

WASP™

WEARABLE ADVANCED SENSOR PLATFORM



The WASP™ shirt is made from a comfortable 4-way stretch knit fabric that wicks moisture away from the body and dries quickly. This fabric exceeds ASTM D 6413 for flame resistance.



The Zephyr BioHarness™ 3 electronic module is small, detachable, and attaches securely to the outside of the shirt. The system tracks heart rate, heart rate variability, respiration rate, activity levels, posture, and other physiological factors.



Pebble Smartwatch provides immediate feedback to user of key metrics.



The TRX location unit is worn on a belt at the waist and provides indoor location data in 3D in GPS-denied environments.

- Flame-resistant, moisture wicking, semi-fitted, base layer shirt that incorporates Zephyr BioHarness™ 3 physiological monitoring technology.
- Shirt is comfortable for firefighters to wear continuously for a full 24-hour shift, as well as durable to withstand normal firefighter activities and multiple washes.
- Embedded strap with a low profile buckle closure contains electronic sensors and adjusts to allow the user to set it once for functionality and comfort and then unbuckle for easier donning and doffing.
- Belt-mounted location tracking unit, using technology provided by TRX Systems, permits ready integration with Android cell phones.
- Windows-based command station receives data from live sessions or logged data from memory and provides tools to rapidly analyze user physiological response over time, in addition to showing user location and tracks.
- Location system can also be used for pre-incident plan mapping of high risk facilities.



This body-worn system integrates physiological and location monitoring into a single system that collects, transmits, and displays integrated user data in real time at a command station.



ATHLETIC GEAR FOR FIREFIGHTERS.™

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