

Fotric TK6 Datasheet

■ Specifications

| Basic parameters | |
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| Infrared Resolution | 384*288 |
| Detector Type | Uncooled Infrared Focal Plane Detector |
| Thermal Sensitivity (NETD) | <40mK@30°C |
| Pixel Pitch | 17μm |
| Spectral Response Range | 8~14μm |
| Image Frame Rate | 30Hz |
| Field of View (FOV) | 25°*19° |
| Spatial Resolution (IFOV) | 1.14mrad |
| Minimum Imaging Distance | 0.15m |
| Focal length | 15mm |
| Focusing Method | Manual focus |
| Measurement and analysis | |
| Temperature Measurement Range | -20~550°C |
| Temperature Span | -20~120°C, 0~550°C |
| Temperature Measurement Accuracy | ±2°C or 2%, whichever is greater (environmental temperature 15~35°C, target temperature >0°C, calibration at 1 meter) |
| Temperature Measurement Spot | 20 |
| Temperature Measurement Line | 10 |
| Temperature Measurement Box | 10 |
| Global Temperature Correction | Support temperature measurement parameter correction: emissivity, ambient temperature, reflected temperature, relative humidity, target distance, infrared window parameters(temperature and transmittance) . |
| Analysis software | AnalyzIR professional thermal imaging analysis software |
| Image display | |
| Display screen | 3.5-inch, 640*480 pixels, IPS LCD touchscreen with Gorilla explosion-proof cover glass |
| Image mode | Thermal Image, Blend (T-DEF®), PIP, Digital Camera. |
| Blend Mode(T-DEF®) | Adjustable infrared image transparency from 0% to 100% in blend mode. |
| Picture-in-Picture | Overlay thermal image on visible light image |
| Palette | Supports 6 general color palettes: Rain, Iron, Grey, Rainbow, GreyRed, GlowBow |
| Span Mode | Supports automatic adjustment of temperature span Supports manual adjustment of temperature span (minimum 2°C) |
| Color Alarm | Supports color alarms for above, below, and between temperatures |
| Image overlay information | Display global maximum and minimum temperatures, maximum, minimum, and average temperatures within the measurement area, emissivity, measurement parameters, lens information, and date and time information |
| High/Low Temperature Tracking | Automatically tracks the highest and lowest temperature points within a marked measurement area |

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| Normalized Histogram Color Distribution(T-TWB®) | Optimize display of images with large dynamic range to show more details |
| Imaging function | |
| Digital camera | 5MP industrial-grade digital camera |
| Storage card | TF card (FAT32 file system), hot-swappable, supports up to 32GB |
| Single-frame capture | In thermal, blend (T-DEF®), and picture-in-picture modes: saves an analyzable thermal image In visible light mode: saves a visible light image Thermal images in thermal, blend (T-DEF®), and picture-in-picture modes include a visible image aligned at a specified distance |
| Image format | jpg (thermal image), jpg (visible light image) |
| On-device gallery | Supports viewing images in the gallery by icon. Supports image preview in the gallery. |
| Auxiliary functions | |
| Software and firmware upgrades | Support local upgrade via TF card |
| Laser | Laser pointer: Class: Class 2, Wavelength: 650nm, Power: <1mW |
| LED illumination lamp | Support flashlight illumination and flash mode |
| Power system | |
| Battery type | 3.6V, 5000mAh Rechargeable Lithium Battery, Field-Replaceable |
| Battery operating time | Continuous Operating Time ≥ 4 Hours (Actual runtime depends on environment and usage conditions) |
| Charging method | Supports charging via dock charger and direct charging via USB Type-C interface |
| Charging time | Charge up to 90% in 2.5 hours |
| Energy management | Auto shutdown, auto screen off, manual screen off |
| External power supply | Supports power supply to the device via USB Type-C interface |
| Reliability and certification | |
| Safety standards | GB/T 7247.1/IEC 60825-1 |
| Electromagnetic compatibility | GB/T 18268.1/EN IEC 61326-1 |
| Protection rating | IP54(GB/T 4208/IEC 60529) |
| Drop resistance | Designed for 2-meter drop resistance |
| Shock resistance | 25g(GB/T 2423.5/IEC 60068-2-27) |
| Vibration resistance | 2g(GB/T 2423.10/IEC 60068-2-6) |
| RoHS Directive | Compliant |
| Physical parameters | |
| Operating temperature | -20~50°C |
| Storage temperature | -40~70°C, without battery |
| Relative humidity | <95%RH |
| Dimensions | 243mm*95mm*142mm |
| Weight | 720g |
| Battery weight | 150g |
| Housing material | Hard plastic: PC+ABS, soft plastic: TPE, magnesium alloy. |
| Mounting Method | Support tripod connection with UNC 1/4-20 interface |
| Warranty and maintenance | |

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| Warranty period | 1-year warranty for the whole unit |
| Recommended calibration interval | 2 Years |
| Supported languages | |
| Supported languages | English |
| Standard product configuration | |
| Standard configuration | Main unit ×1 □ Rechargeable Lithium Battery □ Charging Dock □ Power Adapter □ USB Type-C to USB cable ×1 □ 32GB TF card □ Calibration certificate □ Quick start guide □ Packing list |

■ Lens

| Lens | Lens Parameters | | | | | |
|------|---------------------|---------------------------|--------------------------|-------------------------------|--------------|--|
| | Field of View (FOV) | Spatial Resolution (IFOV) | Minimum Imaging Distance | Minimum Registration Distance | Focal length | Temperature Span |
| L25 | 25°*19° | 1.14mrad | 0.15m | 0.5m | 15mm | -20~120°C, 0~550°C (calibrated at 1 m) |

■ Available Models

A252067-B001 Fotric TK6-L25

* For additional configurations, please contact us directly.

■ Accessories

● Optional

C251242 Rechargeable Lithium Battery

C251245 Charging Dock

C251237 Power Adapter

C251333 Portable Soft Bag

C251338 Hard Carrying Case

C251450 Temperature calibration service □ ≤700°C □ each temperature range □

C251451

