

# TP-120

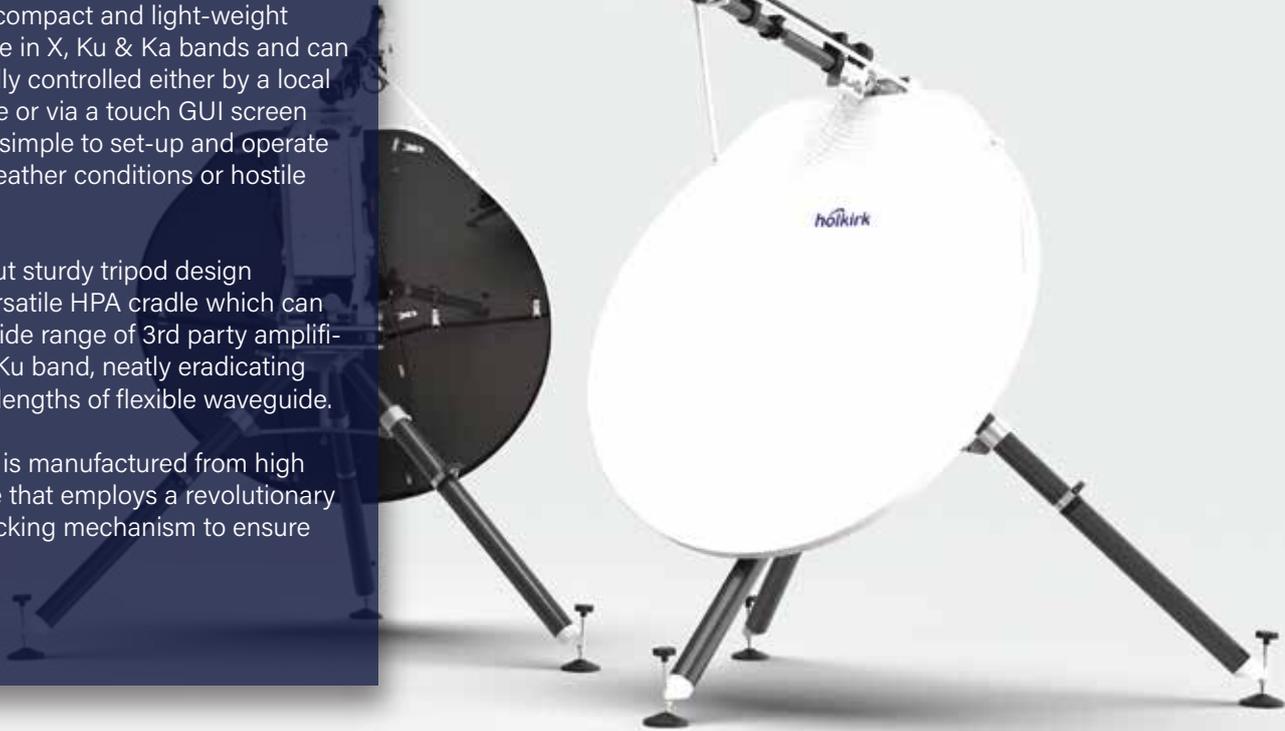
DSNG Antenna

Fly-Away Antenna: 1.2M X, Ku & Ka Band.

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 3rd party amplifiers up to 400w in Ku band, neatly eradicating the need for long lengths of flexible waveguide.

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



- No tools required
- Carbon fibre reflector
- BUC mounting on elevation head
- Up to 400W Tx power
- Manual overrides on all axis
- X, Ku & Ka bands
- Pointing assist
- Auto-acquire
- Tracking controller
- Quick connect waveguide couplers

## AIM Assist

A powerful, accurate and smooth positioning system precisely points the antenna at the push of a button and stows it after use ready to be packed away into the robust but light and weatherproof packing cases.

The Holkirk AIM antenna controller uses high accuracy feedback and a sophisticated pattern recognition algorithm to confirm and refine its heading information using visible satellites.

The system is very easy to assemble using no tools in only a couple of minutes with a fast acquisition time of typically less than 3 minutes from hitting the deploy button.

## Technical Information

### Electrical

<b>X Band</b>	
TX Frequency	7.9 - 8.4 GHz
RX Frequency	7.25 - 7.75 GHz
Gain TX	38.2 dBi
Gain RX	37.4 dBi
<b>Ku Band</b>	
TX Frequency	13.75 - 14.5 GHz
RX Frequency	10.7 - 12.75 GHz
Gain TX	43.5 dBi
Gain RX	42.0 dBi
<b>Ka Band</b>	
TX Frequency	27.5 - 30.0 GHz
RX Frequency	18.2 - 21.2 GHz
Gain TX	49.5 dBi
Gain RX	45.8 dBi

### Antenna

Reflector material	Carbon fibre
f/D	0.8
Geometry	Single offset
<b>Ambient Temp</b>	
Operational	-20°C to +55°C
Storage	-40°C to +70°C
Solar radiation	1,200 W/m2
Operating humidity	100% condensing
<b>Altitude</b>	
Operational	3,000m (9,850 ft)
Survival	10,000m (32,800 ft)
<b>Wind Speed</b>	
Operational	40 mph (65 kph)
Survival	60 mph (97 kph)
Azimuth range	Continuous 360° manual, ±90 auto
Elevation range	5 - 90°
Polaristaion	± 95°
Packaging	4 cases <23kg IATA

### Accessories

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

