SkySound

Drone with a Loudspeaker

What is a SkySound?

SkySound is the drone equipped with a camera/jimbal, a lighting, a loudspeaker and an amplifier, so it can broadcast the situation of the site on video. HD Video can be received through LTE communication (or Wi-Fi), and audio ad real-time microphone broadcasting is possible. Ground Control System (GCS) is equipped with QGoundControl, which controls drone flights and provides broadcast-related functions for easy broadcasting. The broadcast drone flies in a wide range of areas and can be used for disaster and fire evacuation, warning broadcasts at sea, highway accident guidance, and bird control.

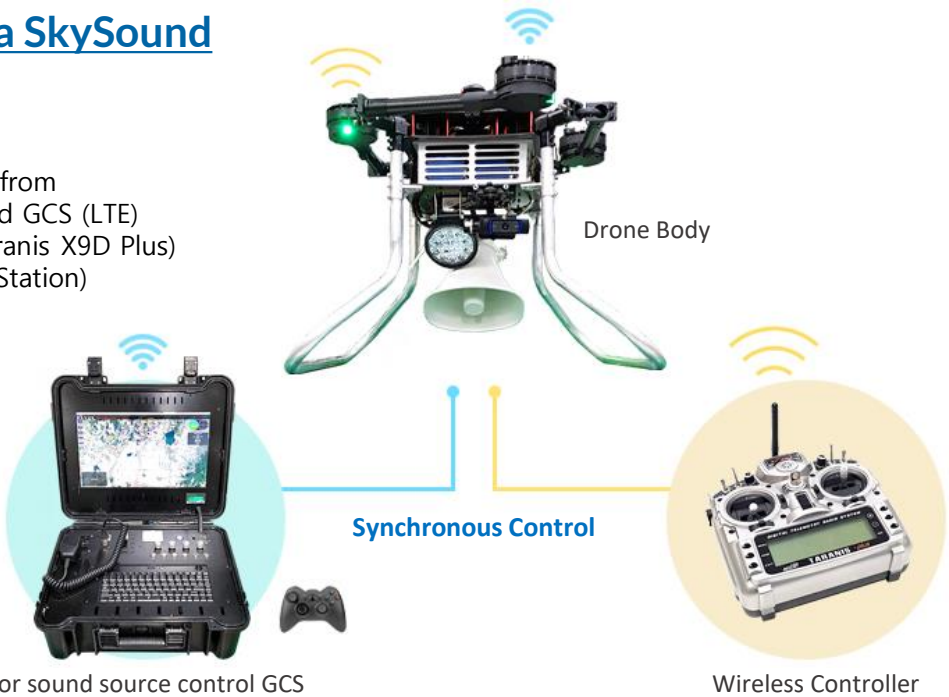
Main Function

- Drone control, Mission control
- On-site video reception / recording
- Sound source playback and microphone broadcasting
- LED light enables night flight.
- When the battery is low, communication is automatically restored.
- Flight Altitude, Flying Radius Limit, and Flight Limit
- Network-based communication with Companion Computer

❖ Components of a SkySound

➢ Product Composition

- Drone Body :
  Simultaneous Control from
  Wireless Controller and GCS (LTE)
- Wireless Controller(Taranis X9D Plus)
- GCS (Ground Control Station)



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❖ Specifications of Mission Equipment

➢ Drone Specifications

Dimensions		1900 × 600 × 1200mm
Weight		17kg
Control System		PixHawk / Companion Computer
Communication		Radio Telemetry / LTE or WIFI
Power Source		Lithium Polymer Battery
Driving Voltage		44.4VDC(36 ~ 50.4VDC)
Thrust System		Quad-Rotor / BLDC Motor
Max. Speed		60 km/h
Max. Climbing/Descending Speed		18/14 km/h
Cruising Speed		20 km/h
Wind Resistance		36 km/h
Hovering Accuracy		Ver. 0.5m / Hor. 1.5m
Flight Duration		30 minute (22,000mAh × 2)
Flight Distance	Radio	Within 2km
	LTE	5km~10km

➢ Mission Equipment Specifications

Gimbal	PAN : ±170˚
	Tilt : -180˚ ~ +90˚
	Roll : ±45˚
Camera	Resolution : 1920 × 1080 Full HD
	Max. 30fps
	Network Streaming(RTSP)
	Resolution varies according to network conditions
LED Searchlight	White LED 70W
	Directivity 30˚
	Front Reinforced Plastic, Rear Aluminum Housing
Loudspeaker	Sound Pressure Level : 115dBA(1m Front)
	Embedded AMP, 20W

❖ GCS(Ground Control Station)

➢ Functions

- GroundControl or MissionPlanner
- Display Flight Map and Flight Information
- FPV Real-time video display
- WayPoint Input / Mission
- Move to Ralley Point
- Embedded GPS / Automatic location transfer
- Maneuvering the drone using a joystick
- Battery Indicator
- Broadcasting Control(Audio File, Mic)

➢ Specifications

- Size : 518×430×242mm
- weight : 16kg
- Battery usage time : 6 hours

- Monitor: 17.3 inches, 1920×1080, 400cd/m2
- Intel Core 6th Gen i5/8GB RAM/256GB SSD
- Four USB Ports, Keyboard & Trackball, Joystick

