

| FOTRIC Thermal Intelligence | FOTRIC 320M SERIES | | 326M | | 325M | | 323M | | 322M | |
|--|--|-----------|---|-----------|---|-----------|--|-----------|-------------|--|
| Core parameters | | | | | | | | | | |
| Thermal Resolution | 384*288 | | 320*240 | | 264*198 | | 160*120 | | | |
| Super Resolution(SR) | 768*576 | | 640*480 | | 528*396 | | 320*240 | | | |
| Thermal Sensitivity (NETD) | 40mk(0.04°C) | | 40mk(0.04°C) | | 40mk(0.04°C) | | 60mk(0.06°C) | | | |
| Lens Options(Not interchangeable) - Field of View | 49°x36.8° | 25°x19° | 49°x36.8° | 25°x19° | 49°x36.8° | 25°x19° | 46.5°x35° | 25°x19° | | |
| IFOV (spatial resolution) | 2.27 mrad | 1.14 mrad | 2.78 mrad | 1.37 mrad | 3.40 mrad | 1.66 mrad | 5.15 mrad | 2.73 mrad | | |
| Focal length | f7.5 | f15 | f7.5 | f15 | f7.5 | f15 | f3.3 | f7.5 | | |
| Minimum Focus Distance | 0.1 m | 0.15 m | 0.1 m | 0.15 m | 0.1 m | 0.15 m | 0.1 m | 0.1 m | | |
| Focus Mode | Manual focus, and 0.5 meters focus free (available for 49° and 46.5° lens) | | | | | | | | | |
| Frame Rate | 30Hz | | | | | | | | | |
| AI programmable key | Support | | | | | | | | | |
| Wi-Fi & Bluetooth | Support | | | | | | | | | |
| Wi-Fi FTP Transfer | Transfer imaging data to computer, by Wi-Fi FTP | | | | | | | | | |
| Geographic Location | Support, GPS | | | | | | | | | |
| Thermal and visible light Image fusion | Support,transparency 0% ~100% | | | | | | | | | |
| Picture in Picture | Support, resizable and adjustable | | | | | | | | | |
| TWB Non-linear thermal color display | Support | | | | | | | | | |
| Build-in digital camera | 8 MP industrial camera | | | | | | | | | |
| LED flash lamp | Support | | | | | | | | | |
| Temperature Analysis | | | | | | | | | | |
| Temperature Range | -20 °C ~ 650°C | | -20 °C ~ 650°C | | -20 °C ~ 650°C | | -20 °C ~ 550°C | | | |
| | -20 °C ~ 120°C, 0 °C ~ 650°C | | -20 °C ~ 120°C, 0 °C ~ 650°C | | -20 °C ~ 120°C, 0 °C ~ 650°C | | -20 °C ~ 120°C, 0 °C ~ 650°C | | | |
| Intelligent Range Auto-fit | Support | | | | | | | | | |
| Measurement Tools | Spot : 10 Line : 2 Rectangle/Circle : 8 | | Spot : 10 Line : 2 Rectangle/Circle : 8 | | Spot : 10 Line : 2 Rectangle/Circle : 8 | | Spot : 6 Line : 1 Rectangle/Circle : 4 | | | |
| Measurement Accuracy | ±2 °C or 2% , whichever is greater (at 25 °C ambient temperature) | | | | | | | | | |
| Emissivity | Support | | | | | | | | | |
| Ambient Temp | Support | | | | | | | | | |
| Reflected Temp | Support | | | | | | | | | |
| Relative Humidity | Support | | | | | | | | | |
| Measurement Distance | Support | | | | | | | | | |
| IR Window Compensation | Support | | | | | | | | | |
| Temperature Rise & Difference | Support | | | | | | | | | |
| ROI Sound Alarm | Support, via Speaker or Bluetooth headset | | | | | | | | | |
| ROI Partial Emissivity | Support | | | | | | | | | |
| Image Display | | | | | | | | | | |
| Display Screen | 3.5 inch Touch Screen | | | | | | | | | |
| Image Mode | Thermal, Visible light, Picture in Picture & Image Fusion | | | | | | | | | |
| Palettes | 8 Grey, Iron, Rainbow, Grey-red, Rain, GlowBow, Medical, Prism | | | | | | | | | |
| Inverted Palettes | Support | | | | | | | | | |
| Isotherm/Color Alarms (Above, Below, and in-between) | Support | | | | | | | | | |
| Auto Scale | Support | | | | | | | | | |
| Manual Scale | Support | | | | | | | | | |
| Touch Scale | Support | | | | | | | | | |
| Minimum Temperature Span | Auto:3°C , Manual:2°C | | | | | | | | | |
| Storage & Analysis | | | | | | | | | | |
| Storage Card | TF card, 64GB | | | | | | | | | |
| Capture Mode | Single frame capture and Time-lapse | | | | | | | | | |
| Video Recording | Radiometric thermal video(IRS.) and MP4 video recording. | | | | | | | | | |
