

# TP-120

1.2m X, Ku, DBS & Ka Band  
Flyaway Antenna



DSNG Antenna



The TP-120 antenna from Holkirk is designed to excel in today's increasingly demanding DSNG environment.

With a well proven track record the TP series of antennas provide simple, fast and accurate satellite acquisition either as a manually controlled mount or as a fully auto-pointing motorised system in the harshest applications.

**1.2m High accuracy carbon fibre reflector**

**Up to 400w Tx power**

**Fully auto-pointing options**

**No assembly tools required**

**Colour options available**

**X, Ku, DBS & Ka bands**

**BUC mounting on boom or on elevation head**

**Manual over rides on all 3 axis**

**Quick connect waveguide couplers**

This user friendly, compact and light-weight antenna is available in X, Ku & Ka bands and can be operated globally controlled either by a local hand held interface or via a touch GUI screen making the TP120 simple to set-up and operate even in adverse weather conditions or hostile environments.

The light weight but sturdy tripod design includes a truly versatile HPA cradle which can accommodate a wide range of 3<sup>rd</sup> party amplifiers up to 200w in Ku band, neatly eradicating the need for long lengths of flexible waveguide.

The main reflector is manufactured from high quality carbon fibre that employs a revolutionary spherical dowel locking mechanism to ensure perfect alignment.

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# TP-120

## 1.2m X, Ku, DBS & Ka Band Flyaway Antenna

**holkirk**

a SEMATRON  company

DSNG Antenna

### SPECIFICATION

#### Antenna

Reflector material	-	6 segment, 1.2m carbon fibre
f/D	-	0.78
Geometry	-	Single offset
Ambient Temperature		
Operational	-	-20°C to +55°C
Storage	-	-40°C to +70°C
Solar Radiation	-	1,200 W/m <sup>2</sup>
Operating Humidity	-	100% Condensing
Altitude		
Operational	-	Up to 3,000m (9,850 ft)
Survival	-	Up to 10,000m (32,800 ft)
Wind Speed		
Operational	-	30 mph (48 kph)
Survival	-	60 mph (97 kph)
Azimuth Range	-	Continuous 360 ° Manual, ± 90° Auto-point
Elevation Range	-	5 - 90°
Polarisation	-	± 95°
Packaging	-	3 cases <32kg IATA
(Option)	-	4 cases <23kg IATA

#### Electrical Data

##### X Band

Gain Rx	-38.9 dBi
Frequency	-7.25 to 7.75 GHz
Gain Tx	-39.5 dBi
Frequency	-7.9 to 8.4 GHz

##### Ku Band

Gain Rx	-42.0 dBi
Frequency	-10.7 to 12.75 GHz
Gain Tx	-43.5 dBi
Frequency	-13.75 to 14.5 GHz

##### DBS Band

Gain Rx	-42.0 dBi
Frequency	-10.7 to 12.75 GHz
Gain Tx	-45.2 dBi
Frequency	-17.1 to 18.4 GHz

##### Ka Band

Gain Rx	-45.0 dBi
Frequency	-18.2 to 21.2 GHz
Gain Tx	-49.4 dBi
Frequency	-27.5 to 30.0 GHz

#### Accessories

Manual jog, auto-acquire or inclined orbit tracking controller  
| RF mounting options | High stability LNB | Sand Shoes

