

High Performance Thermal Imager



Specification Table

| Parameter | Range |
|---------------------------------|---|
| Imaging and Optical Data | |
| IR Resolution | 80 × 80 pixels |
| Field of View (FOV) | 17° × 17° |
| Minimum Focus Distance | 500mm |
| Spatial resolution (IFOV) | 3.78mrad |
| Thermal Sensitivity (NETD) | < 0.1°C @ +30°C (+86°F) / 100mK |
| Image frequency | 50Hz |
| Focus Mode | Manual |
| Zoom | 1 ~ 32x continuous, Digital Zoom |
| Focal Length | 9mm |
| Focal Plane Array (FPA) | Uncooled Microbolometer |
| Spectral Range | 8 - 14μm |
| Image Presentation | |
| Display | 2.8 Inch LCD, 240 × 320 pixels |
| Image Modes | IR Image, Visual Image, Image Fusion |
| Colour Palettes | IRON, Rainbow, Grey, Grey Inverted |
| Measurements | |
| Object Temperature Range | -20°C to +150°C (+4°F to +302°F) |
| | 0°C to +350°C (+32°F to +662°F) |
| Accuracy | ±2°C (±3.6°F) or ±2% of reading (Environment Temperature 10°C to +35°C, Object Temperature >0°C) |

www.element14.com
www.farnell.com
www.newark.com
www.cpc.co.uk



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| Parameter | Range |
|--------------------------------------|---|
| Storage of Videos | |
| Storage Media | 8GB Micro SD Card |
| Video Storage Format | Standard MPEG-4 Encode, 1280x960 @ 30fps, On Memory Card > 60 minutes |
| Video Storage Mode | IR/Visual Images; Simultaneous Storage of IR and Visual Images |
| Storage of Images | |
| Image Storage Format | Standard JPEG, Including Measurement Data, On Memory Card > 6000 Pictures |
| Image Storage Mode | IR/Visual Images; Simultaneous Storage of IR and Visual Images |
| Digital Camera | |
| Built-in Digital Camera | 5 Mega Pixels |
| Built-in Digital Lens Data | FOV 59° |
| Data Communication Interfaces | |
| Interfaces | USB-Mini, Audio, HDMI |
| USB | Data Transform between Camera and PC |
| | Live Video between Camera and PC |
| Video Out | HDMI |
| Power System | |
| Battery | Li-Ion Battery, 4 Hours Operating Time |
| Input Voltage | DC 5V |
| Charging System | In Camera (AC Adapter) |
| Power Management | Automatic Shutdown |
| Environment Data | |
| Operating Temperature | -15°C to +50°C (5°F to +122°F) |
| Storage Temperature | -40°C to +70°C (-40°F to +158°F) |
| Humidity (Operating & Storage) | 10% ~ 90% |
| Drop Test | 2m |
| Bump | 25g (IEC 60068-2-29) |
| Vibration | 2g (IEC 60068-2-6) |
| Physical Data | |
| Camera Weight (Including Battery) | <500g |
| Camera Size (L × W × H) | 224mm × 77mm × 96mm |

Part Number Table

| Description | Part Number |
|---------------------------------|-------------|
| High Performance Thermal Imager | ST-980 |

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