

Dismounted Soldier Gunshot Localisation System



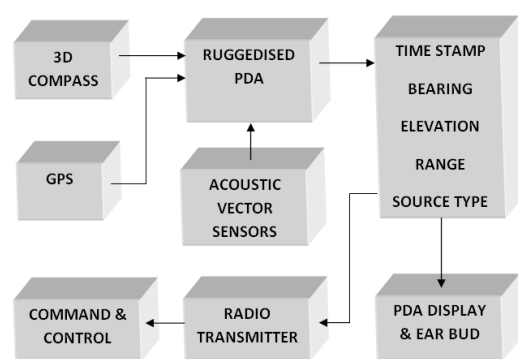
Application Leaflet

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Dismounted Soldier Gunshot Localisation System

Microflown's ***Dismounted Soldier Gunshot Localisation System*** is a passive system using acoustic signals to detect gunshots of various calibres. The system is modular, comprising of a small light-weight sensor, mounted on top of a standard kevlar combat helmet underneath the helmet cover, a 3D magnetic compass, a processing unit and a visual display unit. When gunshots are detected, the bearing, elevation and distance of the shooter are displayed and spoken (by recorded voice), in real-time, allowing the dismounted soldier to return hostile fire immediately.

The ***Dismounted Soldier Gunshot Localisation System*** is a new method for localising gunshots in 3D space and in real-time, based on compact, three-dimensional sound probes. This is new technology based on acoustic vector sensors which has only recently become available from Microflown Technologies. The new technique allows the soldiers own muzzle blasts to be ignored with only hostile fire being reported. Unlike other microphone based systems, the acoustic vector is directly measured allowing more accuracy. In addition, there are no elevation complications due to ground reflections.



Application features

- ✓ Passive system (hard to detect)
- ✓ Can detect small arms and large calibre weapons
- ✓ Small footprint and low profile
- ✓ Mounted on helmet underneath helmet cover
- ✓ Fast response time (<5ms)
- ✓ 360 degree field of view
- ✓ Bearing, range and true elevation
- ✓ Not affected by soldiers own weapon
- ✓ Minimal maintenance

