

Fotric TD2eKit Datasheet

■ Specifications

| Basic parameters | |
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| Microphone channels | 64□MEMS Digital Microphone |
| Acoustic image field of view (FOV) | 58°*45° |
| Sound pressure sensitivity | 0.01L/min@0.1MPa□1.5m□φ30μm orifice 0.025L/min@0.3MPa□3.5m□φ30μm orifice 0.045L/min@0.3MPa□4.5m□φ40μm orifice |
| Measured sound pressure range | 10kHz□10~120dB SPL 15kHz□9~120dB SPL 20kHz□7~120dB SPL 25kHz□8~120dB SPL 30kHz□5~120dB SPL 35kHz□3~120dB SPL 40kHz□4~120dB SPL 45kHz□1~120dB SPL 50kHz□1~120dB SPL 55kHz□1~120dB SPL 60kHz□1~120dB SPL 65kHz□-1~120dB SPL 70kHz□0~120dB SPL 75kHz□1~120dB SPL |
| Sound sampling rate | 200kHz |
| Acoustic refresh rate | 15Hz |
| Working distance | 0.3~60m |
| Measurement and analysis | |
| Positioning frequency range | 2–100kHz |
| Frequency range selection | Supports manual adjustment of the frequency range Supports displaying the peak frequency |
| Image display | |
| Display screen | 3.5-inch, 640*480 pixels, IPS LCD touchscreen with Gorilla explosion-proof cover glass |
| Image mode | Single-source, Multi-source, All-source |
| Single sound source | Overlay the acoustic image of the strongest sound pressure region on the visible light image |
| Multiple sound sources | Overlay the acoustic images of multiple strong sound pressure regions on the visible light image |
| All-source Mode | Overlays acoustic images of all high sound pressure regions onto the visible-light image |
| Sensitivity Mode | Noise Suppression Mode, Micro-Detection Mode |
| Noise Suppression Mode | Filters out low-level sounds to reduce environmental interference |
| Micro-Detection Mode | Captures faint sounds to avoid missing potential issues |
| Image overlay information | Displays date and time information |
| Sound pressure tracking | Automatically track the maximum sound pressure with special marking |
| Imaging function | |
| Digital camera | 5MP industrial-grade digital camera |
| Storage card | SD card, hot-swappable, supports up to 1TB |
| Single-frame capture | Save as an acoustic image |

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| Image format | jpg (acoustic image) |
| Freeze Interface | Supports freezing the image for preview |
| On-device gallery | Supports viewing images in the gallery by icon. Supports image preview in the gallery. |
| Data connectivity | |
| USB interface | USB Type-C, compliant with USB 3.0/2.0 standard |
| Auxiliary functions | |
| Software and firmware upgrades | Support local upgrade via TF card |
| 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 ≥ 3 hours (Actual operating time depends on environmental 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 4793.1/EN 61010-1 |
| 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 | -20~45°C |
| Storage temperature | -40~70°C, without battery |
| Relative humidity | <95%RH |
| Dimensions | 249mm*95mm*150mm |
| Weight | 780g |
| Battery weight | 150g |
| Housing material | Hard plastic: PC+ABS, soft rubber: TPE, magnesium alloy, aluminum alloy |
| Mounting Method | Support tripod connection with UNC 1/4-20 interface |
| Warranty and maintenance | |
| Warranty period | 18 month for the whole unit |
| Recommended calibration interval | 2 Years |
| Supported languages | |

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| Supported languages | English, German, French, Spanish, Portuguese, Italian, Polish, Japanese, Korean, Traditional Chinese, Thai |
| Standard product configuration | |
| Standard configuration | Main unit ×1 □ Rechargeable Lithium Battery*2 □ Charging Dock □ Power Adapter □ USB Type-C to USB cable ×1 □ 32GB TF card □ Belt Clip □ Quick start guide □ Packing list □ Portable Soft Bag □ Hard Carrying Case |

■ Lens

■ Available Models

A262382-B001 Fotric TD2eKit

* 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

