

**FOTRIC**

Sense the Digital Future

# Give Them Eyes, and Ears

Expand Robots' Sensory System



**FOTRIC TD2 Sense**  
Acoustic Image Module

## Compact In Size



Light and compact, made for mounting on robots



Expand the robot's auditory 'vision'



\*Size can also be customized

## Multiple Inspection Modes



**Leak Monitoring:** Automatically locates and evaluates compressed air leakage volume and vacuum leaks



**Partial Discharge Monitoring Mode:** Diagnosing partial dischargedefects in power equipment



## Real-time Monitoring

**64**

Microphone array & acoustic imaging algorithm

**5 MP**

High-definition industrial cameras. Acoustic and image fusion for more accurate positioning

**2k-65kHz**

Covering multiple industrial sound source types

**0.3-100 m**

Ultra-long working distance



## Dense In Power

**IoT / SCADA / AI**

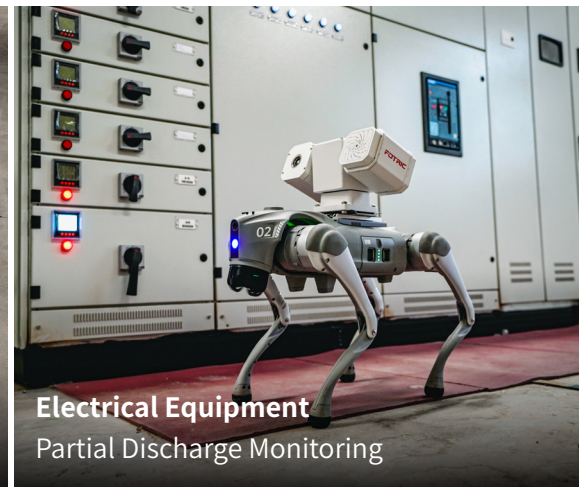
Standard interface for IoT / SCADA / AI

**Detect + Analyze + Output**

In one go

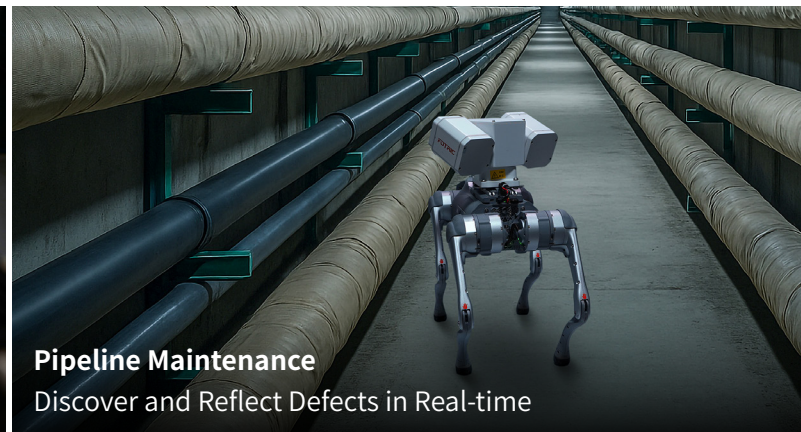


# Applications



**Smart Industries**  
Safety and Energy Monitoring

**Electrical Equipment**  
Partial Discharge Monitoring



**Mechanical Equipment Inspection**  
Automatic Inspection, Remote Diagnosis

**Pipeline Maintenance**  
Discover and Reflect Defects in Real-time

## Safe

Find potential defects and prevent accidents

## Economical

Quantify leakage and cut costs

## Smart

Visualizes sound

**"A Sensor that can Look, as well as Listen."**

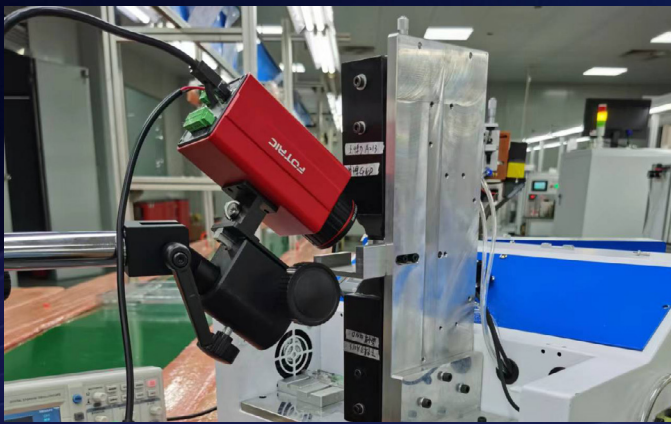
Enables Comprehensive Inspections

# Specifications

Model	TD2 Sense
<b>Basic Parameters</b>	
Microphone Channels	64 MEMS digital microphone
Acoustic Image FOV	66° × 52°
Acoustic Sampling Rate	200kHz
Acoustic Refresh Rate	25Hz
Working Distance	0.3~100m(1~328ft)
Frequency Range	2~65kHz
Detection Mode	Leak Mode: Displays the leakage level; PD Mode: Displays a PRPD diagram
Digital Camera	5-mega pixel
Holographic Stream	Transmits holographic grit data and visible light video stream, FFT diagram, PRPD diagram, and leak evaluation results.
T-FFTD®	Capture instantaneous sound signals and make it stay longer in real-time acoustic display.
<b>Network Connection</b>	
Ethernet Type	10M/100M/1000M Adaptive
Network Protocols	IPv4, HTTP, UPnP, NTP, UDP, TCP, RTSP, RTCP, RTP, DHCP, WebRTC
Connection Method	ONVIF
<b>Power System</b>	
Power Supply	12V/24V DC, PoE
Typical Power Consumption	<5.5W
<b>Reliability</b>	
EMC	GB/T 18268.1/EN IEC 61326-1
Protection	IP65(GB/T 4208/IEC 60529)
Shock	25g(GB/T 2423.5/IEC 60068-2-27)
Vibration	2g(GB/T 2423.10/IEC 60068-2-6)
RoHS Compliant	Yes
<b>Physical Parameters</b>	
Size	91mm*50mm*87mm
Weight	420g
Casing Material	Aluminum alloy
Installation Method	Tripod Mounting: Two 1/4-UNC-20 standard tripod mounting holes Supports rear mounting
<b>Language</b>	
Languages	English,Chinese

# Infrared Thermal Module

It not only captures the temperature of each pixel in real time but also outputs full-field temperature distribution, enabling non-contact, allweather, and comprehensive temperature monitoring. It integrates seamlessly with industrial control systems, providing efficient and reliable data support for equipment safety, energy management, and smart factory operations.



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