

WEARNET®

WEARABLE PERSONAL AREA NETWORK

/// OVERVIEW

WEARNET® offers the Warfighter, Law Enforcement, and First Responder a highly configurable plug-and-play network that:

- Provides the backplane connectivity for POWER and DATA distribution
- Reduces the Warfighter's load with embedded capabilities
- Optimizes load distribution
- Includes human/robotic/vehicle/helicopter interfaces
- Includes tactical and covert Personal Area Network (PAN)
- Increases the user's performance and mission capability

The WEARNET system maximizes durability, reliability, and survivability and assesses influences that affect performance and operation, such as electrical loading, electromagnetic induction (EMI) (MIL-STD-461) and electrostatic discharge (ESD). WEARNET technology will improve the performance of these systems in harsh environments (MIL-STD-810) and in highly diversified, complex, and unexpected situations.

The WEARNET system is the backplane connectivity for wearable and mobile applications, including current and future integrated power and data technology. WEARNET will improve the capabilities of any Warfighter or First Responder.

Physical Optics Corporation's integrated wearable solution can also provide a power management system which can power any wearable devices as well as provide real-time monitoring of the main power supply consumption. The system also accommodates vehicle or aircraft adaptors to allow for powering/recharging body-worn electronics during mounted operations. POC's power management system is low-profile, lightweight, and easily integrated into any combatant-worn vest.

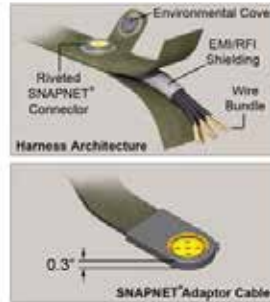


/// FEATURES

WEARNET® KIT

Pictured Right: The WEARNET Air Soldier System integrated with Primary Survival Gear Carrier System for air soldier application. Major system components are as follows:

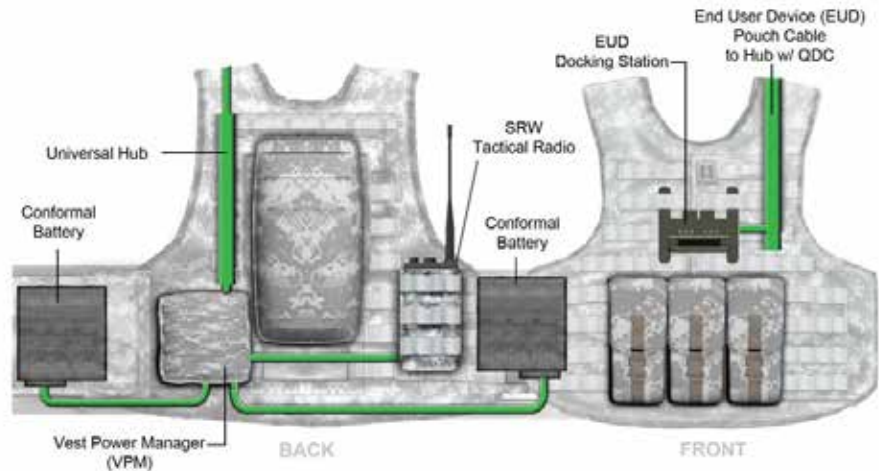
- WEARNET power/data harness
- Vest power manager
- Conformal batteries
- Soldier computer module
- Aircraft wireless intercom with patch antennas
- Live video feed through a high definition camera



WEARNET KIT

Pictured Right: The WEARNET System after integration on the Improved Outer Tactical Vest (IOTV) for ground soldier application. Major system components are as follows:

- WEARNET power/data harness
- Vest power manager with Android™ application
- Conformal batteries
- SNAPNET® connectorized pouches for tactical radio and smartphone



SNAPNET® CONNECTOR

POC's low-profile snap connector for mission equipment packages (MEPs) allows plug-and-play of any wearable electronic device.



MEP CAMERA

FLEXIBLE PDA DISPLAY (SITA™)

An advanced, energy-saving, low-profile, lightweight, flexible Personal Digital Assistant (PDA) with an Android operating system. The flexible display uses E-ink technology.

