ROBOTEYE

SOLO

Smart Trail Camera

Solo operates solely in critical areas without GSM coverage, waking up upon presence detection to record electro-optic and thermal videos. It performs on-device analysis using edge AI and sends detection photos of humans, vehicles, etc., to relevant units via satellite, making it ideal for surveillance in areas like critical trespassing trails where conventional networks are unavailable.

The integration of edge AI is vital, as it minimizes satellite communication bandwidth and costs by filtering data on the device, ensuring only relevant detection events are transmitted. This efficiency reduces the volume of data sent, decreases latency, and lowers communication costs by avoiding false positives.

Solo's design includes camouflage capabilities, allowing it to blend into its surroundings and avoid detection. It is durable, with an operational temperature range of -20 to +50 degrees Celsius and an IP68 rating, ensuring it withstands extreme weather conditions.

With its motion detection feature, Solo automatically records and analyzes footage, enabling real-time response to potential threats. This makes Solo a dependable and efficient surveillance system for secure, autonomous operation in remote and sensitive locations.

TECHNICAL SPECIFICATIONS

PARAMETERS	SPECIFICATIONS	PARAMETERS	SPECIFICATIONS
Mass[1]	1.2 kg	Wake-up Method	3 x Motion Sensor
Dimension	104x128x108 mm	Wake-up Range	30 m
Power Source	12V Battery (External)	Image Sensor	Electro-Optical and Thermal Camera
Operation Time[2]	180 days	Illumination	Infrared (IR) LED (Invisible)
Operating Temperature	-20 to +50 ℃	Image Analysis	Detection on the Edge Device with AI (Person, Animal, Vehicle, Other)
Ingress Protection Class	IP68	Data Encryption	AES-256
Data Transmission	Satellite (Iridium)	User Interfaces[4]	Web and Mobile Applications
Coverage[3]	World-wide		

CARRYING CASE			
Mass	1.72 kg (empty)	Dimensions	345x302x150 mm
Ingress Protection Class	IP67	Other	MIL-STD-810G

[1] May vary depending on configuration. [2] Operation time depends on battery capacity and number. [3] Coverage area varies according to the preferred satellite network. [4] Mobile devices with Android operating system are supported.

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ADDITIONAL REQUIREMENTS
POWER SOURCE
12V external power supply (battery) is required and not included in the box. 12V 24 Ah battery is suggested for up to 2 months of use. Additional connection cables provided for multiple batteries.

SMARTPHONE FOR FIELD INSTALLATION
An Android smartphone with Wi-Fi and Bluetooth for field installation is required. Solo Setup Application must be downloaded and installed prior to installation.

SATELLITE DATA PLAN
Iridium Short Burst Data (SBD) Plan is required. Available from vendors (Ground Control) or directly from us at an additional fee.

Data usage is approximately 1 KB per detection. We recommend you start with "Iridium SBD High Usage Data Package" which is priced at $147 USD per month.

MANAGEMENT SOFTWARE
For effective data gathering and analysis, each Solo unit must be connected to the Central (Management Panel) or integrated with the customer's services via API. Users must select one of the following options:

CENTRAL (MANAGEMENT PANEL)
Cloud Use: With annual payment, Central can support an unlimited number of devices within the Cloud Panel.

On-Prem License: Offers unlimited device management at an annual fee per device.

API INTEGRATION
We provide a complimentary service that relays data to the specified software/service endpoints or email addresses of the customer.

BOX CONTENT
Each Solo set comes in a carrying case containing:

- Solo Device (1 Unit)
- Antenna (1 Unit)
- Connection Strap (2 Units)
- Power and Data Cable (1 Unit)
- Battery Cable (1 Unit)
- Solo Ethernet Module (1 Unit)
- User Manual (1 Unit)

WARRANTY COVERAGE
The product comes with a limited 2-year warranty.