Supports Multiple Level Adjustments	
	Lid Calibration	Supports Serial Communication Protocol	
	Non-Uniformity Correction (NUC)	Supports Serial Communication Protocol	
Physical Characteristics	Power Supply Input	4.5v~27v	
	Operating Temperature	-20°c~+60°c	
	Power Consumption	≥ 1.5w	
	Shock	80g @ 4ms	
	Dimension	39 (L) × 21 (W) × 44.5 mm (H) (including lens and connector)	
	Weight	46.5g	

Dimension Specifications / Interface

<p>Dimensions (vary by version)</p>	
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<p>Interface Definition</p>		<p>5pin/1.25 Terminal</p>
		<p>1: RX</p>
		<p>2: TX</p>
		<p>3: CVBS</p>
		<p>4: GND</p>
		<p>5: 4.5-27V</p>