

BioHarness 3

Real-Time Portable Physiological Monitoring



The new BioHarness 3 is a lightweight, chest-worn monitor and strap that incorporates ECG (electrocardiogram) and breathing rate sensors for real-time portable physiological monitoring. The BioHarness links to a RAELink3 portable modem which transmits sensor readings and GPS coordinates in real time to a PC running ProRAE Guardian safety monitoring software. The BioHarness 3 facilitates quick assessment of an individual's health status so that work levels can be modified to reduce the risk of threats such as heat stress. The BioHarness 3 readings can be combined with a variety of other safety sensors in a detection and characterization procedure of hazardous atmospheres using ProRAE Guardian.

- Quick assessment of health status
- Reduce risk of heat stress by adjusting work levels
- Improve team efficiency
- Perform post-event analysis
- Low life-cycle cost with no consumable components

KEY FEATURES

- Measurement of heart rate, breathing rate, core body temperature, posture, and activity
- Remote viewing of real-time sensor readings on a PC within a 2-mile radius
- GPS sensor for tracking on a local map
- Continuous datalogging
- Quick setup and easy to use

APPLICATIONS

- HazMat & Emergency Response
- Confined Space Entry
- Environmental Remediation
- Industrial Cleanup
- Fire Overhaul
- Clinical Studies









BioHarness 3

Real-Time Portable Physiological Monitoring



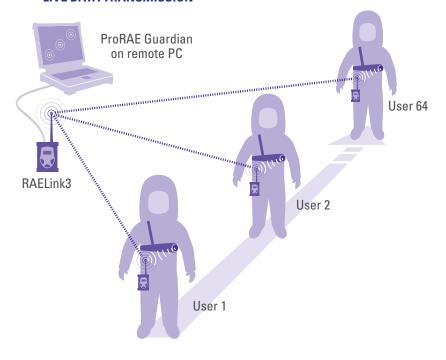
SPECIFICATIONS

Sensor Module Size	1.85" x 0.46" (28mm x 7mm)
Sensor Module Weight	0.635oz (18g)
Strap Fabric	Washable conductive smart fabric
Operating Temperature	-22° to 140° F (-30° to 60° C)
Humidity	0% to 95% relative humidity (non-condensing)
Battery	4.2V Li-lon rechargeable
Run Time	12 to 28 hours
Charging Time	3 hours
IP Rating	IP-55
Wireless	Up to 2 miles (refer to RAELink3 datasheet for complete details)
GPS Accuracy (via RAELink3)	Within 5 meters

Sensors

Heart Rate	0 to 240 BPM (±1 BPM)
Respiration	0 to 120 BPM (±1 BPM)
Activity	(±) 16g in each axis (Vertical/Lateral/Sagittal)
Estimated Core Body Skin Temperature	91° to 106° F ± 2° (33° to 41° C)
Posture	± 180°

LIVE DATA TRANSMISSION



BIOHARNESS KIT COMES WITH:

- BioHarness 3 chest strap with shoulder support harness
- USB charging cable with AC adapter
- RAELink3 Kit
- Quick Start Guide
- CD with documentation



BioHarness Kit

BIOHARNESS TEAM KIT COMES WITH:

- Eight BioHarness 3 chest straps
- Four RAELink3 wireless modems
- carrying case Complete

Rugged



BioHarness Team Kit

BioHarness is a trademark of Zephyr Technology

CORPORATE HEADQUARTERS

RAE Systems by Honeywell

3775 North First Street San Jose, CA 95134 USA RAE-InsideSales@honeywell.com DS-1066-03

WORLDWIDE SALES OFFICES

USA/Canada 1.877.723.2878 Europe +45.86.52.51.55 **Middle East** +00971.4.440.5949 China +86.10.5885.8788-3000 **Asia Pacific** +852.2669.0828