



## Monitoring the Safety of Smartphone Users

### Turns a smartphone into a safety monitoring platform

Employees often work alone or interact with members of the public and require a simple, non-intrusive solution to monitor their safety. The Loner® MOBILE smartphone app was designed specifically to meet work-alone needs. It fits into an employee's routine, replacing productivity-draining check-in and journey management procedures.

**More than just an app** – Unlike some competitor apps that call a buddy list, Loner MOBILE alerts monitoring personnel who can make a difference with an empowered, pin-point emergency response to the employee's location. A configurable check-in timer confirms the employee's ongoing well-being. If the user fails to check-in, Loner MOBILE alerts monitoring personnel within your organization or a third-party Monitoring Center.

Prior to entering a site, building or client's home, users can send location-based notes to the monitoring infrastructure that can provide valuable context surrounding their location, activities, and risk level. All safety alerts may be configured for two-way voice calling to a programmable number to dedicated monitoring personnel.

Loner MOBILE works with the Loner web portal application for remote management of all Loner safety solutions. The Loner web portal makes it easy to manage numerous teams with unique customizations through device profiles, over-the-air Loner configuration, and a comprehensive safety alert management tool-set.

**Wearable solution enhances Loner MOBILE** – Loner MOBILE becomes a complete safety monitoring platform when coupled with the Loner DUO wearable technology. Featuring Bluetooth Smart wireless communications, Loner DUO maintains a communication link to Loner MOBILE, automating the process of monitoring employee safety. Further, it provides a physical link to monitoring personnel, enabling the employee to instantly request help with the pull of an emergency latch – even if the smartphone is not within arm's reach.



#### BS 8484 Compliant Voice Calling

Alerts generate an automatic two-way phone call to monitoring personnel



#### SureSafe Monitoring Light

Confidently know when safety is monitored



#### Check-in Monitoring & Alerting

Missed worker check-in generates safety alert (optional)



#### Notes

Users can provide on-the-go context to their activities



#### Emergency Alerting

Help can be requested through an emergency control



#### GPS Publishing

Location publishing ensures employee location is available for emergency response



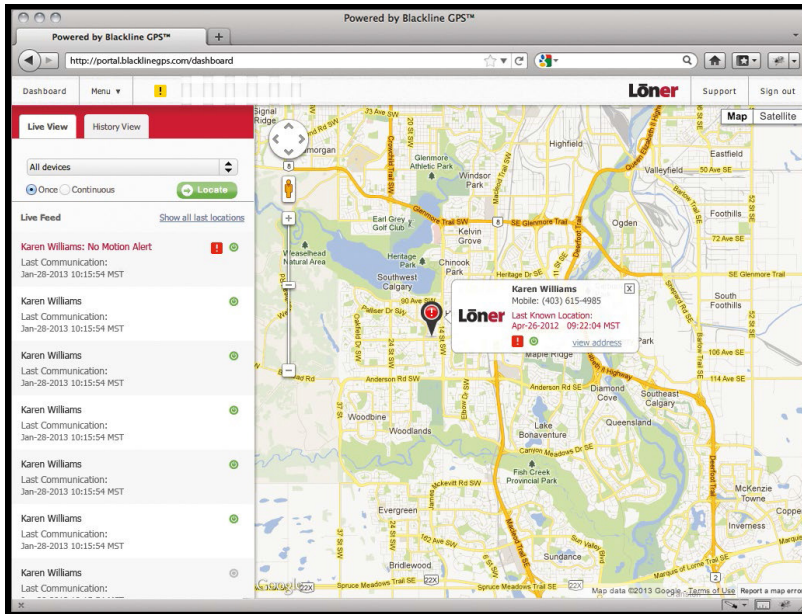
#### Loner Web Portal Compatible

Manage all devices via cloud-hosted monitoring account



#### Wearable Technology Enhancement

Expand safety monitoring rigor with Loner DUO



Loner Web Portal

## Benefits

- ✓ Improves safety awareness of mobile workers
- ✓ Quickly mobilize an emergency response by mapping worker locations in Loner Web Portal
- ✓ Real-time safety alerting increases awareness of safety incidents
- ✓ Achieves regulatory compliance as required in some regions
- ✓ Reduces mobile worker anxiety about safety
- ✓ Customizable location publishing provides a history of worker locations
- ✓ Easy training for workers and monitoring personnel
- ✓ Compatible with iPhone, Android and Blackberry devices
- ✓ Affordable for small business or enterprise deployment

