

Handwear Computer Input Device

Introduction

The HCID is a sensor-embedded glove that is capable of recognizing 1) intuitive single-handed gesture commands and 2) direct “hands-on-weapon” input actions, and relaying them to an interfaced electronic device such as a wearable computer, two-way radio, or robot control unit.

Gesture commands are recognized by a suite of sensors that sense hand posture and orientation, and hands-on-weapon input actions are detected by thin, flexible force sensors strategically placed throughout the glove.

These sensors and their supporting conduction network are fully integrated into the glove’s fabric to maintain the look-and-feel of a conventional Soldier glove.

Features

- Provides choice operating position without the need for additional weapon attachments
- Is lightweight, self-contained, and non-interfering
- Recognizes hand-arm gestures for multipurpose input and directional referencing
- Can be a versatile electronics platform for a variety of possible devices (e.g., metal detector, life-sign sensor, etc)

Benefits

HCID enhances the functionality and usability of wearable Soldier systems. You can:

- Select the view mode of your helmet-mounted display without having to take your hand off your weapon or vehicle handgrip
- Operate a small unmanned ground vehicle from a combat-ready posture
- Enjoy hands-on-weapon input capabilities without being tethered to your weapon
- Input commands into your computer using intuitive hand-arm gestures



RallyPoint, Inc. is developing the HCID under a Small Business Innovative Research (SBIR) contract from the Natick Soldier Center (NSC).

For more information, contact:
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Rugged ♦ Intuitive ♦ Flexible ♦ Fightable