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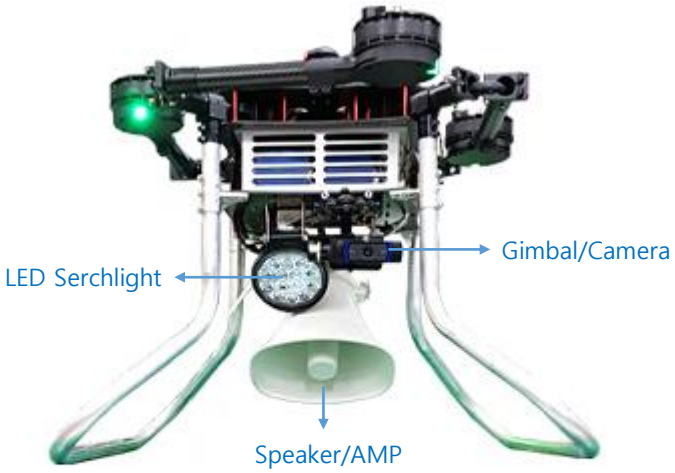
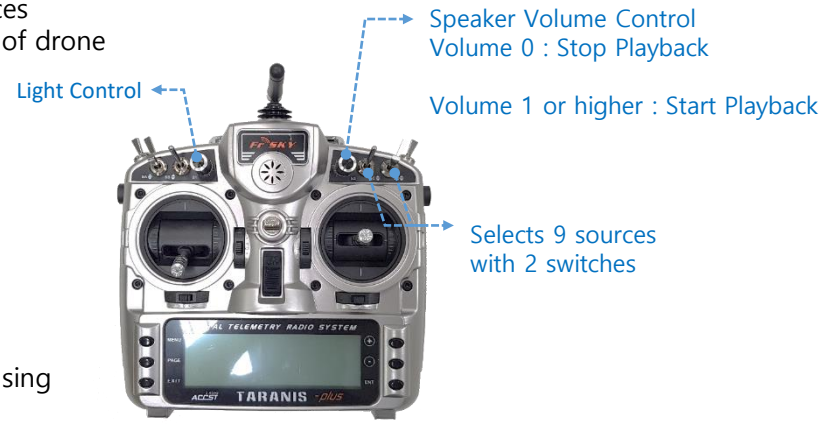


High Performance Speaker + **Camera & Gimbal** + **LED Searchlight**

❖ Control of Lighting & Speaker

➢ Control by Wireless Remote Controlller

- Play and stop internal sound sources
- Select of 9 internal sound sources of drone
- Volume control



➢ Control by GCS

- Real-time microphone broadcast using a toggle microphone
- Connection of external wireless microphone
- Light brightness control
- Drone's internal sound source control : Playback/Stop, Previous song/Next song

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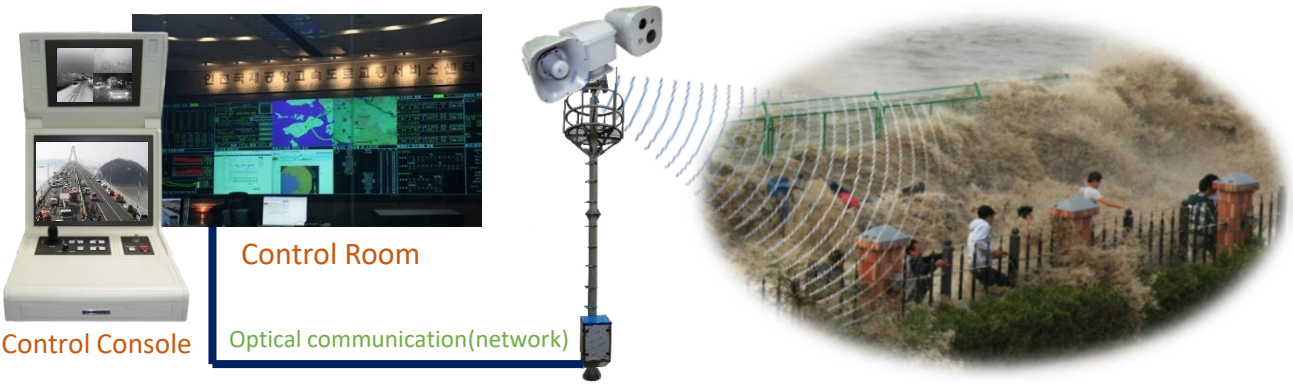
Applications of Acoustic Hailing Devices



Emergency Warning & Fire Rescue

Fire Evacuation Broadcast, Public Place Guide and Evacuation Broadcast, Valley Evacuation Broadcast due to heavy rain, and Coastal Accident Prevention & Evacuation Broadcast

Law Enforcement, Homeland & Border Security

Illegal Activity Warning, Beach Announcement, Access Control Broadcast, Crowd Control

Military, Maritime, Security & Protection

Military Training control, Anti-Piracy, Major Facility Intruder Warning, Preserving Wildlife & Protecting Assets

Traffic Accident Broadcasting, Traffic Control

Traffic Control, Prevention of Secondary Accident, Traffic Accidents and Foggy Broadcast, Emergency Evacuation Broadcast.

Installation in Ships, Vehicles and Drones

Mounting on Warships, Ships, Fire Trucks, Ambulances, Police Cars, Helicopters, Drones

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