

N 3 Series

Multifunctional Thermal Imaging Chip

Specification Version V1.0



Product Model: N3-C

functional parameter

Model		N3-C-4	N3-C-9.1
Lens parameters support multiple lens configurations	Lens focal length (mm)	4mm	9.1mm
	Angle of field °	59.9*46.7°	28.4*21.5°
	Discovery Distance	400m	910m
	Recognition Distance	100m	228m
	Resolving distance	50m	114m
Detector Parameters	Sensor Type	(Non-cooled focal plane detector) Vanadium oxide	
	Spectral response	8~14um	
	Pixel	12um	
	Array Size	384×288 (effective surface array)	
	NETD	≤25mK(f/1.0 50Hz 300K)	
	Detector Frame Rate	50Hz	
Interface parameters	Analog Image Interface	CVBS (PAL format)	
	Control interface	UART (baud rate: 500000)	
	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 a gear selector, it automatically changes gears.	
	Pot Lid Calibration	Supports user host computers connected via a UART serial port	
	Non-uniformity Correction (NUC)	Supports user host computers via the UART serial port	
Physical characteristics	Power Input	4.5v~27v	
	Working temperature	-20℃~+60℃	
	Power dissipation	≤0.6w	
	Impact	80g @ 4ms	
	Weight	26.5g	
	Size (refer to the 2D/3D drawings for exact dimensions)	21mm*21mm*36mm	
	Secondary Development	/	

Size Specifications/Interface
Definitions

Interface Definition		5-pin/1.25-terminal
		1: RX
		2: TX
		3: CVBS
		4: GND
		5: 4.5-27V