



Ninnotech

Wear-Free
Plug-Free
Privacy-Safe

DATA SHEET

AS-FD90 Ground-based Fall Detector



Description

The AS-FD90 Ground-based Fall Detector is designed for high-risk areas like bathrooms. Using infrared and invisible laser sensing, it provides accurate, contact-free fall detection.

When a fall is suspected, alerts are sent via Wi-Fi to the cloud for real-time notification and rapid response. With IP65 protection and AA battery power, it requires no wiring and installs easily in bathroom corners or other monitoring areas.

Specifications

Technology	Infrared + laser distance-measurement beam
Sensing Range	Covers approximately 3–10 m ² indoor space
Sensing Time	Within approximately 1–2 minutes
Com. Interface	Wi-Fi (transmission distance up to 10 meters)
Protocols	MQTT, HTTP(HTTPS), RESTful API (event driven)
Power	8 × AA batteries (least 3 months, low bat. alarm)
Installation	Durable, waterproof Velcro for floor attachment
Dimensions	Diameter 105 mm × Height 180 mm
Temperature	-10 ~ 50°C
Humidity	0–85% RH (non-condensing)
Certifications	CE、FCC、RoHS、BSMI

Features

- Wear-Free: Comfortable & non-intrusive
- Contact-Free Sensing: Infrared + laser
- Privacy-Safe: No camera used
- Smart Detection: Low false alarms
- Battery Operated: Up to 3 months
- Splash-Resistant: Bathroom safe
- Easy Integration: Supports multiple protocols

UI/Function

- One-Touch switch for easy use
- SOS Alert: Emergency call button
- Visual & Audio Feedback: LED + buzzer
- Dual Modes: Operation & setup modes
- Space Calibration: Automatic adjust distance

Applicable Spaces

- Senior communities / Elderly living alone
- Rehabilitation centers / Nursing homes
- Accessible spaces / Hotels & resorts

Interested in learning more? Contact us anytime!
Email: service@ninnotech.com.tw / Web: www.ninnotech.com.tw

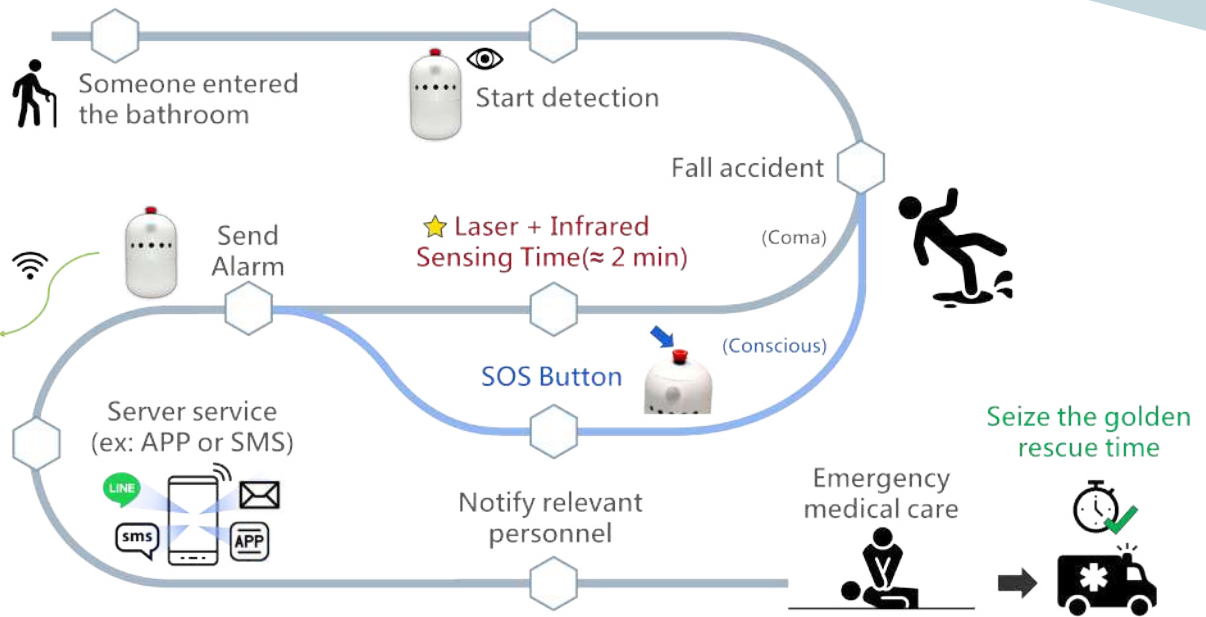
FB



LINE



User Scenarios



Feature

1. Infrared + Laser Sensing
2. Real-Time Wireless Alerts
3. Splash-Resistant Velcro Base

Advantage

1. Effective in Bright and Dim
2. Supports Multi-Com. Protocol
3. Easy Installation, No Wiring

Benefit

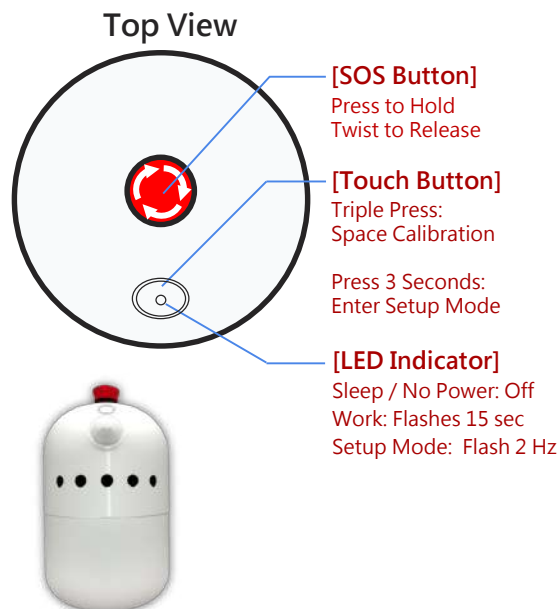
1. Wear-Free & Privacy-Safe
2. Less Delay, More Lives Saved
3. Easy to Deploy in Any Space

Product Operation



LINE Bot
QR Code

3 Easy Steps, Ready in 3 Minutes!
Complete Installation & Setup in Minutes!



Function-1 (Setup Mode)	Function-2 (Space Calibration)
<p>Open QR Code on Phone Add LINE Bot at LINE account Enter LINE ID to LINE Bot</p>	<p>Ensure Detection Area Clear Press Button 3 Times</p>
<p>Press Button 3 Seconds Release after buzzer feedback</p>	<p>Leave Detection Area for 15-30 sec</p>
<p>Connect Phone to Device Wi-Fi Set Wi-Fi, LINE ID and Email Complete Setup (Buzzer & confirmation message)</p>	<p>Calibration Complete (Buzzer & confirmation message)</p>
<ul style="list-style-type: none"> • Standard type (LINE), Pro type (API) • Set Location Name: Included in alerts 	<ul style="list-style-type: none"> • Recalibration needed When Site Change • Keep Space Free of Temporary Objects

For any product issues, contact our official LINE or FB support anytime – we' re ready to assist!