

W6 Series

Multifunctional Thermal Imaging Chip

Specification Version V1.0



Product Model: W 6

Functional
parameter

Model		W6-UC-4	W6-UC-6.8	W6-UC-9
Lens Parameters	Lens focal length (mm)	4mm	6.8mm	9mm
	Angle of field °	87.7*75	58.9*48.6	46.2*37.7
	Discovery Distance	400m	680m	900m
	Recognition Distance	100m	170m	225m
	Resolving distance	50m	85m	113m
Detector Parameters	Sensor Type	(Non-cooled focal plane detector) Vanadium oxide		
	Spectral response	8~14um		
	Pixel	12um		
	Array Size	640×512 (effective surface array)		
	NETD	≤25mK@25℃,F#1.0,25Hz		
	Detector Frame Rate	50Hz		
Interface parameters	Analog Image Interface	CVBS (PAL format)		
	Control interface	UART (baud rate: 115200)		
	Interface Specifications	SMD,P=1.25mm-5P		
Functional parameter	Color Blending Mode	White Heat (Default), Black Heat, Red Heat, Iron Red, etc.		
	Image Enhancement Mode	Supports adjustment		
	Luminance	Supports adjustment		
	Contrast ratio	Supports adjustment		
	Electronic Zoom	1X to 8X zoom		
	Screen Mode	With gear selection, automatic shifting		
	Pot Lid Calibration	Supports the UART serial port protocol		
	Non-uniformity Correction (NUC)	Supports the UART serial port protocol		
Physical characteristics	Power Input	5v~18v		
	Working temperature	-20℃~+60℃		
	Power dissipation	≤0.8w		
	Impact	80g @ 4ms		
	Weight	25.5g		
	Size (refer to the 2D/3D drawings for exact dimensions)	21mm*21mm*34.2mm		
	Secondary Development	/		

Size Specifications/Interface
Definitions

Interface Definition		5-pin/1.25-terminal
		1: RX
		2: TX
		3: CVBS
		4: GND
		5: 5V-18V