

# Specifications

| Core parameters                        | FOTRIC 326M  | FOTRIC 325M         | FOTRIC 323M         | FOTRIC 322M                        |
|--|--|---------------------|---------------------|------------------------------------|
| 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)      | 49°x 36.8° 25°x 19°  | 49°x 36.8° 25°x 19° | 49°x 36.8° 25°x 19° | 49°x 36.8° 25°x 19°                |
| I FOV (spatial resolution)             | 2.27 mrad  | 1.14 mrad           | 2.78 mrad           | 1.37 mrad                          |
| Focal length                           | f 7.5  | f 15                | f 7.5               | f 15                               |
| Minimum Focus Distance                 | 0.1m   | 0.15m               | 0.1m                | 0.15m                              |
| 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 protocol                   |                     |                     |                                    |
| 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  |                     |                     |                                    |
| <b>Temperature Analysis</b>            |  |                     |                     |                                    |
| Temperature Range                      | -20 °C ~ 120°C, 0 °C ~ 650°C   |                     |                     | -20°C~120°C,0°C~550°C              |
| Intelligent Range Auto-fit             | Support  |                     |                     | Support                            |
| Measurement Tools                      | 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  |                     |                     |                                    |
| <b>Image Display</b>                   |  |                     |                     |                                    |
| 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                  | Support (Above, Below, and in-between)                                     |                     |                     |                                    |
| Auto Scale                             | Support  |                     |                     |                                    |
| Manual Scale                           | Support  |                     |                     |                                    |
| Touch Scale                            | Support  |                     |                     |                                    |
| Minimum Temperature Span               | Auto:3°C , Manual:2°C  |                     |                     |                                    |

| Storage & Analysis              | FOTRIC 326M  | FOTRIC 325M | FOTRIC 323M | FOTRIC 322M |
|---------------------------------|--|-------------|-------------|-------------|
| 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  |             |             |             |
| On screen Analysis              | Support  |             |             |             |
| Voice Annotation                | Support, record up to 120 seconds; via Mic or Bluetooth headset  |             |             |             |
| Text Annotation                 | Support  |             |             |             |
| Tags                            | Support, Manual input and QR-code scan   |             |             |             |
| Favorite                        | Support  |             |             |             |
| PC analysis and Report Software | Fotric AnalyzIR software, FREE   |             |             |             |
| Remote Display&Analysis         | Support  |             |             |             |
| <b>Power System</b>             |  |             |             |             |
| Battery                         | 3.6V, 5000mAh Li-battery   |             |             |             |
| Battery operation time          | ≥4 hours   |             |             | ≥5 hours    |
| 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  |             |             |             |
| <b>General Specifications</b>   |  |             |             |             |
| 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  |             |             |             |
| Operation temperature           | -20°C to 50°C  |             |             |             |
| Storage temperature             | -40°C to 70°C, without battery   |             |             |             |
| Humidity                        | <95%RH   |             |             |             |
| Safety                          | SELV relay (GB 4943.1/IEC60950-1)  |             |             |             |
| Electromagnetic Compatibility   | GB/T17626.2/IEC 61000-4-2  |             |             |             |
| 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 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. |             |             |             |