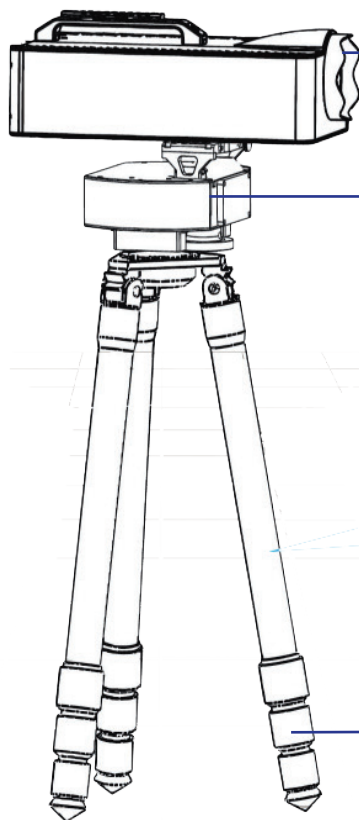


Laser Measurement System

The long-distance laser measurement system is based on the diffuse reflection laser doppler technology and can achieve technical investigation on the target when the location cannot be entered under specific conditions. The equipment adopts the latest developed laser source as core components, efficient trans-mit-receive optical path, all-digital demodulation circuit, deep-learning-based agile demodulation algorithm and other core technologies. Meanwhile a high-precision electric and anti-shake PTZ is designed to improve the convenience and use effect of the equipment.

» System Composition



Host : Laser emission and reception
Sound extraction and restoration

PTZ : Adjust the horizontal and vertical angles of the host to aim at the target

Control : Terminal Host control Video and audio storage and replay

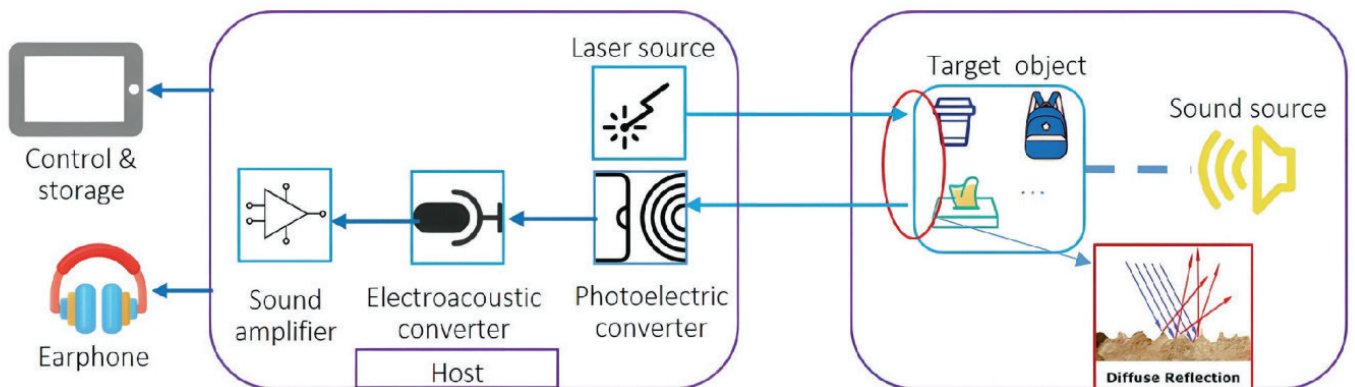
Earphone : Monitor the acquired sound in real time

Tripod : Fix the host to avoid shaking when the host is working

Highlight

- Ultra-long-distance non-contact working mode, high sensitivity, distance up to 500m
- Wide range of media adaptability and application
- Low power laser source and invisible to human eyes, safe and secret
- Good voice pickup performance through window glass
- Compact size and high integration, support single person quick deployment and operation
- All-digital demodulation circuit, information restoration degree is above 95%
- Adopt deep learning and self-adaptive noise reduction algorithms, to reduce the different environmental noise
- Support night vision function, the sensitivity is less than 1lux

» Working Principle



» Technical index

Working distance	up to 500m
Voice frequency range	200Hz~5kHz
Working temperature	0°C ~ +40°C
Weight	approx 20kg
Incident angle through window	+45°
Power target	battery or AC
Optional target	a variety of scatterers that can vibrate