

Six Foot Bubbles™

Social Distance Monitoring



HELPING to ENCOURAGE PEOPLE to STAY at a SAFE DISTANCE

The advent of the COVID-19 pandemic has changed the world. With it comes a new norm: keeping people safe distances apart from each other. This means a complete change of work habits and work area designs that are new to most people. People need to be space-aware and develop new habits. The work area may need to be redesigned. Like adapting to any new habit, immediate, measured reinforcement helps. And knowing that close encounters are occurring, helps management improve spacing where needed in the work environment.

RSAE Labs' *Six Foot Bubbles™* (SFB) solution, using the *mist® Ranger*, unobtrusively integrated in a standard safety vest, provides a "gentle tap on the shoulder" for employees so they keep their distance from others in accordance with employer rules. It's a reminder of how work must change. But in order to know whether these habit changes or redesigns are effective, companies need data - real actionable data that shows when and who came too close to someone.

When people get too close, the *mist® Ranger* gives a gentle reminder to the encroaching parties via a vibration, beep and red LED. An event alert message is sent securely to a back-office server via a *mist®* mesh network that automatically forms between all the wearable devices and a *mist®* gateway. No infrastructure will be required.



SFB Key Features and Benefits

- Battery-operated ultrasonic ranging devices integrated unobtrusively into a safety vest that
 - Accurately measures when the distance between people is less than 6 feet
 - Immediately activates buzzer, vibrator, and day-visible LED when safe space is violated
 - Immediately forwards distancing violation event messages to back-office server
- Self-forming *mist*[®] mesh network of wearer devices used to securely communicate messages
- Operates in noisy RF environments by using channel hopping
- Installed and operating within hours
- All devices upgradeable and configurable over-the-air
- Easily removed and moved to other sites within hours
- **Answers the question: Who did this person come into contact with in the workplace?**

<u>mist[®] Ranger Wearable Device</u>	<u>mist[®] Wireless Network</u>
<p>Mechanical</p> <ul style="list-style-type: none"> ▪ Temperature-20 °C to +35 °C ▪ Dimensions4.3" x .75" x .37" ▪ Weight 2 Oz. ▪ Humidity..... 90% Non-Condensing ▪ Shock1-meter drop ▪ Environmental RatingIP52 <p>Battery</p> <ul style="list-style-type: none"> ▪ Battery TypeAlkaline AAA ▪ Battery Quantity2 Cells ▪ Battery Life2 Months <p>Ultrasonic Sensors (2)</p> <ul style="list-style-type: none"> ▪ Front and Rear facing.....Tethered ▪ Alert Response (sec)1.5s Nom, 3s Max ▪ Range (One Way) 7 ft ▪ Alert Range*6 ft (adjustable) ▪ Visibility360 degrees <p>* As measured from wearer's chest and back.</p> <p>User Notification</p> <ul style="list-style-type: none"> ▪ Audible Buzzer ▪ Haptic Vibrator ▪ Daylight Visible LED <p>Wireless Communications</p> <ul style="list-style-type: none"> ▪ <i>mist</i>[®] Wireless Mesh Sensor Network ▪ Mesh Hop-to-Hop Range >1,000' ▪ Supports 100,000's of sensors 	<p>Redundant <i>mist</i>[®] Gateways</p> <ul style="list-style-type: none"> ▪ Internet Connections.....Ethernet, Cell ▪ PowerBattery, Utility, POE ▪ Battery Life2 hours <p><i>mist</i>[®] Network Extender Device</p> <ul style="list-style-type: none"> ▪ Wireless ▪ No Infrastructure Required ▪ Battery TypePermanent ▪ Battery Life3 to 5 years ▪ Several mounting options <p><i>mist</i>[®] Mesh Radios</p> <ul style="list-style-type: none"> ▪ Radio Standard.....802.15.4 Phy Only ▪ ISM Band.....2402Mhz to 2480Mhz ▪ ERP < 3.3 dBm ▪ Channels16 ▪ Channel Bandwidth3 MHz <p>Certifications</p> <ul style="list-style-type: none"> ▪ All Devices.....FCC, CE ▪ WearableFCC, SARS Compliant

Made in America

US Veteran-Owned Small Business

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