



CONTINUOUS AIRCRAFT OPERATION FOR R70 & R80D

FLIR Tether Kit

The R70/R80D Tether Kit enables continuous operation of the aircraft and attached payloads in support of multiple mission sets.

The Tether Kit consists of a detachable harness/power converter, battery replacement modules, and interfaces with off-the-shelf ground stations (Elistair Safe-T shown). 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. The system provides aircraft power at elevations approaching 100m AGL* across a range of environmental conditions and may be installed or removed from the aircraft in the field within 5 minutes.

** Ground station dependent.*

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).

APPLICATIONS

SUSTAINED ISR

AIRBORNE COMMS RELAY

SITUATIONAL AWARENESS

EVENT OVERWATCH

TARGETING

FORCE PROTECTION

CRITICAL INFRASTRUCTURE PROTECTION

BORDER SECURITY

SPECIFICATIONS

Tether Length	100m (300ft), 122m (400ft)*
Range of Motion	Lateral translation 25m (80ft) Yaw rotations: 10x each direction
Max Ceiling	3000m, 10,000 (ft) MSL
Wind Tolerance	See Figure 1
Ground Station Velocity	Fixed location
Flight Duration	24 hours**
Environmental Tolerance	Aircraft and airborne tether components: IP54
Operating Temperature	-10° C to +40° C
Power	120V/60Hz or 230V/50Hz

* Requires alternate ground station.

** Dependent on environmental conditions.



Battery replacement modules replace two of four aircraft batteries

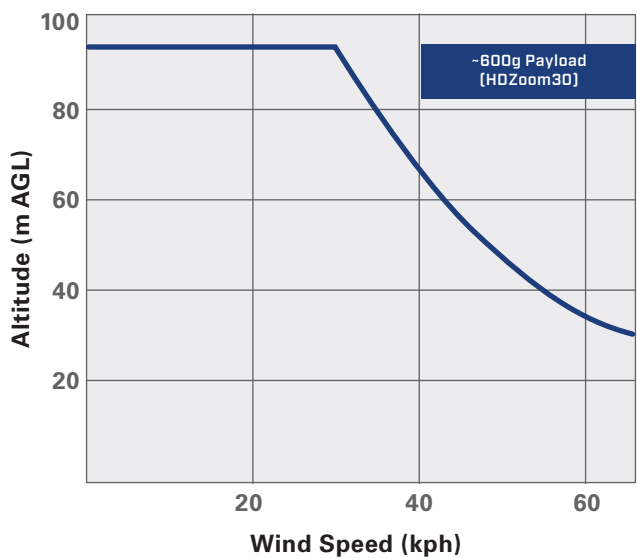
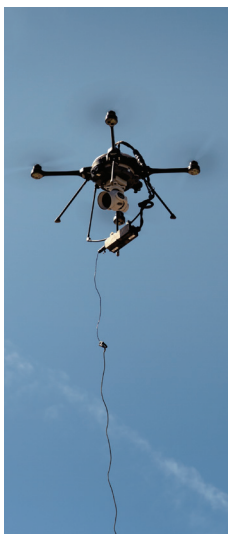


Figure 1. Wind Tolerance of Tether Kit



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