AOEXO Acoustic-Optic Guardian I

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

Key Features

Modular Design: Compatible with drones, robotic dogs, smart autonomous tracked vehicles, and other unmanned devices for versatile deployment.

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

High-Power Audio: Wireless speaker delivers audio up to **5 km** with **100W amplification** and **130 dB sound pressure**.

Ultra-Bright Spotlight: Waterproof, dustproof, and short-circuit-protected LED spotlight designed for extreme temperatures (-40℃ to 80℃).

Durable Construction: ABS speaker housing and aluminum alloy spotlight casing for impact/corrosion resistance.

Long-Range Wireless Communication: Anti-interference intercom with extended range for urban, mountainous, and flat terrains.

Smart Control: Built-in intelligent chip enables one-touch activation and optical reflector functions.

Multi-Scenario Application: Ideal for disaster rescue, public safety announcements, scenic area management, and outdoor events.

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
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

Parameter	Details
Audio Range	5 km
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
Antenna Impedance	50Ω
Charging	USB fast charging
Additional Feature	Top-mounted LED flashlight

Application Scenarios

Urban Aerial Patrol: Mounted on drones for real-time surveillance and public warnings.

Outdoor Rescue Operations: Provides illumination and broadcast instructions during disaster response.

Smart Device Security: Integrated with robotic dogs/tracked vehicles for factory or venue patrols.

High-Altitude Broadcast: Used in public events (festivals, rallies) for crowd guidance.

Disaster Site Coordination: Directs evacuation and rescue efforts via drone-mounted lighting and audio.

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

Law Enforcement: Street crime prevention and safety awareness campaigns.