

- Quick deploy time (under 5 minutes)
- High gain carbon fibre reflector
- Light weight IATA compliant
- Compact and robust
- No assembly tools required

The TP150 antenna system from Holkirk is renowned for its compact size, light weight and powerful performance which has been designed to excel in today's increasingly demanding DSNG market place.

### Easy of use

The user friendly modular design of the TP150 antenna allows for simple, fast and accurate location and acquisition of the satellite, either as a manually controlled mount or as a fully auto-pointing and motorised system, there are no tools required to assemble the TP120.

Controlled by either a local, hand held interface or via a touch GUI screen the TP150 is simple to use, even in adverse weather conditions or hostile environments.

### Versatile

The novel light weight and sturdy tri-pod design includes a truly versatile HPA cradle which can accommodate a wide range of third party HPA's up to 400W in X, Ku and Ka-Bands, neatly doing away with the long lengths of fragile flexible wave-guide normally associated with flyaway systems.



### Revolutionary

The main reflector is manufactured from high quality carbon fibre and is supplied in six easily assembled petals that employ a revolutionary spherical dowel locking mechanism to ensure perfect alignment.

### Options :-

- < 23kg packaging option
- X, Ku and Ka band
- 3 axis Jog-controller
- Auto-Pointing controller
- Inclined orbit tracking controller



## Tri-Sat Specification

### *Antenna Performance*

Antenna (HK 120/6S)	6 Segment, 1.5m Carbon fibre reflector, Prime focus offset with high quality mode matched feed for superior cross-pol performance.
Side Lobe Performance	29-25 Log $\theta$ dBi
Polarisation Performance	XPD >35 dB
Transmit Frequency	13.75 to 14.5 GHz
Transmit Gain (Mid Band)	45.6 dBi
Receive Frequency	10.95 to 12.75 GHz
Receive Gain (Mid Band)	44.0 dBi

### *System Performance*

Azimuth range Manual / Coarse: / Fine:	$\pm 360^\circ$ $\pm 95^\circ$
Elevation range	0-90°
Polarization	$\pm 90^\circ$
Levelling	Independent levelling feet, with optical inclinometer and site level.
Ambient Temperature Operational: Storage:	-30°C to +55°C -40°C to +70°C
Solar Radiation	1,200 W/m <sup>2</sup>
Wind Speed Max. Operational (with ballast or anchors)	20m/s (45 mph),
Operating humidity	100% condensing
Rainfall Maximum	100 mm/h (4 in/h), excluding link budget effects
Sealing	All flight cases are sealed to IP65
Altitude (during transport and storage)	Up to 3,000 m (9,850 ft)
Survival:	Up to 10,000 m (32,800 ft)

## APPROVALS & COMPLIANCE

- Eutelsat/Intelsat compliant.