Sierra Nevada Corporation’s (SNC) Tactical Automatic Landing System (TALS) is an automatic UAV Landing System specifically tailored for land based UAV operations in small areas. TALS provides all weather, day-night; ruggedized performance with a successful recovery rate exceeding 99.95%. TALS meets the Army’s field requirements for automatic recovery, high mobility by HMMWV, two-man transportability, and a 15 minute set-up time by soldiers in the field.
TACTICAL AUTOMATIC LANDING SYSTEM (TALS)

**Ground Track System**
- Portable ground-based unit
- Locates and tracks airborne transponder
- High-bandwidth tracking loops to cover touchdown and rollout
- RS-422 interface standard, other options available
- Height (deployed configuration): 25 in (63.5 cm)
- Weight:
  - Pedestal Group: 95 lbs (43 kg)
  - Control Unit: 48 lbs (22 kg)
- Power: 110 VAC, 60Hz, less than 240 W

**Airborne Transponder Subsystem**
- Provides point source for precision tracking
- Weight: Less than 3 lbs (1.4 kg)
- Size: 2.5” x 3.5” x 7.5” (6.4 cm x 8.9 cm x 19.1 cm)
- Power: 18 VDC to 32 VDC

**Features**
- In production for the US Army UAS programs and other customers
- Combat proven
- Flexible architecture for integration with any tactical UAS System
- Auto launch option available
- Common interfaces across Ground Control Stations and UAVs
- Stowage in two-man portable ruggedized field containers
- Two-man set up in 15 minutes – proven in the field
- Logistics support in place

**Portable Ground-based Unit**

**Airborne Transponder Subsystem**