

WIRELESS MILES

ENGAGEMENT SIMULATION SYSTEM

PAN: An Innovative Wireless Solution for Laser-Based Training

Cubic's next-generation MILES manworn system – the wireless Personal Area Network (PAN) – maximizes soldiers' ergonomics during force-on-force exercises. Designed with independent, small, lightweight components, the wireless PAN system can be universally configured to soldiers' tactical equipment.

Key Features

- Industry-standard wireless link replaces traditional harnesses and cables
- Elimination of cables, connectors and fabrics significantly reduces cost of ownership
- Fully integrates with Instrumentation Systems, both fixed CTC sites and mobile / homestation training systems
- Interoperable with urban operations / MOUT systems
- SAT is aligned to the weapons, eliminating need for external alignment devices
- Transit case provides convenient battery recharge and transportation capabilities

PAN incorporates the latest wireless technologies while retaining Cubic's proven methodologies gained from fielding over 140,000 MILES Systems around the world.



Wireless Technology

- PAN network utilizes IEEE802.15.4 standard, in license exempt 2.4GHz band
- Modules directly mount to soldier's battle dress/role-player's garb. Ease of mounting with negligible clutter/surface coverage
- Future proof upgrade path via addition of module

Maintenance

- Modules have integral batteries
- Equipment issued from and received into Smart Transit Case
- Batteries charged with Smart Transit Case returned from field to Stores; no equipment double-handling
- Diagnostics conducted and reported to Smart Transit Case; automatic "quality control" of manworn equipment for next exercise

Major Components

- PAN Manworn Halo
 - Laser and RF capability enabling reception of mine, grenade and IED threats, plus association to vehicle and building instrumentation
- PAN Manworn Detector Module
 - Laser and RF capability enabling combat medical treatments
 - Mount to front and back torso; optional on backpack and limbs
- PAN Manworn Display Module
 - Visual and audio (sound effects) interface to soldier
- Small Arms Transmitter (SAT)
 - Dual IR (for initial directional association) and RF link
 - Weapon simulation
- Player Unit Instrumentation
 - GPS and RF Link to CTC / MOUT Exercise Control Systems
 - RF Link into Manworn PAN



*Pan Manworn
Detector module*



*Pan Manworn
Display Module*



*Small Arms
Trnsmmitter (SAT)*



*Player Unit
Instrumentation*