SATRAK150 polar orbiting satellite groundstation



Features

- High performance L-Band tracking
- Fully automatic operation
- Integrated Feed, LNA and Downconverter
- Acquisition processing software
- METEOR image processing and display package
- High reliability
- Low cost

Applications

The SATRAK150 is a fully integrated satellite tracking, acquisition, and processing system for the reception of data from polar orbiting environmental spacecraft NOAA satellites.

It includes a powerful workstation, software for antenna control and automatic operation, data processing software, and a collection of general image processing and display functions using the ES&S satellite image processing system METEOR.

A fully automated system, the SATRAK150 earth station offers the latest in hardware and software technology for a wide variety of ocean, land, and atmosphere applications.

These applications include:

- Meteorology and Weather Forecasting
- Physical & Biological Oceanography
- Hydrology
- Fisheries
- Wildlife Research
- Agriculture & Forestry
- Naval & Coast Guard Operations
- Vulcanology
- Climate and Global Change Studies
- Land-based Change Detection Studies (e.g. urbanization, tropical deforestation, desertification)





Technical Specifications			
Mount		Downconverter	
Mount Configurat Antenna Diamete Pointing Accuracy Wind Loading	r 1.5m 1 deg 180 km (inside radome)	Input Frequency Output Frequency Gain	
Slew Rate Environmental	>5 deg/sec IP65	PBB ingest Card / Receiver	
Mains Supply Temperature Ran Encoder Accuracy	_		SK, PSK 5.4 Kb/s(1.4Mb/sec option)
FEED and LNA		Tracking Control Software	
Noise Figure 6 Frequency	45 dB 50 deg K 1695—1709 GHz RHCP	 Satellite ephemeris retrieval Scheduling Vector calculation and antenna control Maintenance logging 	

Note: Specifications are based upon a basic 1.5m HRPT SATRAK150 groundstation. The SATRAK150 is under continuous technical review and product improvement. Therefore, specifications may change without notice.

2m Radome - Kevlar Reinforced Fibreglass



Antenna Controller and Power Module



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