

Type 5 X/Y Tracking Antenna

KEY FEATURES

- X/Y axis configuration
- No 'cone of silence' at zenith
- Ideal for tracking LEO, MEO and GEO spacecraft
- Ethernet (TCP/IP) antenna control and monitoring
- Bespoke software control
- Low power consumption
- High reliability

AVAILABLE OPTIONS

- Dual frequency / polarization
- High performance LNAs
- Full RF chain:
 - Frequency converters
 - Spectrum analysers
 - RF switching
 - Demodulators/modems
 - Uplink amplifiers
- Anti-icing
- Webcams
- Vehicle mountable
- Radomes



MECHANICAL

Antenna Mount	Type 5 X/Y
Aperture Size	6.0m—7.6m (Outdoor System) 6.0m—9.0m (In-Radome System)
Pointing Accuracy	<0.1°
Position Step Resolution	0.00004°
Acceleration	10°/s ² max
Velocity	4°/s typical
Degrees of Freedom	2 (X and Y)
Axis Travel	Full hemispheric coverage
Horizon limits	-2° typical

CONTROL SYSTEM

Interface	Ethernet
Power	Single phase or 3 phase options

RF

Frequency Range	L, S, X, C, Ku and Ka Band
Polarisation	LHCP and/or RHCP
Feed Configuration	Prime Focus or Cassegrain
Subreflector	Reflective or Frequency Selective
Performance	Please enquire

ENVIRONMENTAL

Wind Speed	90km/h wind (Operational) ⁽¹⁾ 200km/h wind (Survival)
Temperature	-40°C—+50°C (Operational) ⁽¹⁾ -45°C—+60°C (Survival)
Humidity	100% Relative Humidity
Driving Rain	Upto 10cm/hr

CGC SPACE

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(1) Optional measures (heaters, radomes, HVACs) can be taken to improve operational environmental limits