## **TP100**

1.0M Ku/Ka Band Fly-away.

TP100 is the latest in the ultra-fast, quick deploy antenna system from Holkirk Communications.

The design includes a Ku or Ka Band BUC, 5 segment 1m high gain carbon fibre reflector, 'no-tools' assembly, folding feed arm assembly, quick deploy tri-pod, inclinometer and fine adjust on azimuth and elevation.

As part of an optional add-ons, the tri-pod has detachable sand feet to allow for ground anchors to be fitted ensuring maximum stability for reliable operation.

Once the antenna has been assembled (typically under 5 minutes) the satellite can be found using our MPAD3 hand held device which will assist in the pointing to any satellite. The MPAD has an integrated GPS, electronic compass and inclinometer that will give the user a target azimuth/elevation and polarisation position and actual read-out for the true position of all the axis.

The TP100 can be offered with a ruggedised IP modem. The IP modem will be attached to the rear of the antenna thus reducing the length of L-Band cables. There is space and weight budget to include the IP modem within the 2 off carry cases.







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- •Quick deploy assembly (under 5 minutes)
- Compact and robust
- •Built-in DVB-S2 reciever
- •Manual over-ride on all axis
- · 2 soft cases

Tel: +44(0)1525 721118



## **Specifications**

Antenna (HK 100/5S) - 5 Segment, 1.0m carbon fibre reflector

Antenna construction - Carbon fiber
Radiation Patten - ITU-R 580.6

XPD

on axis - >35dB Within 1dB contour - >30dB Tx/Rx isolation - >35dB

Side lobe envelope - Co - Pol will meet ETSI mask
Polarisation - Linear/Horizontal and vertical

Polarisation range - +/- 95

**Frequency Performance** 

TX - Band 1: 12.75GHz to 13.25 GHz

- Band 2: 13.75GHz to 14.5GHz

RX - 10.7GHz to 12.75GHz

Tx Gain - 42.23dBi Rx Gain - 40.2dBi G/T (at 20° elevation) - 18.09 dB/°k

LNB - 13V/18V and 22KHz tone switching

Azimuth range - +/- 360°
Elevation range - 0° to 90°

Ambient Temperature Operational - -30°C to +55°C

Storage - -40°C to +70°C

Operational Wind Speed - 75 Km/h with ballast or anchors

System EIRP - >57.5 dBi
Power Handling - >100W

Waveguide flange - commercially avaliable WR75

Communication M&C - Ethernet to BUC and Modem for control and monitor
Operating Humidity - 100% condensing

Rainfall Maximum - 100 mm/h (4 in/h), excluding link budget effects

Altitude: Up to - 4,500M (9,850 ft)

Environment - Environmental IP65 ra

nt - Enviromental IP65 rated Manpack terminal to be water-proof and dust-proof to operate in outdoor enviroment.

MTBF - 150,000 hours MTTR LRU - < 1 hour

Power Requirements - AC 110/240 VAC +/- 20%

Set up time - 20 minutes

Case weight - Case 1 - 22Kg

- Case 2 - 22Kg

De-icing kit passive type - Antenna and feed

Options:

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MK45 3PD