RSAE LABS
RangeAware™

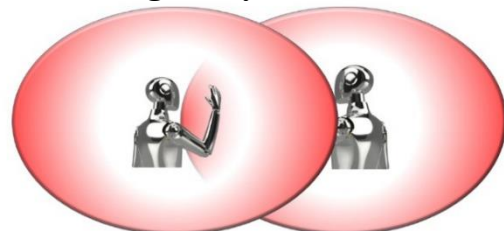# Social Distance Monitoring and Contact Tracing

HELPING to ENCOURAGE PEOPLE to STAY at a SAFE DISTANCE
Avoid Large-Scale Workplace Shutdowns

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' RangeAware™ solution, using the *mist® Ranger*, unobtrusively integrated in an adjustable safety tether, provides a "gentle tap on the shoulder" for employees so they keep their distance from others in accordance with CDC guidelines. 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. Our Contact Tracing analytics engine provides detailed metrics of employee encounters. In the event of an employee contracting COVID-19, our analytics engine will determine those at-risk employees and allow selective quarantining versus a large-scale workplace shutdown.

When people get too close, the *mist® Ranger* gives a gentle reminder to the encroaching parties. 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.

RangeAware™ Key Features and Benefits

- Battery-operated ultrasonic ranging devices integrated unobtrusively into a wearable that
  - Accurately measures when the distance between people is less than 6 feet
  - Immediately activates day-visible LED when safe space is violated
  - Immediately forwards encroachment event messages to Contract Tracing analytics engine
- 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?**

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mist® Ranger Wearable Device

Mechanical

- Temperature ....-20 ℃ to +35 ℃
- Dimensions ....4.3" x .75" x .37"
- Weight .... 2 Oz.
- Humidity............... 90% Non-Condensing
- Shock ....1-meter drop

Battery

- Battery Type ....Alkaline AAA
- Battery Quantity ....2 Cells
- Battery Life ....2 Month

Ultrasonic Sensors (2)

- Front and Rear facing.....Tethered
- Alert Response (sec) ......1.5s Nom, 3s Max
- Range (One Way) ....7 ft
- Alert Range* ....6 ft (adjustable)
- Visibility ....360 degrees

* As measured from wearer's chest and back.

User Notification

- Daylight Visible LED
- Audible Buzzer (optional)
- Haptic Vibrator (optional)

Wireless Communications

- mist® Wireless Mesh Sensor Network
- Mesh Hop-to-Hop Range   >1,000'
- Supports 100,000's of sensors

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mist® Wireless Network

Redundant mist® Gateways

- Internet Connections......Ethernet
                                          Cell (optional)
- Power ....Utility, POE

Certifications

- All Devices.......................FCC
- Wearable ....FCC, SARS Compliant

Contact Tracing Analytics Engine

- Based on latest CDC Guidelines for at-risk encounters
- Web based portal
- Contract Tracing reports
  - Exposure Risk
- Employee Location reports
- Auto Roll Call/Muster Station Reports
- Options for:
  - Lean Assessment Reports
  - Productivity Reports
  - Value vs. Non-Value Activity Reports

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