

LSH01

LoRaWAN® Smart Safety Helmet

Enhance worker safety with personnel location and multi-risk monitoring for faster emergency response.

LSH01 combines head protection with indoor and outdoor positioning, multi-risk monitoring, voice alerts, and platform reporting to improve personnel visibility and support faster emergency response. Optional solar-assisted charging supports extended outdoor operation.

LoRaWAN®

Bluetooth®

GPS

KEY FEATURES ►

Indoor & Outdoor Positioning

GPS outdoors and Bluetooth beacons indoors enable personnel positioning.

Multi-Risk Monitoring

Detects falls, inactivity, helmet removal, high temperature, and proximity-voltage risks.

Voice & Remote Alerts

Provides voice warnings and reports alarm events to the management platform.

Dedicated SOS Button

Enables workers to request assistance during emergencies.

HOW IT WORKS ►



IDEAL FOR INDOOR IOT DEPLOYMENTS ►



Construction Sites



Electric Power & Utilities



Mining Operations



Industrial Facilities

SPECIFICATIONS ►

Basic Specs.

Material	ABS
Dimensions	295 × 236 × 155 mm
Weight	609 g
IP Rating	IP65
Operating Temperature	-10°C to 60°C
Operating Humidity	10%–90% RH, Non-Condensing
Color	White / Red / Blue / Yellow / Orange

LoRaWAN®

Wireless Protocol	LoRaWAN®
Operating Frequency	US915 / EU868 / AS923 / AU915 / KR920, etc.
Transmission Power	Max. 19 dBm
Network Access	OTAA / ABP
Device Class	Class A

Positioning & Alerts

Outdoor Positioning	GPS
Indoor Positioning	Bluetooth
GPS Reporting Interval	10 Minutes
Bluetooth Scanning Interval	15 Seconds
Alert Method	Local Voice Alerts + Platform Reporting

Power

Battery	1500 mAh × 2, Rechargeable
Battery Life	Approx. 14 Days*
Charging Method	Type-C / Solar-Assisted Charging

