

FOTRIC TD2e Datasheet

■ Specifications

Basic parameters	
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

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 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	1-year warranty for the whole unit
Recommended calibration interval	2 Years
Supported languages	

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□Charging Dock□Power Adapter□USB Type-C to USB cable ×1□32GB TF card□Quick start guide□Packing list□Color box
Package Parameters	
Package Type	Packaging Box
Package Size	330mm*145mm*200mm
Package Weight	1.6kg

■ Lens

■ Available Models

A252151-B001 FOTRIC TD2e

* 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

