

Tactile Guidance Systems for Special Operations Forces



Tactile Guidance Systems (TGS) provide a technological advantage to ground forces.

Tactile Guidance Systems

- provide a technological advantage for ground forces
- guide, position, and coordinate soldiers
- improve the odds of mission success
- reinforce planned mission scenarios
- react to revised orders
- give clear, easily understood signals
- use tactile displays

A simple Tactile Guidance System includes an eight-tactor display, a GPS receiver, a microcomputer, and a radio data link. Crucial information is relayed to the soldier in a stealthy manner without lights or maps, and without impairing his hearing or vision. Each soldier receives independent tactile signals that tell him when and which direction to move, coordinating his position throughout the mission. Revised orders can be downloaded if necessary via the wireless data link. For example, soldiers can be instantaneously diverted to an alternate point, if the initial evacuation plan becomes untenable.



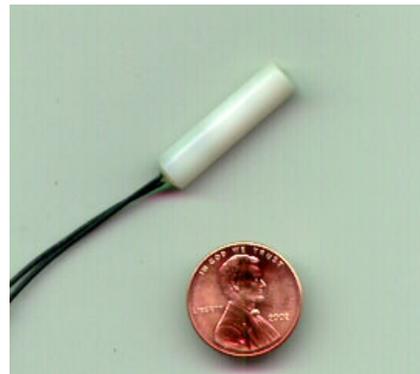
This simple eight-tactor display weighs only 100 g.

Tactile Displays

- use the sense of touch
- indicate direction intuitively and immediately
- convey simple instructions and information
- are very difficult to ignore
- are stealthy
- do not interfere with vision or hearing
- are small, light, and rugged

A tactile display consists of an array of small, lightweight vibrators (often called “tactors”). Tactors transmit information to the user by the timing, frequency, and intensity of their vibrations.

Steadfast manufactures the most advanced line of tactile display components available. Our R-1 and R-2 tactors, with their strong signals, tiny size and weight, and undemanding electrical requirements, are particularly well suited to dismounted soldier applications. See Steadfast’s R-1 and R-2 brochures for more information.



The rugged R-1 Rototactor delivers a strong signal, and it’s well suited to battery operation.

Steadfast has partnered with Consultware Inc. to provide computer interfaces, software and hardware for defense applications. Work with us to take advantage of this emerging technology. We can move quickly.

Steadfast Technologies

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