

HUB

Smart Wide Area Surveillance Gateway

The HUB is designed for extensive areas and operates independently of GSM connectivity. If a detection occurs, NODEs and SENSEs evaluate the signal and if necessary they send data to the HUB via LoRa. The HUB processes the incoming data using Edge AI and transmits it to CENTRAL via Satellite or GSM Network. This setup enables real-time threat response, making the HUB perfect for secure, autonomous surveillance. By filtering data on-device, only critical detection events are transmitted to CENTRAL, reducing data volume, latency, and communication costs.



TECHNICAL SPECIFICATIONS

PARAMETERS	SPECIFICATIONS	PARAMETERS	SPECIFICATIONS
Weight ¹	3.5 kg	Image Analysis	Edge AI (Person, Animal, Vehicle etc.)
Dimension	205x450x120 mm	Data Encryption	AES - 256
Power Source	12V Battery (External)	Device Support (via LoRa)	Unlimited NODEs and SENSEs
Operation Time ²	Continuous with Solar Panel	Data Transmission	Satellite (Iridium) or GSM Network
Wake-up Method	Triggered by NODEs and SENSEs via LoRa	Coverage ³	NODE to HUB via LoRa(up to 3 km) SENSE to HUB via LoRa(up to 7 km)
Operating Temperature	-30 to +60 °C	Ingress Protection Class	IP67

¹ May vary depending on configuration. ² Operation time depends on detection and transmission count. ³ Coverage area varies according to the Line of Sight.