iTest MS865
Drone Carrying Acoustic Camera

● Lightweight design, weighs only 980g

●The only acoustic camera can be carried on drones

● Metamaterial + unique noise reduction algorithm to reduce the noise

● Full coverage of 2kHz-65kHz, automatic adjustment of detection frequency band

●Time domain features and PRPD spectra of PD displayed in real-time on the remote control

● Rapid multi-target scanning and high detection efficiency

iTest MS865 Drone Carrying Acoustic Camera

Drone carrying acoustic camera, DJI PSDK development and fast docking for M300 RTK. Excellent anti-interference and stable performance for all-weather in live detection. Self-developed gimbal adapted to drone communication, highly integrated design. Can be used for pre-maintenance of power equipment such as transmission, distribution and railway lines, petrochemical, forest fire prevention, emergency rescue, industrial, inspection services, and other applications.

Acoustic Parameter

Acoustic Measurements	64 low-noise MEMS microphones
F.O.V.	70°
Dynamic Range	＞120dB
Bandwidth	2kHz-65kHz,
Range Adjustment	Automatic
Frame Rate	25FPS
Measuring Distance	0.3m-130m
Test Objects	Distribution Line Transmission Line Substation

Physical & Battery Data

Dimension	186mm×186mm×55mm
Weight	980g
Port	USB Type-C, USB PD protocol

Battery Duration

Duration	Duration of drone flight

User Interface

Input Device	Remote Control
Resolution	1640×1234 VIDEO
Video Frame Rate	25 fps
Acoustic Image Frame Rate	30 fps

Communication & Storage

External Storage	64GB SD Card,
Internal Storage	8GB, Emergency storage only
Data Storage Format	.jpg .mp4

Camera

F.O.V.	70°
Focal Length	3.04mm(fixed)
Pixels	8 million

Environment Parameters

Working Condition	-10℃-+50℃, 10%-95% Non condensing
Storage Temperature	-20℃-40℃

iTest MS865
Precautions and Examples

What are the advantages of iTest MS865?

● **High Efficiency：** 62° large F.O.V., 25FPS refresh rate, high inspection efficiency.

● **Direct View：** Highly precise algorithms, accurate positioning of PD, and real-time image return.

● **Intelligent：** Offline PD type identification, real-time PRPD spectra, intelligent diagnosis of PD

● **High Noise Immunity：** Anti-noise algorithm + Metamaterial + Noise reduction structure.

● **High Adaptability：** Adapted DJI M300RTK, PSDK development, single person operation.

●**After-sale Service：** 2 year warranty; 24h response; provision of equipment and testing reinforcements

Examples of Transmission Lines

Examples of Distribution Lines (Lead wire)

Examples of Distribution Lines (Porcelain insulator)