

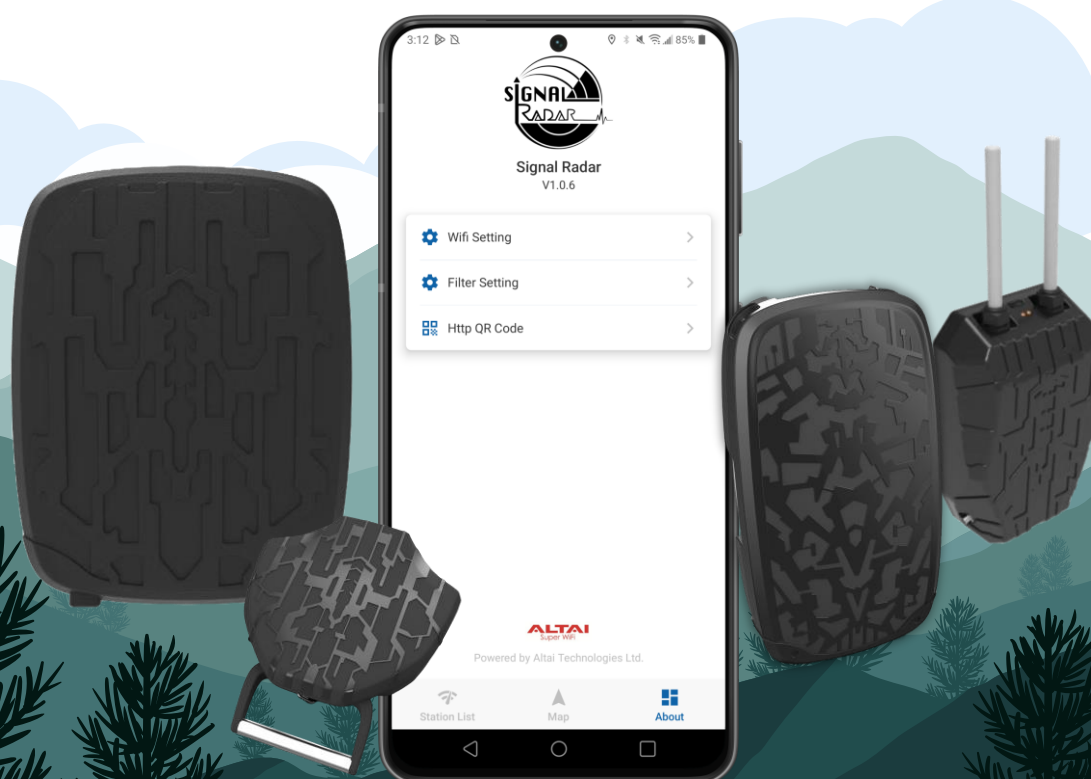
In Search-and-Rescue (SAR) operations, time is of the essence as rescuers face formidable challenges in locating injured individuals amidst dense forest canopies, rocky walls, treacherous terrain, and remote coastlines. Furthermore, the involvement of hundreds of rescue officers from different emergency units often creates communication gaps, coordination issues, and deployment inefficiencies, hampering rescue efforts.

The Altai Signal Radar solution revolutionizes SAR operations with its patented long-range Super WiFi technology, which enables the detection of unique SOS signals generated by an SOS app from a distance of over 500 meters, even in densely covered forest canopies. This greatly enhances the ability of rescue teams to locate and save lives in the most remote and challenging terrains.

The signal radars can be seamlessly deployed on helicopters, drones, and the ground, providing flexibility in SAR operations. Supported by an intuitive controller app, rescue teams can effortlessly and swiftly locate targets, streamlining the entire rescue process. By enhancing coordination, the Altai Signal Radar solution empowers rescue teams to operate more efficiently, ultimately saving precious time and maximizing success rates in SAR missions.

## Features and Benefits

- **Smart antenna technology:** Enhances signal reception capability, significantly increasing the chances of locating targets in challenging environments.
- **Portable design:** Enhances mobility and flexibility during rescue operations, enabling efficient deployment in diverse terrains.
- **Real-time target searching:** Utilizes Wi-Fi fingerprinting technology to locate individuals, facilitating prompt and effective rescue efforts.
- **No additional hardware required:** Capable of detecting Wi-Fi-enabled devices, including wearables and cell phones, without victims needing any extra equipment.
- **One App to manage all:** Provides a centralized platform for coordinating multiple signal radars, streamlining SAR operations, and enhancing overall efficiency.



## Signal Radar - Eagle

The Eagle is a purpose-built device tailored for aerial operations, offering rescue personnel an efficient solution for conducting broad-area searches. With a high-gain directional antenna and Altai Smart Antenna Technology, it detects Wi-Fi signals up to 1.7 kilometers away. Mounted on a helicopter at an altitude of 1000 feet (300 meters), it can cover an area of 512 meters in width. To facilitate the rescue process, the device incorporates four signal strength indicators, promptly providing the rescuer with an estimate of the direction and distance to the target victims.

