

**Low** cost  
**High** performance

**Easy for your work !**

**EasIR™-1** *New*

**EasIR™-2** *New*

**EasIR™-4**



**EasIR™** is an easy-to-use infrared camera.

- Electrical Inspection
- Building Diagnostics
- Technical Diagnostics
- Veterinarian Helper
- Predictive and Preventative Maintenance

# TECHNICAL SPECIFICATIONS

## EasIR™-4

## EasIR™-2

## EasIR™-1

### Imaging Performance

#### Thermal

Detector Type	Uncooled FPA Microbolometer	Uncooled FPA Microbolometer	Uncooled FPA Microbolometer
Spectral Range	8 to 14 $\mu\text{m}$	8 to 14 $\mu\text{m}$	8 to 14 $\mu\text{m}$
Pixels	160 x 120, 25 $\mu\text{m}$	160 x 120, 25 $\mu\text{m}$	160 x 120, 25 $\mu\text{m}$
Sensitivity	0.1 $^{\circ}\text{C}$ @30 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$ @30 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$ @30 $^{\circ}\text{C}$
Lens/ FOV	11mm 20.6 $^{\circ}$ X 15.5 $^{\circ}$	11mm 20.6 $^{\circ}$ X 15.5 $^{\circ}$	11mm 20.6 $^{\circ}$ X 15.5 $^{\circ}$
Focus	Automatic and motorised (thermal & visual)	motorised (thermal )	motorised (thermal )
Image Frequency	50HZ PAL/ 60HZ NTSC	50HZ	50HZ
Electronic Zoom	X2	X2	X2
Palette	8	6	4

#### Visual

Built-in Digital Video	CMOS Sensor, 1600x1200 pixels(2Mpixels), 2 <sup>24</sup> true colors	CMOS Sensor, 1600x1200 pixels(2Mpixels), 2 <sup>24</sup> true colors	N/A
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### Imaging Display

External Display	3.6" TFT LCD screen	3.6" TFT LCD screen	3.6" TFT LCD screen
Video Output	PAL/NTSC	N/A	N/A
Infra Fusion	Visual and IR blending	Visual and IR blending	N/A
Live thermal video recording	video recording via USB to PC	N/A	N/A
Built-in Flash	Yes	Yes	N/A

### Measurement

Temperature Range	-20 $^{\circ}\text{C}$ to 250 $^{\circ}\text{C}$ (350 $^{\circ}\text{C}$ , 1200 $^{\circ}\text{C}$ optional)	-20 $^{\circ}\text{C}$ to 250 $^{\circ}\text{C}$ (350 $^{\circ}\text{C}$ , 1200 $^{\circ}\text{C}$ optional)	-20 $^{\circ}\text{C}$ to 250 $^{\circ}\text{C}$
Accuracy	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading
Measurement modes	Hot/cold point mark and center point	Hot/cold point mark and center point	Hot/cold point mark and center point
Emissivity Correction	Variable from 0.01 to 1.00, on-screen	Variable from 0.01 to 1.00, on-screen	Variable from 0.01 to 1.00, on-screen
Measurement Features	Automatic correction based on distance, relative humidity, atmospheric transmission and external optics	Automatic correction based on distance, relative humidity, atmospheric transmission and external optics	Automatic correction based on distance, relative humidity, atmospheric transmission and external optics

### Image Storage

Media	Removable 2GB Mini SD card	Removable 2GB Mini SD card	Removable 2GB Mini SD card
File Format	JPEG with analysis records	JPEG with analysis records	JPEG with analysis records
Number of Images Stored	Up to 1000	Up to 1000	Up to 1000
Voice Annotation	60 s / image	N/A	N/A

### Laser Locator

Classification Type	Class 2 semiconductor laser	Class 2 semiconductor laser	N/A
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### Man-Mechine Communication

USB2.0	For video and image transfer	For image transfer only	For image transfer only
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### Power System

Battery Type	AA Alkaline battery, or AA Rechargeable Battery	AA Alkaline battery , or AA Rechargeable Battery	AA Alkaline battery , or AA Rechargeable Battery
Charging System	In camera or in battery charger	In camera or in battery charger	In camera or in battery charger
Battery Operating Time	Over 2 hours	Over 2 hours	Over 2 hours
External Power Operation	AC adapter 110/220VAC, 50/60Hz	AC adapter 110/220VAC, 50/60Hz	AC adapter 110/220VAC, 50/60Hz

### Environment

Operating Temperature	-10 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$	-10 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$	-10 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$
Storage Temperature	-20 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$	-20 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$	-20 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$
Humidity	Operating and storing 10% to 95%, non-condensing	Operating and storing 10% to 95%, non-condensing	Operating and storing 10% to 95%, non-condensing
Encapsulation	IP54 IEC 529 housing	IP54 IEC 529 housing	IP54 IEC 529 housing
Shock	Operational: 25G, IEC68-2-29	Operational: 25G, IEC68-2-29	Operational: 25G, IEC68-2-29
Vibration	Operational: 2G; IEC68-2-6	Operational: 2G; IEC68-2-6	Operational: 2G; IEC68-2-6

### Physical Characteristics

Size	111mmX124mmX240mm	111mmX124mmX240mm	111mmX124mmX240mm
Weight	0.73Kg (including battery)	0.73Kg (including battery)	0.73Kg (including battery)

