

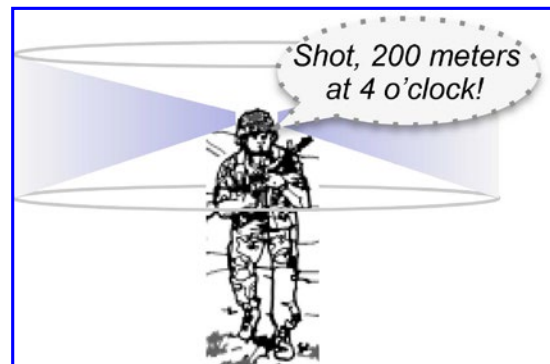
SPIDR-TACTICAL

SNIPER PROJECTILE DETECTION RADAR

SPIDR-Tactical is a battery-powered, ultra wideband radar optimized to detect hostile small arms projectile(s) of all types and to geo-locate the hostile shooter(s). Electronics and antenna array are packaged into a conformal, flexible film that lays under the helmet's fabric cover; a concept mock-up is shown below. Threats are announced in one or more ways to the war-fighter. SPIDR-Tactical is conceived as a stand-alone system, but could become a module in a future soldier system.

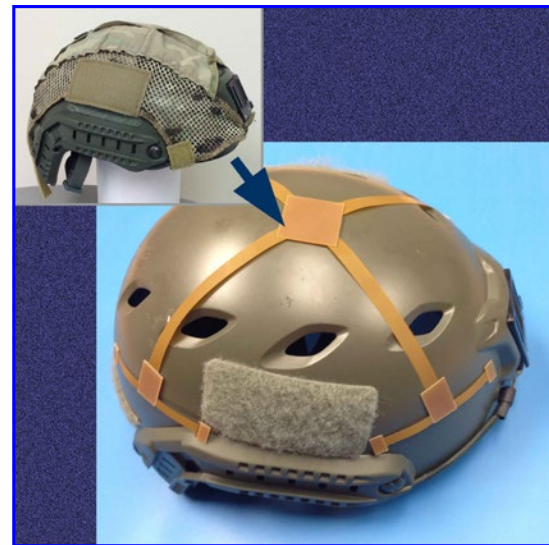
SPIDR-Tactical vision:

- ❖ Is lightweight and conformal under the helmet's fabric cover
- ❖ Stares 360° around soldier
- ❖ Gives bearing + range to shooters
- ❖ Integrates readily with future modular soldier systems



SPIDR-Tactical capabilities:

- ❖ Enhances small team survivability, lethality and awareness
 - **Well integrated.** Conformal, semi-flexible shell fits under helmet's fabric cover
 - **High performance.** Detects 99.9+% of fast, incoming projectiles passing within 10-m; reports up to 500-m range to shooter location; nil false alarms
 - **Ultra-lightweight.** 100-g including batteries for all-day ops
 - **Stealthy.** Low-power, ultra-wideband signal is undetectable
 - **Safe.** RF exposure is significantly less than a cell phone
- ❖ Avoids the shortcomings of existing acoustical or optical systems
 - **Robust detection.** Unaffected by noise, echoes, wind, downwash, sunshine, lasers, outgoing fire, far-distant shooters, unseen shooters, inaudible shooters
 - **Better User interface.** Intuitively integrated into soldier's helmet+headset—or— future modular soldier systems



SPIDR-Tactical is being developed under U.S. Department of Defense sponsorship and is ITAR-restricted.

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