### Product Highlights:

- Specifically designed for aerial operations, making it ideal for conducting coarse searches with a helicopter.
- Impressive detectable range of up to 1.7 kilometers, ensuring extensive coverage.
- Provides the largest coverage area among the series, maximizing search efficiency.



## Signal Radar - Falcon

The Falcon is a handheld device specifically created to offer flexibility and convenience for aerial operations. Its streamlined design ensures maximum efficiency and ergonomic comfort, allowing rescuers to navigate the skies effortlessly. Equipped with a high-gain directional antenna, the Falcon can detect Wi-Fi signals from distances of up to 1 kilometer. When flown at an altitude of 1000 feet (300 meters), it can cover an area of 352 meters in width. The Falcon also incorporates four signal strength indicators, swiftly providing the rescuer with an estimate of the target victim's direction and distance, aiding in a timely and effective rescue operation.

### Product Highlights:

- Specifically designed for handheld operations, the Falcon is an ideal companion for coarse searches conducted with a helicopter.
- Impressive detectable range of up to 1 kilometer, allowing rescuers to cover vast areas and increase the chance of locating individuals in need of assistance.
- As a lightweight alternative to the Eagle, the Falcon prioritizes maneuverability and user convenience without compromising on functionality.



## Signal Radar - Canvasback

The Canvasback is a revolutionary backpack device engineered for seamless on-ground operations. Equipped with omnidirectional antennas, the Canvasback empowers rescue personnel to effortlessly detect Wi-Fi signals within a range of up to 700 meters. This extensive reach allows for comprehensive comb searches, ensuring that every corner of the search area is thoroughly explored. To further augment precision and efficiency, the rescuer can leverage the Signal Radar Controller app, which provides a user-friendly map interface for seamless real-time monitoring and tracking throughout the operation.

### Product Highlights:

- Purpose-built for on-ground operations, making it the perfect tool for conducting thorough searches in diverse environments.
- Detectable Wi-Fi signals within an impressive range of up to 700 meters.
- Designed to be comfortably mounted on the back, enabling hands-free operation and flexible maneuverability during critical rescue missions.

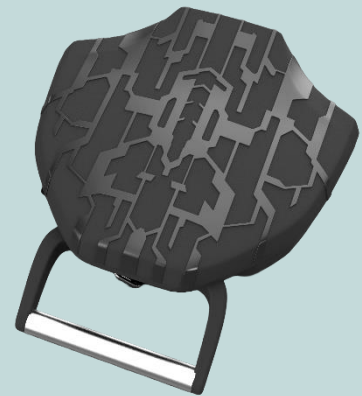


## Signal Radar - Hummer




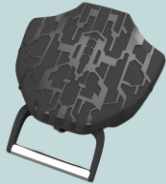
The Hummer is a compact and wearable device, meticulously crafted to provide comfort arm-wearing through its adjustable strap. It offers unparalleled convenience to rescue personnel during their operations. With its directional antenna, the Hummer empowers rescuers to detect Wi-Fi signals within an impressive range of up to 600 meters, making it ideal for a thorough search of the designated area. To enhance precision and efficiency, the Hummer comes with the Signal Radar Controller app that provides real-time monitoring and tracking on a map during the operation, thus enabling rescuers to locate targets with greater accuracy.

### Product Highlights:

- Specifically tailored for on-ground operations, the Hummer excels in executing precise searches across a wide range of environments.
- Featuring a detectable range of up to 600 meters, it ensures that no Wi-Fi signal goes unnoticed within its substantial reach.
- The arm-mounted design, complemented by an adjustable strap, allows for completely hands-free operation, granting rescue personnel maximum flexibility and freedom of movement during their rescue missions.

