



SURVIVAIR®

Safe. Secure. SURVIVAIR.™

Survivair Pathfinder™

Firefighter Locating System

The revolutionary **Survivair Pathfinder** firefighter locating system, utilizing the unique, patented Pulse™ ultrasonic technology, provides a means for fire department Rapid Intervention Teams (RIT) to significantly decrease the time it takes to find a downed firefighter.

Field trials have shown Survivair Pathfinder to provide a reduction of as much as 50-80% of the time it would normally take to locate a firefighter in a blind search within a smoke-filled structure. That precious time could be the difference between performing a rescue and making a recovery.



Survivair Pathfinder™ Firefighter Locating System

The Pulse (which stands for personnel ultrasonic locating safety equipment) technology, developed by Summit Safety Inc. and available exclusively through Survivair, consists of an omni-directional transmitter (the Beacon) and a narrowly focused receiver (the Tracker). On a Survivair Panther®, there are two Beacons built into the SCBA — one attached to the COMPASS™ integrated PASS device on the user's front, and one attached to the back side of the backpack (either with or without the DoublePASS™ remote alarm module for COMPASS). The Beacon is the target sensed by the Tracker, which indicates the direction and location of the downed firefighter wearing the Panther SCBA. If the firefighter is motionless and the Survivair COMPASS goes into alarm mode, the Panther Beacons are activated (they can also be manually activated). By having two Beacons — one on the front and one on the back — an ultrasonic signal will have a clear transmission path, no matter which way a firefighter has fallen.

Readouts on the Tracker show the strength of the firefighter's signal, indicating whether the firefighter is near or far, behind an obstruction, or accessible along a particular path, regardless of the smoke concentration. By scanning an area with the Tracker and then by moving in the direction of the strongest signal, the firefighter can be located.

Because ultrasound signals are reflected by walls, the path to a disabled firefighter who is located around a corner or is hidden behind an obstacle, such as furniture, can be determined. Rescue personnel can avoid being led into blind alleys and wasting precious time, as they would have been with radio frequency (RF) locating technology. Walls with a high metal content are also not a problem for ultrasound, as they would be with RF; as long as even a small opening exists around an entryway, an ultrasonic signal can be received by the Tracker.

Quickly find the path to a firefighter in trouble with the Survivair Pathfinder!

Pathfinder™ Features and Benefits

| Feature | Benefit |
|---|---|
| Sensitive, accurate ultrasound technology provides data on the location of and path to a downed firefighter | Saves precious time by steering rescuers away from blind alleys and toward firefighter; reduces rescue time as much as 50-80% in a blind search in a smoke-filled structure |
| Beacon transmitter mounted on COMPASS in front of firefighter and on back of backpack | Allows clear transmission path no matter how the firefighter falls |
| Beacon activated by COMPASS | Allows automatic activation once firefighter is motionless |
| Beacon allows manual activation | Firefighter who is trapped but conscious may generate signal for rescue |
| Tracker is lightweight, reliable, and easy to use ("point and shoot") | Simplicity eliminates training issues and promotes firefighter acceptance |

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