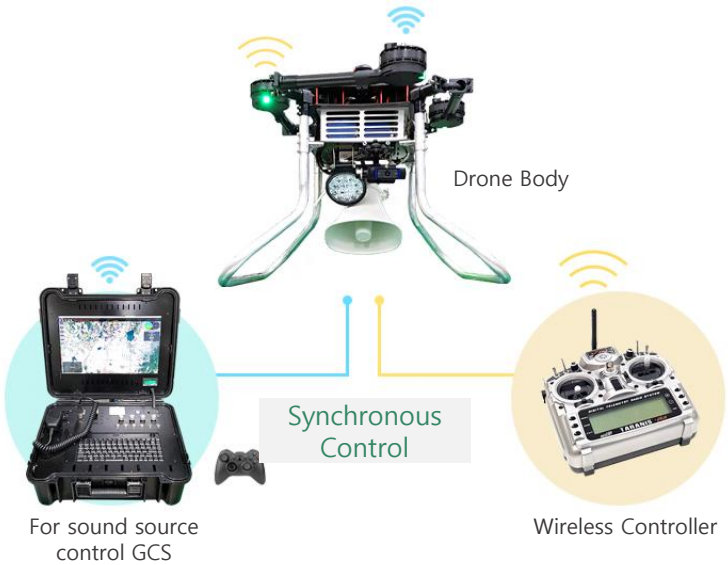
What is a SkySound?

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

SIZE		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

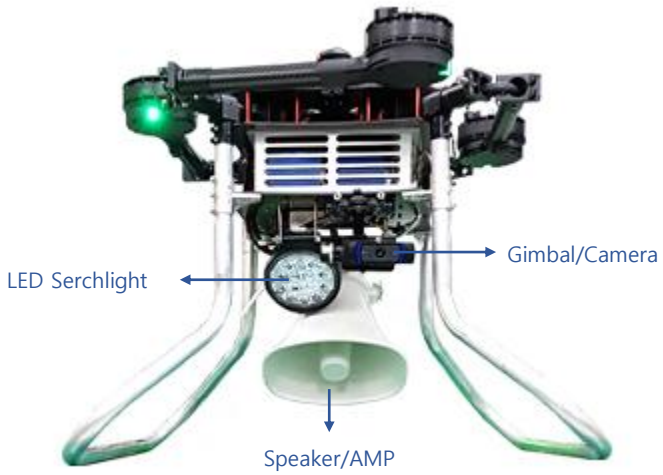
✔ GCS(Ground Control Station)

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



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

Drone with a Loudspeaker SkySound

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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