

Current Antennas Used for the Dismounted Soldier

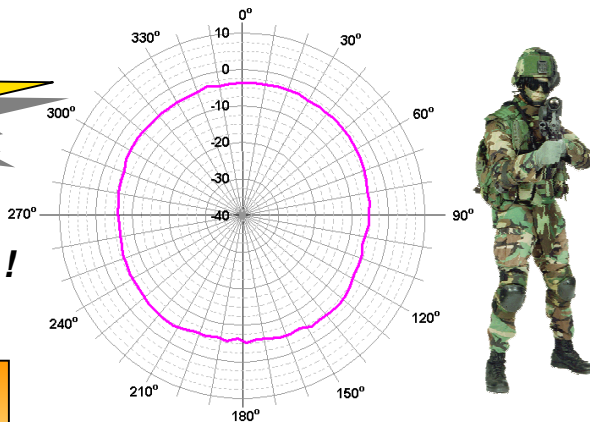
- Pronounced Profiles - **Easily Spotted By Enemy**
- Susceptible to Body Blockage Effects - **Poor Communications in Certain Directions**
- Susceptible to Damage from Foliage & Obstructions - **No Comms !**
- Are Narrowband and Tailored to a Single System - **Can't Support New JTRS & SLICE Waveforms !**



WANG BODY WEARABLE HELMET ANTENNA

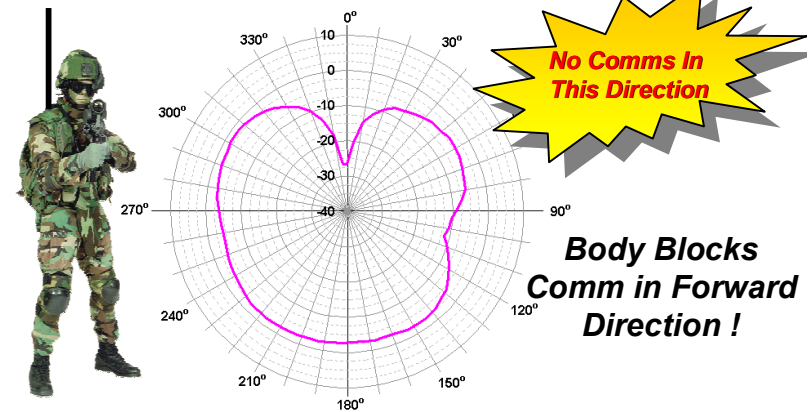
Good Comms In All Directions

No Body Blockage !



TYPICAL DISMOUNTED WHIP ANTENNA

VS



No Comms In This Direction

Body Blocks Comm in Forward Direction !

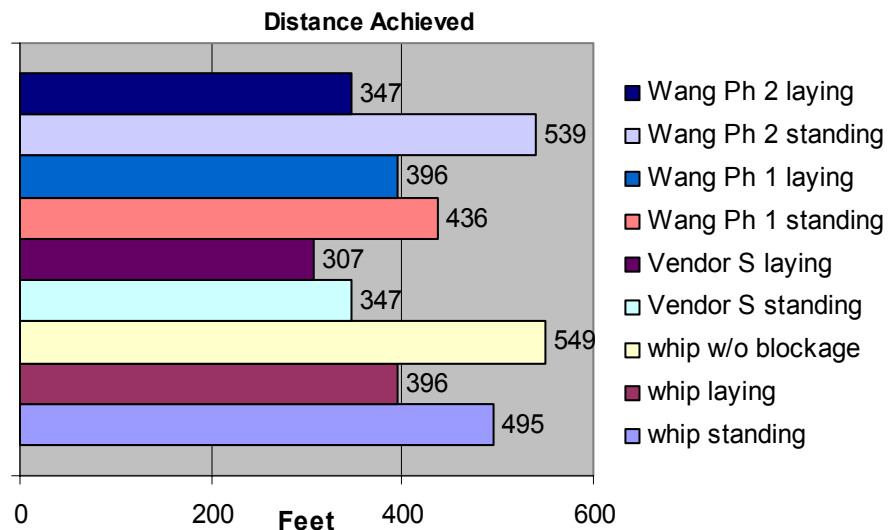
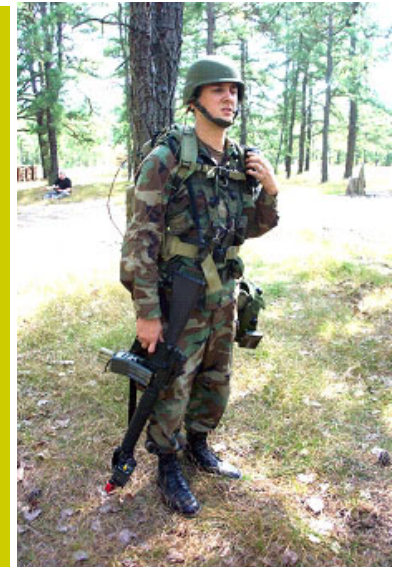
Quick Connect / Disconnect Connector



- **Covers SLICE Soldier Radio Waveform (1350-2700 MHz)**
- **Antenna Weight : 4 oz**
- **Can Be Retro-Fitted To Existing Helmets In Field**
- **Cost Effective - Reduced Attrition Rates**

C4ISR Demonstration Process

- *Line-of-sight Range Measurements (Whips and Helmets)*
- *Evaluate Range Measurements*
- *Perform a Voice Communication Test With ARC Radio System Using the 802.11 Whip Antennas and Helmet Antenna*
- *Perform a Data Transmission Test Using the Commander Handheld Application for Mission Planning (CHAMP) Software Using the 802.11 Whip Antennas and Helmet Antenna*
- *Evaluate Performance of Helmet Antenna Based on Soldiers' Comments*



Better RF Range Performance than Larger, Narrowband Whip Antenna



Specialist E4 Ronald Dangler of 104th CAV wearing the Wang Phase II helmet

Notable Features - Helmet Antenna

- *Completely Reduces the Visual Signature - No Bending Required !*
- *Not Subjected to Body Blockage*
- *Isolated From Metallic Obstructions in the Soldier Wear*
- *Wide Band Operation*