

CF-100

1.0m X, Ku, DBS & Ka Band Flyaway Antenna

Rapid Deploy Antenna



The CF-100 Rapid Deploy antenna from Holkirk is designed to be operated by soldiers, first responders or broadcast correspondents in any of today's increasingly demanding environments and reliably transmit from anywhere in the world.

With a proven track record the CF-100 antenna provides intuitive, rapid and accurate satellite acquisition in a light weight but flexible and robust package in X, Ku, DBS or Ka bands with the ability to change parameters rapidly, mid-mission.

With its rugged ability to operate in all weathers, transmitting at maximum bandwidth with the option to change frequency or move location rapidly the CF-100 offers maximum flexibility and value for money.

1.0m High accuracy carbon fibre reflector

Less than 5 mins from case to lock

Fully auto-pointing

No assembly tools required

X, Ku, DBS & Ka bands

Quick change RF chain

Manual over rides on all 3 axis

Quick connect waveguide couplers

One person can easily transport and set-up the system achieving operational level within a few minutes, simply and without needing any tools.

The light weight but sturdy layout allows for a massive degree of terrain inclination and includes a truly versatile HPA cradle which can accommodate a wide range of high power, 3rd party amplifiers, interchangeable in seconds as either a power variant or a complete frequency band change.

With a wide variety of ruggedized electronics available to customise your mission the CF-100 is adaptable to you.

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SPECIFICATION

Antenna

Reflector material	-	6 segment, 1.0m 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 ²
Operating Humidity	-	100% Condensing
Altitude		
Operational	-	Up to 3,000m (9,850 ft)
Survival	-	Up to 10,000m (32,800 ft)
Wind Speed		
Operational	-	40 mph (65 kph)
Azimuth Range	-	± 90°
Elevation Range	-	5 - 90°
Polarisation	-	± 95°
Packaging	-	2 cases <23kg

Electrical Data

X Band

Gain Rx	-35.0 dBi
Frequency	-7.25 to 7.75 GHz
Gain Tx	-36.7 dBi
Frequency	-7.9 to 8.4 GHz

Ku Band

Gain Rx	-40.1 dBi
Frequency	-10.7 to 12.75 GHz
Gain Tx	-41.8 dBi
Frequency	-13.75 to 14.5 GHz

DBS Band

Gain Rx	-43.4 dBi
Frequency	-10.7 to 12.75 GHz
Gain Tx	-47.2 dBi
Frequency	-17.1 to 18.4 GHz

Ka Band

Gain Rx	-47.1 dBi
Frequency	-18.2 to 21.2 GHz
Gain Tx	-51.0 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