## Advantages

- ✓ Monitoring availability even when the Loner Web Portal is not used
- ✓ Call-out list provides multiple layers of alert to ensure an incident is addressed
- ✓ Loner Web Services enable software developers to integrate safety monitoring within a call center
- ✓ Easy-to-use web-based Loner Web Portal for efficient mapping and setup
- ✓ Customizable Loner Web Portal account implementation for diverse customer needs
- ✓ Over-the-air application download and installation
- ✓ Web-hosted Loner Web Portal user account. No software to install

## Specifications

### Smartphone Compatibility

**Blackberry:** OS 10+  
**Android:** 4+  
**iPhone:** iOS 8.0.1+

### Safety Features

**Emergency button:** Press & hold hot-key (1 sec) to trigger alert (Blackberry only)  
**Worker check-in (optional):** Required check-in period (5 – 180 min)  
**Emergency alert slider control**

### Worker Check-in Timer Reset Configurable

Delays next check-in request  
**Blackberry:** Phone activity resets check-in timer  
**iPhone:** Phone activity, motion, GPS speed, proactive check-in

### User Notification Methods

**Indicators:** User-specified ring tones with or without vibration (Blackberry only), alarm-based user notification (iPhone)

### Assisted GPS

**Accuracy:** ~ 5m (16 ft) outdoors, ~ 50m (165 ft) indoors

### Mobile Messaging Methods

Email, text message (SMS)

### Alert Messages

Emergency key-press, Missed Check-in  
 Low smartphone battery  
 On-network (power-on & return-to-coverage)  
 Off-network (power-off & out-of-coverage time-out)

### GPS Location Publisher

Periodic automatic location reporting: 1 – 60 minutes

### Device Requirements

Blackline GPS Activated service plan  
 GSM/GPRS wireless communication coverage  
 GPS signal coverage required for GPS locating

### Wireless Coverage & Activated Service Plans

**Wireless coverage:** Depends on wireless carrier

### Loner Portal Web Application

**Features Include:** Alarm banner, event history, device location mapping, configurable, device management, alert & notification settings, and more



# Loner DUO



## Monitor Employee Safety with Wearables

### Enhances the Loner MOBILE safety monitoring application

Employees face every-day risks in the workplace and an employer's emergency response capability is put to the test when an incident occurs. To call for help, smartphone safety monitoring applications all share the same Achilles' Heel – they require the phone to be within arm's reach, they need to be unlocked, the safety app needs to be brought to the foreground, and a control requires user input. In the real world, this isn't a practical life safety solution for all applications.

The Loner DUO is a ground breaking wearable enhancement that addresses this safety monitoring app shortfall. It pairs with a smartphone using low-power Bluetooth Smart technology and empowers the Loner MOBILE app with rigorous safety monitoring features equivalent to dedicated devices from Blackridge Solutions.

Loner DUO incorporates an intuitive emergency latch that makes it easy for the worker to instantly call for help while keeping false alerts to an absolute minimum. Featuring internal accelerometers and gyroscopes, Loner DUO detects falls and man-down (motionless) incidents with real-time alerting to monitoring personnel.

Loner DUO continuously monitors the user's safety in conjunction with the Loner MOBILE application. All Loner DUO safety alerts are communicated through the smartphone's data connection through the Loner MOBILE application. All safety alerts include the employee's precise location, computed by the smartphone's internal location services.

Protect the safety of your workers with Loner safety monitoring solutions.

