

640\*512 Thermal Imaging UVC

Temperature Measurement Cam



Key Features

- Thermal imaging Resolution: 640\*512;
- Intelligent gain control algorithm, detail hybrid enhancement algorithm, 3D noise reduction algorithm, and 10 kinds of false colors;
- Temperature measurement range: -20℃ to 150℃;
- Full-screen positioning of the highest and lowest temperatures, and display of the center temperature;
- SDK development kit is provided to facilitate secondary development and integration;
- It is used in the integration of fire helmets, night vision devices, handheld devices, traversers and other equipment.

Technical parameters

Model	SVN-U612TP
Sensor	
Type	Vanadium oxide uncooled focal plane detector
Image resolution	640*512
Cell distance	12μm
NETD	≦ 40mK@25℃
Response bands	8~14μm
Package type	Ceramic package
Lens type	
Lens (optional)	Field of view (FOV)
9mm	46.2°(H)×37.7°(V)
13mm	32.9°(H)×26.6°(V)
19mm	22.9°(H)×18.4°(V)
25mm	17.5°(H)×14.0°(V)
Image processing	
Main stream image	640*512, 25Hz
Boot time	10s
Image processing	Non-uniformity correction, intelligent gain control, digital detail blending enhancement, 3D noise reduction
Palette	Support 10 color palettes such as black hot, white hot, iron red, rainbow / customizable
Image mirroring	Left and right, up and down, center
System features	
OSD menu	Support
language of the system	English

Temperature measurement function	Full-screen maximum temperature positioning, minimum temperature positioning, and center temperature display
Temperature measurement range	-20℃~150℃
<b>Data interface</b>	
Video output	UVC output
Communication interfaces	UART, type-C
<b>Power supply</b>	
Power supply range	DC5V
Typical power consumption	1.6W
<b>Physical properties</b>	
Product Dimensions (Without Lens)	26mm*26mm*36.7mm
Weight (without accessories)	30.0g
<b>Environmental adaptability</b>	
Operating temperature/℃	-30℃ ~ +60℃
Storage temperature/℃	-45℃ ~ +75℃
Humidity/RH	≤95%

Structural dimensions

