SOLUTION SPEC SHEET

LIFT-AND-LAY ACTUATED ANTENNA MOUNT

LARGE ANTENNA MOBILITY, REIMAGINED

The future of telemetry and range control is mobile. Nomad overcomes a common challenge by enabling large antennas to operate independent of fixed infrastructure.

THE MOBILITY CHALLENGE

With diameters of six feet or more, telemetry antennas have special mounting and bracing requirements. Rough roads and high wind loading factors from mobile operations add stresses on equipment far above that of fixed installations.

A TRANSFORMATIVE SOLUTION

The Lift-and-Lay actuated antenna mount solution from Nomad GCS changes the way large form factor antennas, such as the TCS 1800-6, are used in mobile applications. Antennas lay flat during transport, and on location raise into position for use in 60 seconds or less.

DESIGNED FOR TOUGH DEPLOYMENTS

Engineered to support a 350-pound antenna assembly at road transport speeds up to 85 miles per hour (in lay-down configuration), the Lift-and-Lay antenna mount system gets antennas where they're needed and into service, fast.

On location, actuators raise the antenna into position in under a minute. Full integration with STIG-compliant Nomad Total Command™ (NTC), which includes TAA and NDAA-compliant hardware, ensures safe, reliable, one-touch antenna operation. Designed for 55 mile per hour sustained crosswinds, the Lift-and-Lay antenna mount is built for demanding, real-world T&E deployments.

NOMADGCS

WHEN EVERY MINUTE MATTERS

NOMADGCS.COM + 888.755.1721

SPECS AT A GLANCE // LIFT-AND-LAY SYSTEM FOR TCS 1800-6 ANTENNA

PERFORMANCE SPECIFICATIONS

- Wind Load Capacity: Supports sail force from a 6 ft diameter reflector dish in sustained crosswinds up to 55 MPH
- Transport Speed Rating: Rated for road transport up to 85 MPH with the antenna dish in stowed position
- Payload Capacity: Engineered to support a 350lb antenna system

MECHANICAL DESIGN

Actuation Mechanism

- Drive Type: Electric motor with integrated ballscrew actuator provides smooth, silent operation with zero backlash for precise positioning
- Performance: 60 second deploy time from stowed to vertical

Modular Base Construction

- Allows for post-delivery removal and replacement of the lift-and-lay system without structural modification to the host vehicle

Dish Stabilization

- Includes a transport-mode dish-stiffening spar system to minimize vibration and structural fatigue during transit

CONTROL + SAFETY

- Primary Control Interface: Integrated with Nomad Total Command™ (NTC) for safety and automation. Intelligent cross-checks are incorporated to ensure user and equipment protection during operations

Manual Override

- Includes a manual service pendant for local control
- Equipped with a physical Emergency Stop (E-Stop) button for immediate shutdown
- Safety interlocks integrated with TCS antenna safety interlock system, fully tied into the NTC for operational safeguards

POWER REQUIREMENTS

- Motor Power Supply: Operates on 240VAC input

STORAGE + TRANSPORT PROVISIONS

- Dedicated onboard storage for feedhorn and primary spar assemblies

SECURITY

- NTC is STIG-compliant, with TAA- and NDAA-compliant hardware