[BlackridgeSolutions.com](http://BlackridgeSolutions.com) | (778) 686-5799 | [info@blackridgesolutions.com](mailto:info@blackridgesolutions.com)



#### Emergency Latch & Alerting

Instant request for help by releasing the latch



#### True Fall Detection & Alerting

Differentiates falls from other activity



#### Motion Monitoring & Alerting

Lack of worker motion generates a safety alert



#### SureSafe™ Monitoring Light

Confidentially know when safety is monitored



#### Rechargeable Battery

Over one work-day of battery life before charging



#### Bluetooth® Smart

Low-power wireless communications with smartphones



#### Safety Smartphone App

Enhances the Loner MOBILE app







Loner Duo complements the Loner Mobile safety monitoring application

## Highlights

- ✓ Provides users with an immediate method to request help by pulling the physical emergency latch
- ✓ Ideal enhancement to Loner MOBILE for medium to high risk user applications
- ✓ Lightweight and easy to wear
- ✓ Supports leading smartphones featuring Apple iOS, Google Android, and Blackberry 10 OS operating systems
- ✓ Maximize the safety feature-set of smartphones using Loner MOBILE
- ✓ Improves safety awareness of mobile workers
- ✓ Quickly mobilize an emergency response by mapping worker locations in Loner Web Portal
- ✓ Real-time safety alerting increase awareness of safety incidents
- ✓ Achieves regulatory compliance as required in some regions
- ✓ Reduces mobile worker anxiety about safety
- ✓ An automated system that does not require manual worker check-in
- ✓ Easy training for workers and monitoring personnel
- ✓ Affordable for small business and scalable for enterprise deployment
- ✓ Monitoring capabilities even when the Loner Web Portal is not used
- ✓ Call-out list provides multiple layers of alert to ensure incident is addressed
- ✓ Loner Web Services enable software developers to integrate safety monitoring within a call center
- ✓ Easy-to-use web based Loner Portal for efficient mapping and setup
- ✓ Customizable Loner Web Portal account implementation for diverse customer needs
- ✓ Sharing of Loner devices across multiple Loner Web Portal user accounts
- ✓ Web-hosted Loner Web Portal user account. No software to install

## Specifications

### Software compatibility

Loner MOBILE version 3.x

### Size & Weight

**Size:** 51mm W x 32mm H x 62mm L (2.01" x 1.26" x 2.44")

**Weight:** 75g (2.65 oz)

### Safety Features

**Fall detection technology:** tri-axis accelerometer, tri-axis gyroscope, plus software processing; **Emergency latch:** Release latch to trigger alert; **Worker motion monitoring:** Configurable time window (1 – 10 min); **Worker Check-In (optional):** Check-In period (5 – 180 min)

### Buttons & Indicator Lights

**Power button:** Power on/off

**Acknowledge button:** Check-In

**Emergency latch:** Send emergency alert

**Red indicator light array plus vibration and buzzer:** safety alert triggered

**Green indicator light:** blinking (powered), continuous (connected)

### User Notification

**Indicators:** Acoustic buzzer, LEDs, and vibration motor

**Acoustic buzzer sound pressure level:** ~ 90dB @ 10 cm (~90dB @ 3.94")

### Wireless Communication

Bluetooth version 4.0

### Alert Messages

Fall Detected, Emergency, No-motion, Missed Check-In, Low Battery, Power off

### Power & Battery

**Rechargeable Li-ion battery:** 350 mAh capacity

**Battery life:** 12 hours continuous operation

**Charging connector:** 4-pin sealed connection

### Environmental

**Storage temperature:** -30°C to 75°C (-22°F to 167°F)

**Operating temperature:** -20°C to 55°C (-4°F to 131°F)

**Ingress Protection:** Designed to meet IP65

### Regulatory Compliance

CE, FCC, RoHS, SAR | FCC ID: W77LNRDUO, IC: 8225A-LNRDUO

### Device Requirements

Activation within Loner Portal, service plan, must be paired to a smartphone, Loner MOBILE must be installed on the smartphone, Loner MOBILE must be activated within the Loner Portal, Loner MOBILE service plan, GPS or WiFi coverage for locating, GSM communication

### Warranty

One year limited factory warranty

### Loner Portal Web Application

**Features Include:** Alarm banner, event history, device location mapping, device management, alert & notification settings and more  
**Comprehensive safety alert lifecycle management:** includes alert configuration profiles, safety protocol, and emergency contacts