AID - Automatic Injury Detection

General Description

The Automatic Injury Detection (AID) system provides help in seconds when the sensing panel has been pierced by a bullet, knife or shrapnel. The AID panel sends an automated emergency alert to a phone, radio or via other communication system. The automated and instant emergency alert helps save lives. Once hit, an officer or warfighter often needs to fight, flee or becomes incapacitated such that they are unable to get help immediately. AID improves their ability and the speed at which they can get medical attention and/or backup help in the fight against the attacker.

AID Panel Inserted In Body Armor

Immediate Emergency Alert

AID Technology

The AID panel consists of a thin film with a conductive ink trace that is encased throughout the film. When that conductive trace is broken by a sharp edge or bullet (down to 22 caliber), AID detects the event and automatically sends an emergency alert over Bluetooth (or other communication method) to a phone or radio that can forward the notification through the communication infrastructure to emergency services, backup personnel, and/or dispatch/command. The panel can be worn in the front and back – typically in the body armor carrier, in front of the ballistic panel. Each panel has two separate zones so that the system can detect injuries to the upper front, lower front, upper back or lower back.

Applications

- Law Enforcement
- Military
- Border Patrol
- First Responders
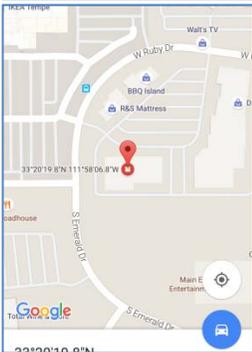- Remote Personnel at Risk
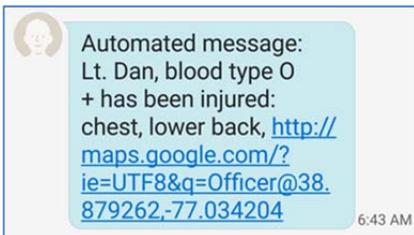
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AID Communication Solutions

AID transmits Bluetooth messages via cellular phone, Land Mobile Radio, or military radio and into the existing communication infrastructure.

Cellular Phone Connection

The AID app (Android and iPhone) from DataSoft allows the user to enter their name, pair the front/back panels, and enter phone numbers that automatically:

- Notify contact about the emergency via SMS text message. The message includes a map link to the location.
- Place an emergency phone call (Android only). The microphone is open on the phone so the injured person can inform the contact.

Land Mobile Radio Connection

AID panels integrate directly to radios that have Bluetooth functionality. The emergency alert from the AID panel(s) is sent to the radio and automatically performs the same function as the emergency button on the radio.

Dispatch Connection

Whether through the AID App on a smartphone or through Land Mobile Radio, the dispatch center can receive the accurate emergency data and location on the dispatch console.

The dispatch software/system may be capable of receiving the text message and automated phone call directly or it may be possible to send a compatible notification over the Internet to the dispatcher.

About DataSoft

DataSoft develops products for Information Technology and Wireless Communications Systems. Our products are used for intrusion detection, waveform development and porting, test automation and system integration. Our technology helps customers reduce development costs and improve time-to-market.

DataSoft partnered with Select Engineering for the AID system.

For more information about AID and DataSoft see:
www.datasoft.com
More information about AID can also be found at:
www.selectengineering.net

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