

GI TerraLink 370 EO

3.7m S/X Band Earth Observation Ground Station

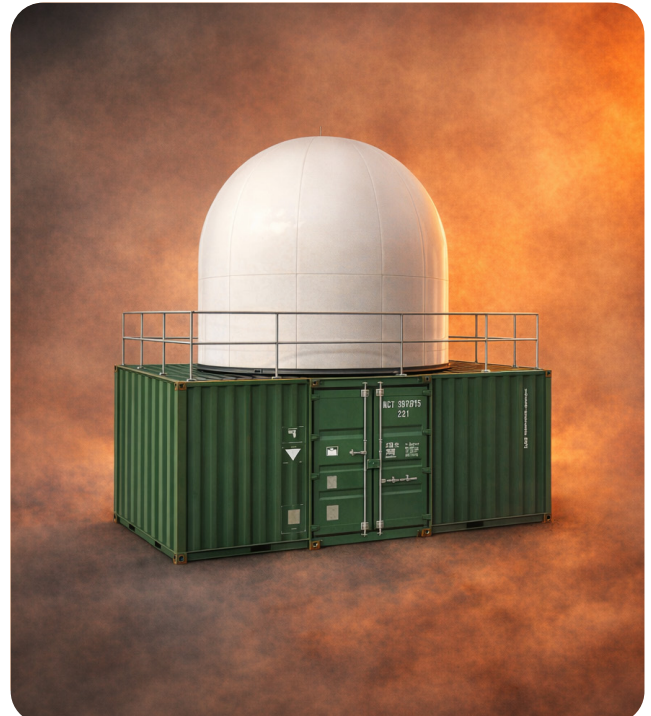
The Complete EO Solution

The GI TerraLink 370 makes it easy to get online, expand your network, and optimise your Earth Observation data delivery performance.

Earth Observation plays a crucial role across a growing range of business- and mission-critical applications. The GI TerraLink 370 is a complete, fully integrated 3.7m Earth Observation ground station empowering you to maximise data acquisition and network utilisation, across all orbits and in the harshest environments.

The GI TerraLink 370 represents the culmination of more than 30 years designing and building highly reliable, cost-effective terminals for a range of critical applications. With proven cost- and performance- optimisation, it provides highly accurate tracking and uninterrupted data in the most extreme conditions, with significantly enhanced reliability and lower operating costs.

The versatile system is network-ready and can be quickly and easily installed on pads, rooftops, frames, or using our innovative redeployable containerised version for fast startup on green field sites.



Product Features

- Full-sky coverage with true tri-axis (El, Tilt, Az) motorised positioner
- Eliminates “keyhole” effect for complete EO pass capture
- Dual tracking modes: programme track and signal-based auto-track
- Integrated selective power meter for auto-track on any band
- Simultaneous dual-polarisation S- & X-band Rx and simultaneous S-band Tx and Rx Simultaneous S-band transmit and receive
- Supports a range of established RF manufacturers; 10 W SSPA standard, scalable up to 200 W
- Optional NAS for store-and-forward of data
- Integrated scheduler, permitting pre-planned contact schedules for up to 30 days
- Mature and intuitive single-pane-of-glass UI for operations and diagnostic
- Full and secure local and remote monitoring & control
- Install options: concrete pad, platform, rooftop, or container
- Available as a container-mounted system for rapid deployment and relocatability
- Secure remote management and monitoring, easily integrated and optimized
- Radome enables uninterrupted performance across a wide environmental range (-40 °C to +60 °C) - □ Enhances reliability and tracking unaffected by wind, snow and ice

Specifications (Typical Performance)

RF			
Frequency Band	S Band		X Band
	Rx	Tx	Rx
Operating Frequency, GHz	2.2 - 2.3	2.025 - 2.11	7.9 - 8.5
Polarisation	LHCP/RHCP		LHCP/RHCP
Antenna Gain, dBi	≥35.7 at 2.25GHz	≥34.9 at 2.07GHz	≥48.18 at 8.1GHz
3dB Beamwidth, °	≤2.4	≤2.6	≤0.68
G/T, dB/K (20° EI)	12.7		25.5
Power Handling Capability, W		200	
Axial Ratio, dB	≤1.5dB		≤0.6dB
Antenna Sidelobe Envelope	≤14dB		≤14dB
Optics	Ring Focus (folded optics)		
VSWR	1.35		1.25
Mechanical			
Antenna	3.7m Steel/Aluminium		
Motorisation	3 Axis motorized system Elevation, Tilt and Azimuth		
Range of Motion	Elevation 5° - 100°, Tilt 0° – 7°; Azimuth 0° – 540°		
Antenna Speed/Acceleration	12°/sec; 12°/sec/sec		
Tracking Modes	Program Track (TLE); Auto Track (Signal track; pseudo Monopulse)		
Pointing Accuracy	0.5° (program track); 0.05° (auto-track)		
Controller	Global Invacom APS700/APS910		
Environmental			
Wind Speed	≤185km/hr (115miles/hr)		
Temperature	-25oC - +55oC (-40oC - +60oC Optional)		
Rain	≤101mm/Hr (4in/Hr)		
Humidity	100% Condensing		
Power	200-264 VAC; 47 – 63Hz		

Containerised Option Outline Drawing

