EMERGENCY COMMUNICATION UNITS

INTELLIGENT SCBA

Description

The Intelligent Self–Contained Breathing Apparatus System is an upgraded SCBA platform designed for firefighting and rescue operations. It integrates thermal imaging display, SCBA pressure monitoring, ambient temperature display, SOS alarm, Bluetooth expansion, motion alarms, real–time communication, and 4G/5G transmission.

The system allows full situational awareness by sending live data and video to the command center.

Features

- Positive Pressure SCBA
- Full-Face Panoramic Mask
- Intelligent Pressure Gauge
- MESH / 4G / 5G Transmission
- Temperature Monitoring
- Bluetooth Communication
- Positioning Module (GPS)
- Smart Alarm System
- SOS Emergency Calling
- Audio Output + Microphone

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INTELLIGENT SCBA

SYSTEM MODULES (Overview)

Mask Unit
Panoramic anti-fog mask with mic, speaker & breathing sensor.

Alarm Module
LED indicators, buzzer alarm, SOS/high-temperature alerts.

Central Control Unit
Dual pressure sensing, motion alarm, battery and status alerts.

Air Decompressor Unit
High-pressure reduction module with integrated pressure sensor

Specification

Category	Specification
System Type	Intelligent Positive Pressure SCBA
Pressure Monitoring	Real-time pressure + remaining air time
Display	Mechanical dial + electronic LCD
Alarms	Low pressure / high temp / motion / low battery / SOS
Temperature Monitoring	Integrated
Communication	Bluetooth / MESH / 4G / 5G (model dependent)
Audio System	Built-in microphone & loudspeaker
Positioning	Supported via control unit
HUD Support	Compatible (wired)
Operating Temperature	–30℃~ 70℃
Ingress Protection	IP67 (electronic modules)
Explosion Protection	Ex ia IIC T4 Ga
Battery	Replaceable module (AAA / per model)
Gauge Standby Time	>1 year
Gauge Working Time	>200 h (without HUD)
Alarm Duration	>3 h
Alarm Volume	>90 dB @1 m
Harness	Flame-resistant padded straps
Backframe	High-strength, impact-resistant

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