

TP100 is the latest in the ultra-fast, quick deployable antenna systems from Holkirk



The lightweight, high quality and reliable construction in conjunction with high gain 1m carbon reflector will ensure excellent performance even at the extremities of satellite footprint. The TP100 is ideal for store and forward, breaking news, occasional or permanent satellite communication and can form the heart of an IP network injection point from remote locations.

The system has been designed to interoperate with all the current 4G/5G bonding video encoders, giving excellent resilience to the modern IP video link.

Ease of pointing

Once the antenna has been assembled (typically under 5 minutes) the satellite can be found by using our AIM ASSIST handheld device which will assist in the pointing to any satellite. The AIM ASSIST 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 AIM ASSIST has a built-in signal strength meter to allow accurate peaking to the satellite.

Power options

The Broadcast TP100 is powered from a IP65 power distribution unit. This unit will supply power to the modem, Wi-Fi Router and BUC, reducing the number of separate power supplies required, thus reducing weight.



AIM ASSIST, a manual assist antenna controller designed to enhance the pointing accuracy of manpack and portable terminal antennas.

RF options

For high data-rate KU-Band broadcasting the TP100 can be fitted with either a 30W or 55W BUC or for lower data rate IP circuits 6W or 8W BUC will be utilised.

Robust

The design includes a 5 segment, 1m high gain carbon fibre reflector, 'no-tools' assembly, folding feed arm assembly, quick deploy tripod, inclinometer and fine adjust on azimuth and elevation. The tripod has detachable sand feet to allow for ground anchors to be fitted ensuring maximum stability for reliable operation.

- 1m, 5 segment carbon fibre reflector
- Ultra-portable, no-tools assembly
- AIM ASSIST Point Aid (simple to line up)
- Integrated GPS and electronic
- Compass
- 16W and 55W RF power options
- Optional dual band (Ka/Ku)
- Two soft cases (under 23kg) for complete systems
- Optional - IP65 rated modem
- Optional - IP65 rated Wi-Fi and GSM
- High wind option
- IATA compliant cases.

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Technical Specification

Receive (GHz)	10.7 -12.75GHz
Transmit (GHz)	13.75-14.5GHz
Mid-band Gain	
Receive	40.1 dBi
Transmit	41.8 dBi
Polarisation	Cross POL
BUC Power Options Ku-Band:	6W, 8W, 16W,30W, 55W
Ka-Band:	3W
Azimuth Range Manual	
Coarse	±360°
Fine	±10°
Elevation Range	
Coarse	5-90°
Fine	±10°
Polarisation	±90°
Ambient Temperature Operational	-20°C to +50°C
Solar Radiation	1,200 W/m ²
Wind Speed (with ballast or anchors)	20m/s (45 mph)
Operating Humidity	100% condensing
Rainfall Maximum	100 mm/h (4 in/h) excluding link budget effects
Altitude	Up to 3,000 m (9,850 ft)
Survival	Up to 10,000 m (32,800 ft)
Case 1	75cm x 47cm x 37cm (15kg – Depending on options)
Case 2	75cm x 47cm x 37cm (15kg – Depending on options)
Ka-Band option	
Case 3	75cm X45cm X 37cm 15kg (Ka-Sat option)

