

# AOEXO Acoustic-Optic Guardian II

深圳市飞雄科技有限公司

Shenzhen AOEXO Technology Co., Ltd.

**High-Altitude Audio-Lighting System — Outdoor Communication, Rescue,  
Patrol & Remote Aerial Acoustic-Optic Solution**



## Key Features

**Dual-Axis Omnidirectional Rotation:** Upgraded modular design allows 360° horizontal rotation of the speaker and 360° rotation along the connection axis. Compatible with drones, robotic dogs, tracked vehicles, and more for expanded operational coverage.

**Enhanced Battery Life:** Built-in 12,000mAh battery supports **4 hours** of continuous operation with both spotlight and speaker, or **8 hours** with speaker-only use.

**Remote Smart Control:** New remote control function for adjusting speaker rotation direction and angle, ensuring efficient operation.

**Superior Sound Performance:** Upgraded **110W amplification** delivers clear audio up to **5 km** with **135 dB sound pressure**, covering vast areas.

**Ultra-Bright Spotlight:** **16,000-lumen LED spotlight** provides effective illumination up to **180 meters**, with strobe mode for harsh environments.

**Extreme Durability:** Aluminum alloy speaker housing for impact and corrosion resistance. Spotlight and base made of aerospace-grade aluminum alloy for long-term reliability.

**Optimized Wireless Communication:** Built-in anti-interference wireless intercom module ensures stable signals in complex terrains.

**Futuristic Design:** Sleek cylindrical speaker design enhances professionalism and modern aesthetics.

**Modular Quick-Release System:** Fast installation and disassembly for easy maintenance and multi-scenario adaptability.

**Lightweight & Portable:** Reduced total weight through structural and material optimization.

**Full Environmental Resistance:** IP65-certified dustproof and waterproof design for diverse climates.

**Smart Activation:** One-touch startup for rapid deployment without complex setup.

**Multi-Scenario Applications:** Ideal for disaster rescue, police patrols, scenic area management, outdoor broadcasts, and more.

**Broad Compatibility:** Integrates with drones, FPVs, agricultural UAVs, and smart patrol vehicles.

Technical Specifications

General Parameters

Parameter	Details
Components	Wireless aerial loudspeaker, high-brightness cloverleaf spotlight, base
Base Dimensions	105 × 185 × 45 mm
Base Weight	2.3 kg
Base Battery	12,000mAh
Rotation Angle	360° speaker rotation + 360° base rotation

Parameter	Details
	(dual-axis omnidirectional)
Remote Control	New 800m-range remote for rotation adjustment
Operating Time	4 hrs (speaker + spotlight), 8 hrs (speaker only)
Installation	Upright/inverted mounting

### Spotlight Specifications

Parameter	Details
Design	High-brightness LED, aluminum alloy housing, waterproof, heat-dissipation grooves
Dimensions	75 × 75 × 65 mm
Voltage	DC12V
Operating Temp	-40°C to 80°C

### Wireless Speaker Specifications

Parameter	Details
Material	ABS
Audio Range	5 km

Parameter	Details
Power	100W
Sound Pressure	130 dB
Dimensions	158 × 120 × 180 mm
Effective Range	10–100 m (80–130 dB), >100 m (65–75 dB)

#### Intercom Specifications

Parameter	Details
Frequency Range	400–4800 MHz
Battery	10,000mAh Li-ion
Channels	UV dual-band dual-transmit
Waterproof Rating	IP54
Dimensions	123 × 60 × 40 mm
Voltage	DC7.4V
Communication Range	Urban: 2–5 km; Mountain: 5–15 km; Flat terrain: 5–20 km
Frequency Stability	999 channels

Parameter	Details
Antenna Impedance	50Ω
Charging	USB fast charging
Additional Feature	Top-mounted LED flashlight

## Application Scenarios

**Aerial Patrol:** Mounted on drones for urban/outdoor surveillance.

**Disaster Rescue:** Deployed in disaster zones for command, evacuation, and illumination.

**Scenic Area Management:** Safety announcements and crowd control via drones.

**Public Security:** Street crime prevention and safety broadcasts.

**360° Urban Monitoring:** Drone-mounted system for city-wide warnings and patrols.

**Outdoor Rescue:** Spotlight and remote-controlled speaker for precise rescue coordination.

**Smart Device Patrol:** Integrated with robotic dogs/tracked vehicles for factory/venue security.

**Large-Scale Event Broadcast:** High-altitude loudspeaker for efficient crowd guidance.