

IDEAS ENGINEERED

Q-par Angus Ltd



All Weather Positioner



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Q-par Angus Ltd

Designed and Manufactured in England to the highest standards

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All Weather Positioner



Side view of positioner

Q-par Angus offers a range of All Weather Positioners based around a single design. The positioners have been designed to operate with reflectors of up to 4.5 m in diameter. The positioner can cover 'whole sky' and can be used for surveillance, tracking and SIGINT as well as other signal/tracking purposes. The positioners are equipped with brakes on all axes in occurrence of power failure.

The positioner is available with an extra locking button on the elevation designed to lock the yoke vertically when using the positioner in high wind situations. It is also possible for the positioner to be fitted with peltier coolers, heaters and an air dryer may be incorporated if required for demanding weather conditions.



Elevation axis locked



All Weather Positioner



Positioner on folding base for transportation purposes (designed to customer's specification)

Controller

A Servo Controller Unit is used for each axis. The positioner is controlled via a single RS232 connection (others available on request) which is primarily designed to be controlled by our Graphic User Interface (GUI). Please see page 3 for details of the GUI.

Typical Specification

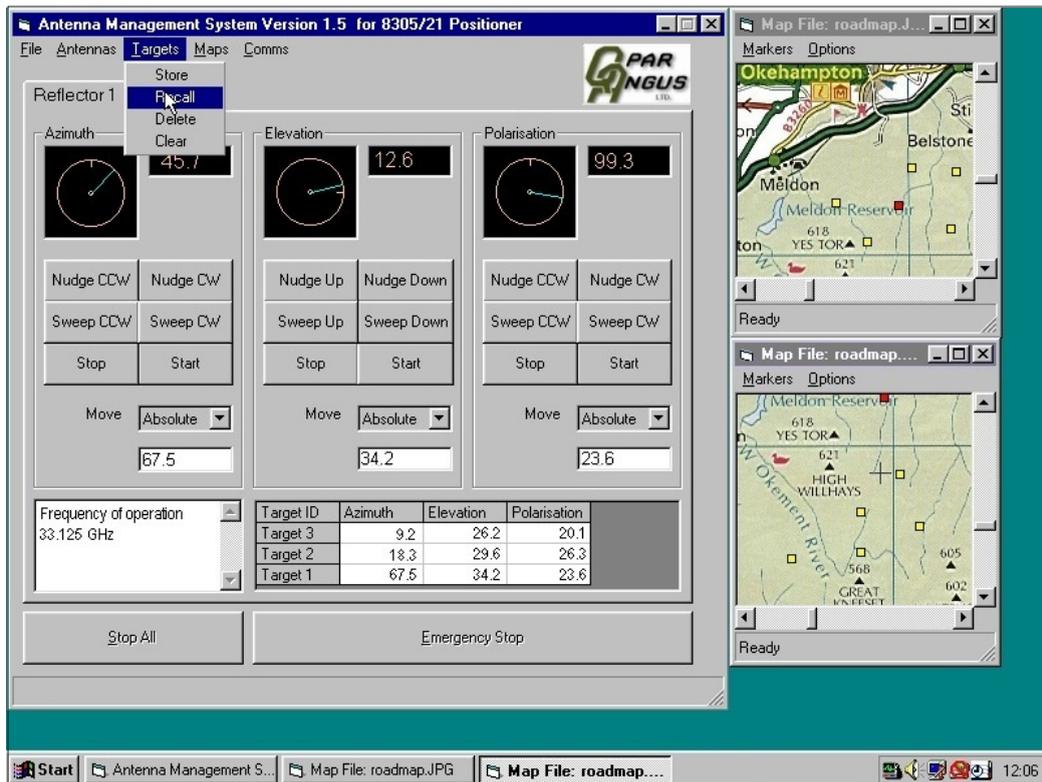
| | | | |
|-----------------------------------|---------------|-------------|----------------------------|
| Positioner Movement, Azimuth | (degrees) | +/- 190 | (or +/- 360 degrees cont.) |
| Positioner Movement, Elevation | (degrees) | -15 to +90 | |
| Positioner Movement, Polarisation | (degrees) | 360 | (optional unit) |
| Velocity, Azimuth | (degrees/sec) | 2.3 to 21.4 | (dependent on model) |
| Velocity, Elevation | (degrees/sec) | 2.3 to 21.4 | (dependent on model) |
| Velocity, Polarisation | (degrees/sec) | TBC | |
| Max Output / Drive Torque | (kNm) | 2.5-2.3 | |
| Positioner Weight | (kg) | 150+ | (dependent on model) |
| Accuracy | (degrees) | 0.02 | |

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Antenna Controller System & Graphic User Interface (GUI)



The GUI controller illustrated above facilitates :-

- Independent control of multiple positioners
- Target store and recall
- Workspace save and load
- Use of serial ports or network connection to controllers
- Surveillance and sector scan
- Use of maps as an operational aid

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