

Q3 Series

Multifunctional Thermal Imaging Chip

Specification Version V1.0



Product Model: Q3-U

functional parameter

Model		Q3-U-4	Q3-U-9
Lens parameters support multiple lens configurations	Lens focal length (mm)	4mm	9mm
	Angle of field °	59.9*46.7°	28.7*21.7°
	Discovery Distance	400m	900m
	Recognition Distance	100m	225m
	Resolving distance	50m	113m
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	USB、UVC	
	Control interface	USB	
	Interface Specifications	SMD,P=0.8mm-4P	
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 USB-connected host computers	
	Non-uniformity Correction (NUC)	Supports USB-connected host computers	
Physical characteristics	Power Input	USB(5V)	
	Working temperature	-20°C~ +60°C	
	Power dissipation	≤0.8w	
	Impact	80g @ 4ms	
	Weight	21g	
	Size (refer to the 2D/3D drawings for exact dimensions)	21mm*21mm*29.5mm	
	Secondary Development	Supports USB-connected host computers	

Size Specifications/Interface Definitions

Interface Definition		4-pin/0.8-terminal
		1: VCC
		2: GND
		3: DP
		4: DM