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.
TALS
Tactical Automatic Landing System

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

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

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

Portable Ground-based Unit

Portable Ruggedized Field Containers

Airborne Transponder Subsystem