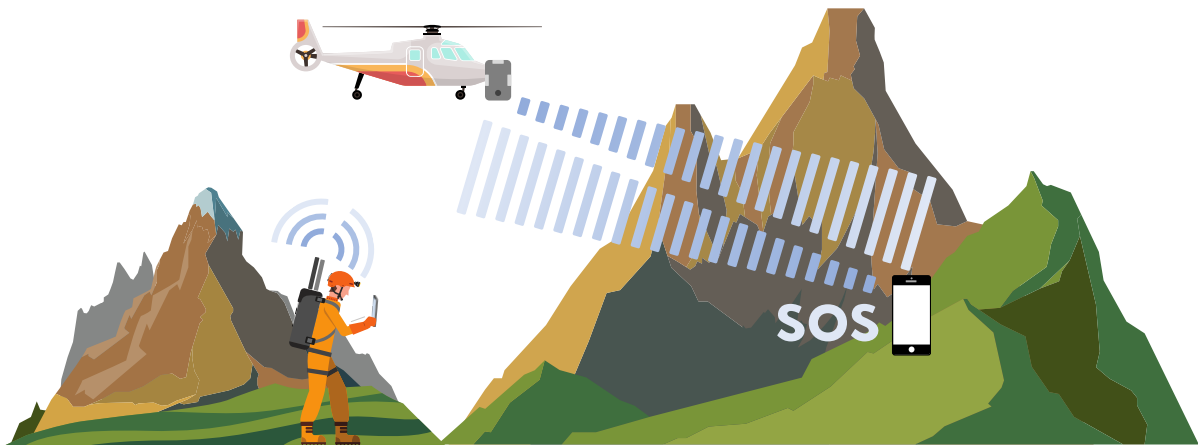


## Signal Radar Models

	Eagle	Falcon	Canvasback	Hummer
				
<b>Operation Type</b>	Sky Unit	Sky Unit	Ground Unit	Ground Unit
<b>Standards</b>	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n
<b>* Frequency</b>	2.400 – 2.484 GHz	2.400 – 2.484 GHz	2.400 – 2.484 GHz	2.400 – 2.484 GHz
<b>* Transmit Power</b>	27 dBm (Max.)	30 dBm (Max.)	28 dBm (Max.)	27 dBm (Max.)
<b>Receiver Sensitivity</b>	-95 dBm	-100 dBm	-99 dBm	-92 dBm
<b>Antenna</b>	19 dBi Sector, Horizontal BW: 80°, Vertical BW: 14°	12 dBi Sector, Horizontal BW: 60°, Vertical BW: 25°	8 dBi Omni, Horizontal BW: 360°, Vertical BW: 15°	6 dBi Patch, Horizontal BW: 65°, Vertical BW: 60°
<b>† Detectable LOS Range</b>	1700 m	1000 m	700 m	600 m
<b>† Coverage @ 1000ft altitude</b>	512 m x 6 m	352 m x 8 m	N/A	N/A
<b>Carry Method</b>	Handheld	Handheld	Back-mount	Arm Strap
<b>LED Indicators</b>	1 x Power Status, 1 x Charging Status, 4 x Signal Strength	1 x Power Status, 1 x Charging Status, 4 x Signal Strength	1 x Power Status, 1 x Charging Status	1 x Power Status, 1 x Charging Status
<b>Battery</b>	Built-in rechargeable lithium-ion battery, Up to 4 hours	Built-in rechargeable lithium-ion battery, Up to 4 hours	Built-in rechargeable lithium-ion battery, Up to 6 hours	Built-in rechargeable lithium-ion battery, Up to 6 hours
<b>Dimensions (W x D x H)</b>	526 x 205 x 698 mm	309 x 127 x 584 mm	300 x 130 x 460 mm (Excl. Antenna) 300 x 130 x 900 mm (Incl. Antenna)	251 x 75 x 265 mm (Excl. Handle Bar), 251 x 116 x 299 mm (Incl. Handle Bar)
<b>Weight</b>	12.8 kg	6.7 kg	4.1 kg (Incl. Antenna) 4.7 kg (Excl. Antenna)	1.2 kg
<b>Weatherproof</b>	IP67	IP67	N/A	IP67
<b>Accessories</b>	24V Power Adapter	24V Power Adapter	24V Power Adapter	24V Power Adapter

\*The transmit power and operating frequency may vary according to country regulations.

†The actual distance and performance vary depending on site conditions, device configurations and client capabilities.



## Signal Radar Controller App

The Signal Radar Controller is a user-friendly application that serves as a comprehensive management platform, essential for optimizing the efficiency of SAR operations. This powerful app encompasses a wide array of features, designed to streamline and enhance the entire rescue process.

### Radio Access Management

- 8 x SSID (1 for Rescue Team, and 7 for Victims)
- Open/WPA2-Personal Authentication

### Scanning and Searching Operations

- Active/Passive Scan
- Multiple AP Mode
- Unwanted Signal Filtering
- Target searching by SSID/Device MAC/Hotspot/Connection Status
- Online/Offline Map
- Detection Notification Alerts
- Scan History Record

### Operation System

- Android OS



## Product Ordering Information

### Signal Radar – Eagle (Part No.: SD.RP-EG-08-000)

- Large coverage battery operated directional Wi-Fi signal radar
- With 24V power adapter

### Signal Radar – Falcon (Part No.: SD.RP-FC-03-000)

- Long range battery operated directional Wi-Fi signal radar
- With 24V power adapter

### Signal Radar – Canvasback (Part No.: SD.RP-CB-02-000)

- Omnidirectional battery operated Wi-Fi signal radar
- With 24V power adapter

### Signal Radar – Hummer (Part No.: SD.RP-HM-2S-000)

- Medium range battery operated directional Wi-Fi signal radar
- With 24V power adapter

### Accessories

- Backpack for Signal Radar – Canvasback (Part No.: SP.MS-BP0001-MR)
- 24V power adapter (Part No.: SP.PE-0003-MW)

### Contact Us

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The information contained herein is subject to change without prior notice.

