

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
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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
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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.