



# Military Safety System

## Heat Observation Technology

Hothead Technologies, Inc. has developed the patent pending Heat Observation Technology (H.O.T.) system which provides a sophisticated early warning system to prevent the onset of heat exhaustion, heat stroke, and other heat related conditions for military personnel operating in high temperature conditions.



Heat injuries have been a major focus of military medical providers and commanders for centuries, as successful prevention and treatment have often meant the difference between success and failure on the battlefield. According to the Medical Surveillance Monthly Report (MSMR), heat related injuries have recently seen significant increases and exertional heat illness is a clear and significant threat to the health and operational effectiveness of warfighters.

Using the H.O.T. system, a wireless biosensor inside the warfighter's helmet transmits his or hers body temperature continuously to a handheld device providing instant access to the current body temperature of all personnel in the area and generating real time audible and visual alerts, when a particular person crosses the pre-set safety threshold.

### Benefits

- Real-Time Temperature Monitoring and Alerts
- Real-Time Data Recording
- Visual and Audible Alert System
- Wireless Monitoring
- 300 Meter Read Range
- Customizable Database
- Non-Invasive
- Minimal Equipment/Devices
- Easy to install and setup
- Biosensor is easily integrated into various types of helmets

For more information please visit our website:

[www.hotheadtechnologies.com](http://www.hotheadtechnologies.com)

Or contact us at:

[info@hotheadtechnologies.com](mailto:info@hotheadtechnologies.com)

Did you know that heat stroke is the most serious of the four levels of heat illness. Progressing from dehydration to heat cramps to heat exhaustion without intervention may lead to heat stroke where the core body temperature exceeds 104 degrees.

The H.O.T. system will alert you early enough that a person in danger can be pulled out to cool down and receive liquids before he or she even feels heat fatigue.



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### Hardware Specifications

#### Helmet Biosensor

- Multiple biosensor monitoring
- Power Source - lithium battery
- Dimensions - 45 mm x 21 mm x 5 mm
- Weight - 27 grams
- Water, impact and heat resistant.
- Read/Write range - 300 meters
- Available to comply with ISO 18000-7 standard

#### Handheld

- Microsoft® Windows® CE 5.0
- Handheld - 128 MB flash, 128 MB RAM
- Color Touch Screen Display - 3.6 in. (9.144 cm) diagonal
- Full VGA 480x640 resolution
- Sunlight readable
- Touch screen (standard) - Passive stylus or finger operation
- Audio 90 dB mono speaker, Mono microphone 86 dB beeper
- AC power supply
- Desktop Docking Station (Recharge and Upload Data)

### Software Specifications

- Cloud architecture over WiFi or GPRS
- Hosted server for easy reporting and data entry
- Printable and customizable reports
- Data entry or upload from .csv file
- Easy planning and personnel list creation



Alert Screen on a handheld



Personnel Details

#### About Hothead Technologies, Inc.

Hothead Technologies, Inc., is a Dallas based company offering a patent-pending monitoring solution—the Heat Observation Technology (H.O.T.)™ system. The system was designed as an aid in the prevention of heat-related illness in athletes. Now, Hothead Technologies is targeting additional segments that have a need for biosensor technologies such as public safety, military, industrial, health and other markets. “Hothead,” “Hothead Technologies,” “Hothead Sports,” “Heat Observation Technology (H.O.T)” and the “Hothead Technologies” and “Hothead Sports logo” are registered marks of Hothead Technologies, Inc.