FRONTLINE VISION

TECHNOLOGY FOR A SAFER TOMORROW



MONITOR
DETECT
ALERT
PROTECT

FV-GUARD 360

STRUCTURAL MOVEMENT ALARM

DETECT MOVEMENT.
ALERT THE TEAM.
PROTECT THE RESCUE ZONE.

360°
3-AXIS MOVEMENT MONITORING

0.1° - 3°
ADJUSTABLE TILT THRESHOLD

0.5 - 100 Hz
VIBRATION MONITORING RANGE



STABLE STRUCTURES SAVE LIVES.
KNOW THE RISK BEFORE IT MOVES.



STRUCTURAL SAFETY – AT THE POINT OF RISK

FV-Guard 360 provides continuous on-structure monitoring for unstable buildings and critical structural elements during rescue operations.
Once movement or vibration exceeds the configured threshold, the unit immediately provides audible and visual warning to personnel operating within the hazard zone.

REAL-TIME
Movement Monitoring

INSTANT
Audible & Visual Alarm

RUGGED
Built for Harsh Environments

RAPID
Deployment and Setup

APPLICATION SCENARIOS

DIFFERENT INCIDENTS. A SAFER OUTCOME.



EARTHQUAKE RESPONSE
Aftershock and structural movement monitoring



BUILDING COLLAPSE
Monitor unstable walls, beams and structural elements



FIRE & EXPLOSION
Monitor structures weakened by heat or blast damage



VEHICLE / TECHNICAL RESCUE
Movement monitoring during stabilization operations

FRONTLINE VISION
PROTECT PEOPLE. ENABLE BRAVER RESPONSE.

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FV-GUARD 360

STRUCTURAL MOVEMENT ALARM

MONITOR
DETECT
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TECHNICAL SPECIFICATIONS

ACCURATE MONITORING. RELIABLE WARNING. FIELD READY.

MEASUREMENT PERFORMANCE

Displacement Measurement Accuracy	±0.1 mm
Angle (Tilt) Setting Range	0.1° – 3°
Vibration Frequency Setting Range	0.5 – 100 Hz
Angle Measurement Range	360° (X, Y, Z, three axes)
Monitoring Axes	3-axis (X, Y, Z)

ALARM & NOTIFICATION

Audible Alarm	≥ 70 dB (adjustable)
Visual Alarm	≥ 8 red LED flashlights
Alarm Threshold	User configurable
Alarm Modes	Tilt / Vibration / Combined

POWER SUPPLY

Power Supply Method	Removable lithium-ion battery
Battery Life	≥ 3 days (standard use)
Charging Interface	USB-C (Type-C)
Charging Time	≤ 4 hours

PHYSICAL CHARACTERISTICS

Main Unit Dimensions	140 × 140 × 140 mm (±0.5 mm)
Main Unit Weight	2050 g (±50 g)
Carry Case Dimensions	592 × 451 × 290 mm
Total Package Weight	12.9 kg

ENVIRONMENTAL

Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +70°C
Protection Level	IP65
Shock & Vibration	Designed for harsh field environments

STANDARD PACKAGE INCLUDES

Complete kit for rapid deployment	FV-GUARD 360 Monitor, Magnetic Base, Battery Pack, Metal Clamp, Battery Charger, Rescue Support Bracket, Multi-Function Mounting Plate, Suction Cup Mount, Rugged Carry Case, User Manual

* Specifications are subject to change without notice.

SYSTEM COMPONENTS

EVERYTHING YOU NEED. READY TO DEPLOY.



1 FV-GUARD 360 Monitor
Main unit with 3-axis tilt and vibration monitoring, audible and visual alarm.

2 Magnetic Base
For quick and stable installation on metal surfaces.

3 Battery Pack
Removable lithium-ion battery.

4 Metal Clamp
Universal clamp for flexible mounting.

5 Battery Charger
USB-C charger for battery pack.

6 Rescue Support Bracket
Support bracket for various deployment scenarios.

7 Multi-Function Mounting Plate
Adapter plate for multiple installation methods.

8 Suction Cup Mount
For smooth surfaces such as glass.

HOW IT WORKS

SIMPLE SETUP. REAL-TIME PROTECTION.

1 **DEPLOY**
Install the unit at the target structure.

2 **CONFIGURE**
Set alarm thresholds (tilt, vibration or combined).

3 **MONITOR**
Real-time measurement and analysis.

4 **ALERT**
Audible and visual alarms when thresholds are exceeded.



STABILITY
CREATES SAFETY
SAFETY SAVES LIVES

PEOPLE FIRST
PROVEN TECHNOLOGY
GLOBAL SUPPORT
A SAFER TOMORROW

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