# CRY2626G UAV Acoustic Imager

CRY2626G is a UAV acoustic imager that supports ultrasonic frequency band.

The equipment uses microphone array beamforming technology to acquire sound source distribution data, while cooperating with high-definition imager to collect video images in real time, and presenting the dynamic changes of sound sources on the UAV remote control display by fusing sound source distribution data and video images for sound and image.

CRY2626G UAV acoustic imager can help you quickly detect possible pressurized gas leaks in noisy industrial sites; applied to power systems, it can help you quickly identify potential partial discharge fault points.

CRY2626G UAV acoustic imager is made of full aluminum alloy housing, which is rugged and light weight. Adopt DJI SKYPORT interface, easy to disassemble and install. Support photo mode, video mode, flexible recording of operation site data; support large-capacity TF data memory card, test results are quickly exported and reported.

### Efficient

The acoustic imager has a large 62° field of view, equipped with a 2-axis IMU motorized gimbal, 25FPS refresh rate, and is mounted on a UAV to improve the inspection efficiency of long transmission lines.

### Intuitive

With high-precision image fusion algorithm, the location of partial discharge can be accurately located. The drone's remote control display can show the acoustic camera screen in real time, intuitively displaying the partial discharge fault points.

### Intelligent

It has edge computing-based partial discharge type recognition function, which can display PRPD spectrum in real-time during the inspection process, and intelligently diagnose the partial discharge fault type.

### Noise resistance design

Dual protection of noise resistance algorithm and noise reduction structure can easily cope with noise interference and achieve detection of weak signals.

### High adaptability

The interface is compatible with mainstream power UAVs, such as DJI M300RTK, M350RTK, PSDK, and one person can quickly complete the equipment installation and disassembly.

### Quality after-sales service

2-year warranty; 24-hour response; sufficient spare parts; the acoustic imaging professional team provides equipment and testing support.

## ▲ Technical Specifications

| Acoustic parameter | |
|---|---|
| Number of microphones | 128 MEMS channels |
| Frequency range | 2kHz~48kHz |
| Test sound pressure level range | 28dB~132dB |
| Acoustic cloud maps /imager view | 62° |
| Minimum frame rate for acoustic cloud map | 25FPS |
| Test Distance | 0.5m~30m |

| imager | |
|---|---|
| imager FOV | 62° |
| imager focal length | 3.04mm fixed focal length |
| imager pixel | 8 million pixel |

| Storage | |
|---|---|
| Internal storage | 8GB |
| External storage | TF memory card, at least 64G, expandable to 256G |
| Data storage format | .jpg （Picture）, .mp4 （Video） and .wav (Recording) |
| Video length | 5mins |
| Digital export | TF Card |

| Operating Environment | |
|---|---|
| Operating temperature | -20℃- +50℃, 10%-95% No condensation |
| Storage temperature | -20℃ – +60℃ |
| Altitude | Less than 5000m |

| Gimbal | |
|---|---|
| Pitch | -90°~0° （horizontal line 0°） |
| Course | -90°~+90° （0° directly in front of the drone） |
| Resolution | 1° |

| Power | |
|---|---|
| Voltage | Same as 'SKYPORT, DC12V' |
| Power interface | Same as 'SKYPORT' |
| Power consumption | 10W |

| Device | |
|---|---|
| Protection Class | IP42 |
| Overall equipment dimensions | fold：210*230*260mm spread：340*232*167mm |
| Weight | 930g |
| duration of flight | 30min |
| Installation | SKYPORT V2 |
| Warranty | 2 years |
| Self-diagnostic notification | Array-health test function to identify when microphone array needs attention |
| System | Linux |

| Drones (optional) | |
|---|---|
| Model | DJI M300 RTK, DJI M350 RTK |

| Language | |
|---|---|
| Language | Chinese, English |

| Software | |
|---|---|
| Protocol | DJI PSDK Protocol |
| Report types | Gas/Electricity, ISO 50001-compliant |
| Analysis | PRPD Spectrum |