S3 SATCOM SATSIO
Small antenna tracking and pointing system

Robust 2 or 3-axis motorised antenna mount for 1.2, 1.8 or 2.4m antennas.

High quality build rack mounting controller with easy-to-use front panel.

Easy access using web client to monitor and control one or many systems.

Rapid selection and pointing at satellites, with automatically updated database.

Reliable inclined orbit tracking using NORAD data and advanced algorithms.

Accurate position sensing with 16-bit absolute optical encoders.

Flexible systems integration with extensive external device connection facilities.

Fully featured Remote Control and Monitoring Protocol for NMS.

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The Satsio mount provides a highly robust and accurate assembly for small antenna tracking...

Wide Az/El/Pol Range — Satsio provides inherently orthogonal azimuth and elevation motion, with a 5° to 90° elevation and 120° azimuth range. Supporting 1.2m, 1.8m and 2.4m single and dual optic antennas with optional Ku-band ±90° polarisation motorisation.

Accurate Sensing and Control — Pointing with a 0.01° accuracy is achieved using 16-bit absolute optical encoders for angle readout and PWM programmable motor drives for maximum position control. Motorisation is provided by 36v dc linear actuators.

Robust Mechanical Build — Made from heavy gauge steel hot dip galvanized for maximum environmental protection, the Satsio mount fixes directly to a 3”, 4” or 6” pipe, kingpost or non-penetrating mount. Az/El jacks are load tested and selected for optimal performance.

The Satsio controller provides robust and reliable operation and comprehensive monitoring of key systems...

Turn-key controller — The Satsio controller is a 19” rack mounting unit with a front panel display and operator keys. Containing all the hardware and software needed. Simply select a satellite and then automatically track with the Satsio mount.

Advanced tracking software — Antenna pointing uses advanced modelling to calculate the exact position of the satellite at any one time using the NORAD ephemeris data automatically and regularly downloaded by the controller via the internet. Steptrack using an external beacon receiver is also supported.

Connect external devices — Relay contacts, analogue voltage inputs, status inputs and open collector outputs are all provided to interface easily with external systems and devices. A full remote control protocol is also supported, allowing seamless integration into a station NMS.

Satsio is supplied with an integral web server as standard, with separate pages for PC and pocket tablet control...

Anywhere monitor and control — The Satsio user-friendly web interface monitors and controls one or many Satsio installations and any external devices or systems attached to them, removing the need for an expensive separate M&C system.

Accurately track inclined orbits — With NORAD tracking enabled and Satsio regularly downloading the ephemeris data from the internet, the Satsio will automatically move to the precise current position of any accessible satellite and accurately track its position.

Rapidly point at satellites — The operator selects which satellite should be tracked from a regularly updated list of available satellites. Alternatively, directly enter the azimuth, elevation and polarisation of the satellite and the system will move to that position.

S3 Satcom headquarters is in the United Kingdom. The company operates globally through a network of value added resellers.

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S3 Satcom provides broadcasters, telcos and corporations with specialist satellite communications products and services.

Our products and systems include fixed earth stations, VSAT networks, M&C software and the market-leading Satsio small antenna tracking and pointing system.

ABOUT S3 SATCOM

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