ROBOTEYE

NODE

Smart Sensor for Wide Area Surveillance

Node is a compact LoRa-based surveillance camera designed for use with Hub or Mini Hub, enabling large area coverage within a 1 km radius. Its portability aids remote or stealth operations, ensuring reliable monitoring. Equipped with an EO camera, it delivers images. Nodes autonomously capture and analyze images at the edge upon motion detection, transferring them to Hub or Mini Hub via LoRa technology without reliance on Satellite or GSM Network.

TECHNICAL SPECIFICATIONS

PARAMETERS	SPECIFICATIONS	PARAMETERS	SPECIFICATIONS
Weight[1]	550 g	Data Transmission	LoRa
Dimension	91x79x70 mm	Wake-up Method	3 x Motion Sensor
Power Source	3 x Li-ion 18650 Rechargeable Batteries (Internal)	Image Analysis	Detection on the Edge Device with AI (Person, Animal, Vehicle etc.)
Operation Time[2]	180 days	Image Sensor	Electro-Optical Camera
Operating Temperature	-20 to +50 ºC	Illumination	Infrared (IR) LED (Invisible)
Ingress Protection Class	IP67	Wake-up Range	20 m
Coverage[3]	Up to 1 km	Data Encryption	AES - 256

[1]May vary depending on configuration. [2] Operation time depends on battery capacity and number. [3]Coverage area varies according to the Line of Sight.

Use Cases

- Border Security

- Immigration Control

- Wildlife Monitoring

Edge AI

Intelligent data processing with advanced Edge AI technology enhances surveillance capabilities and detects human presence.

Motion Activated

Automatically activates upon motion detection, ensuring efficient surveillance operation.

Compatible With Hub and Mini Hub

Seamless integration with Hub or Mini Hub systems for versatile surveillance applications.

ADDITIONAL REQUIREMENTS

DATA TRANSFER   Node can be used with Hub or Mini Hub