

TETHER KIT®

Continuous aircraft operation
for R70 & R80D

APPLICATIONS

SUSTAINED ISR

**AIRBORNE COMMS
RELAY**

**SITUATIONAL
AWARENESS**

EVENT OVERWATCH

TARGETING

FORCE PROTECTION

**CRITICAL
INFRASTRUCTURE
PROTECTION**

BORDER SECURITY



The Tether Kit enables continuous operation of the aircraft and attached payloads delivering power and data for secure and RF-quiet operations. Payload lift capacity supports a broad spectrum of mission sets. Intelligent altitude management maximizes operational envelope while minimizing operator burden.

Should a loss of tether power occur, the system will warn the operator and continue to fly on internal batteries until a low-power condition triggers either an automatic descent to a safe AGL altitude, or a safe auto-land. Highly transportable, the Tether Kit is designed for use in austere environments and may be installed or removed from the aircraft in the field within 5 minutes.

FEATURES

CONTINUOUS POWER TO AIRCRAFT AND PAYLOADS

Flight durations of 24 hours for continuous mission support.

RAPID RECONFIGURATION BETWEEN FLIGHT MODES

Modularity permits conversion between free flying and tethered modes in minutes.

SUPPORT FOR R70/R80D AND THIRD PARTY PAYLOADS

Wide range of possible mission sets: use either FLIR payloads or your own application-specific payload enabled by the Payload Development Kit (PDK).

SPECIFICATIONS

Tether length	328ft (100 m)
Data rate	50 Mbps
Max ceiling	13,000 ft MSL (4,000 m)
Payload	4.4 lbs (2 kg)
Ground station velocity	12 mph (19.3 kph)
Flight duration	24 hours*
Environmental tolerance	IP54
Wind tolerance	Up to 28 mph (45 km/hr) at AGL of 320 ft (100 m) with payload weighing 3.3 lbs (1.5 kg)
Operating temperature	14° F to 122° F (-20°C to 50°C)
Power	120V/60Hz or 230V/50Hz

* Dependent on environmental conditions.



Elistair Safe-T2 ground station shown



Tethered flight on the move



Tethered flight with StormCaster-T and TRAK

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