| File Format | Radiometric thermal photo(JPEG.), visible light photo, radiometric thermal video(IRS.) and MP4 video | | | | | | | | | |
| Gallery | Support | | | | | | | | | |
| On screen Analysis | Support | | | | | | | | | |
| Voice Annotation | Support, record up to 120 seconds; via Mic or Bluetooth headset | | | | | | | | | |
| Text Annotation (no storage limit) | Support | | | | | | | | | |
| Tags | Support | | | | | | | | | |
| Favorite (filter favorite files) | Support | | | | | | | | | |
| QR-code scan, saved in Tags | Support | | | | | | | | | |
| PC analysis and Report Software | Fotric AnalyzIR software, FREE | | | | | | | | | |
| Remote Display and Analysis | Support | | | | | | | | | |
| Power System | | | | | | | | | | |
| Battery | 3.6V, 5000mAh Li-battery | | | | | | | | | |
| Battery operation time | ≥4 hours | | ≥4 hours | | ≥4 hours | | ≥5 hours | | | |

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|-------------------------------------|---|
| Battery charging time | 3.5 hours to full-charge by battery dock. 3 hours to full-charge by connecting to camera. |
| Charging methods | Support battery dock adaptor or Type-C interface on camera. |
| Power supply | Support Type-C interface charging method, from power adaptor or computer. |
| Auto screen-off | Support |
| General Specifications | |
| Spectral range | ~7-14μm |
| IR Detector type | Polysilicon uncooled FPA infrared detector |
| Detector Pitch | 17μm |
| Digital Zoom | 1-8 times, continuous |
| Wi-Fi Connection | Support 2.4GHz&5GH channel. Support 802.11a/b/g/n/ac |
| Bluetooth Connection | BT4.2 LE. Support connect to Bluetooth headset |
| USB Interface | USB Type-C type : USB 3.0 / 2.0 compliant. Support USB OTG |
| HDMI Interface | Micro HDMI type. HDMI 1.4 compliant. Support 1080P imaging video streaming in 60Hz. |
| Storage Card Interface | TF Card. Support Hot-plug. |
| Laser pointer | Level2 : wavelength : 635nm ; Power : <1mW Class2 Laser Product: IEC 60825-1 |
| Operation temperature | -20°C to 50°C |
| Storage temperature | -40°C to 70°C, without battery |
| Humidity (Operation and Storage) | <95%RH |
| Soft portable bag | Support |
| Hard Transportation case | Support |
| Safety | SELV relay (GB 4943.1/IEC60950-1) |
| Electromagnetic Compatibility | CE: EN 61326-1:2013 Class A EN 61000-3-2:2014 EN 61000-3-3:2013 GB/T17626.2/IEC61000-4-2 Electromagnetic compatibility (Electrostatic discharge test) GB/T17626.3/IEC61000-4-3 Electromagnetic compatibility (Radiated susceptibility test of radio frequency electromagnetic field) FCC: FCC 47 CFR Part 15 ClassA(emission) KC: EN61326-1 (ClassA) Electrical equipment for measurement, control and laboratory use-EMC requirements |
| Vibration | 2g(GB/T 2423.10/IEC 60068-2-6) |
| Shock | 25g(GB/T 2423.5/IEC 60068-2-27) |
| Collision | 10g(GB/T 2423.6/IEC 60068-2-29) with packing |
| Drop | Designed for 2 meters drop test. (GB/T 2423.8/IEC 60068-2-32) |
| Dimension | 243mm*95mm*142mm |
| Weight (include battery) | 730g |
| Enclosure rating | IP54 |
| Tripod interface | UNC 1/4 -20 threaded hole for tripod |
| Warranty | 2 years standard warranty on camera, 10 years for IR detector. |
| Recommended calibration cycle | 2 years |
| Supported languages | English, Spanish, Korean, Traditional Chinese |
| RoHS compliant | Yes |
| Box Contents | FOTRIC 320 handheld thermal camera, Documentations(certificate of inspection, certificate of calibration, warranty card, packing list), Quick-start user manual, USB-Type C cable, Micro-HDMI cable, TF card, TF card reader, Power adaptor, Battery charger dock, 2 pieces of batteries. |
| Body Screening | Support |