GALLERY

-

-

PRODUCT DESCRIPTION

Visible Light Camera Digital Infrared Imager High Temperature Thermometer HIR-4R

Product Features and Advantages
- State of the art 17µm384*288 microbolometers, superior image quality and thermal sensitivity(<40mk);
- Low power consumption, no TEC and Heater operation;
- With a 5-million pixels visible light camera, Precise fusion with infrared images;
- With DDE algorithm , clearer details and 10 palettes.;
- 3.5 inch touch screen;
- Auto focus;
- Battery life up to 6 hours;
- Offline analysis software.

Technical Specification

Detector	
Detector Type	Focal Plane Array, Uncooled Microbolometer
Spectral Band	8~14µm
Pixel Resolution	384×288
Pixel Size	25µm
Maximum Frame Rate	50Hz
Measurement & Imaging Performance	
Temperature Ranges	To see the"HIR-4R temperature & model index"
Accuracy	
Thermal Sensitivity(NETD)	
Field of View	To see the "HIR-4R optional lens index"
Spatial Resolution	
Visible Light Camera	5-million pixels, 62°Field of View
LCD	3.5 inch ,640*480 touch screen
Focusing	Manual Focus / Auto Focus
Clear imaging range	0.3m~∞
Background Temperature Correction Radiance Correction	Auto Correction by User Background Temperature Input ,0.01~1
Optical Filter/Window Correction	Auto Correction by User Transmission Input
Display mode	Full infrared, full visible, picture in picture, fusion (proportional adjustable), color warning
Temperature Measurement Mode	Real Time Central Temperature Display,high and low temperature tracking,User Defined Line/Probes of Interest
Automatic Alarming	User Defined Alarming Threshold
Frame Freeze	Supported
Image Enhancement	Detail Enhancement Technology

Palettes	10 Palettes: including Grayscale, Grayscale inverted, Ironbow, Hot metal, etc.
Digital Zoom	2X,4X
Data Storage	
TF card	32GB
Temperature data storage	Self defined MGT format, dealing with offline software Thermoscope
Video Storage	H.264
Report Generation	Word format with user guide
Voice Annotation	60 seconds
Text Annotation	Supported
Environmental parameters	
Operating Temperature	-30~60°C,to see the next page
Storage Temperature	-40~80°C
Humidity	≤85%(Non-condensing)
Enclosure rating	IP54
Shock	25G,IEC68-2-29
Shake	2G,IEC68-2-6
Electromagnetic Compatibility	Comply with CE/FCC standards
Others	
Real-time temperature data transmission	Ethernet(Optional)
Video Output	PAL/NTSC(Optional)
Image And Video Export	USB interface or card reader
Laser Indication	Yes
External Power Supply	DC 12V
Battery	Rechargeable lithium battery
Dimension	148mm(L)×99mm(W)×247mm(H)
Weight	0.6kg(Include 25mm auto len)

HIR-4R temperature & model index

Model	Temperature range	NETD	Accuracy	Environment temperature	Note
HIR-4R	-20~150**°C**	<60 **mK**	2**°C**or 2%	-10~50**°C**	Conventional type
HIR-4R3	-20~300**°C**	<100 **mK**	2**°C**or 2%	-10~50**°C**	Medium temperature type
HIR-4R5	0~500**°C**	150**mK**	2**°C**or 2%	0~50**°C**	High temperature type
HIR-4R10	150~1000**°C**		2%	0~50**°C**	High temperature type
HIR-4R16	250~1600**°C**		2%	0~50**°C**	High temperature type
Please contact us for the rest temperature range.					

HIR-4R optional lens index

Focus	FOV	Spatial resolution	Human detection/recognition/recognition distance	Vehicle detection distance
15mm	26°×20°	1.13 mrad	540m/140m/70m	1100m
25mm	15°×11.3°	0.68 mrad	850m/210m/110m	1700m
50mm(Use double mirror)	7.5°×5.6°	0.34 mrad	1500m/380m/190m	2800m
Please contact us for the rest FOV				