

QUATTRO SE

MANUALLY OPERATED PEDESTAL

The latest new addition to the Vinten Radamec Range, the **Quattro SE** is a lightweight and compact manually operated pedestal with built in encoders, making it perfect for today's virtual studios.



Building on the award winning Quattro S, the SE variant maintains all of the benefits of the ergonomically assisted lifting column, the small doorway width, and the on shot performance of any Vinten pedestal.

To provide the tracking solution, high quality precision encoders have been integrated into the wheels and column, providing precise real time digital electronic positioning over the floor and in elevation.

Basic encoder feedback does not produce a wholly worthwhile output as can be seen in most Virtual Reality pedestal solutions available. In order to negate the impact of 'scrubbing' or dragging of the wheels an algorithm has been developed.

The algorithm uses the motion data from each of the seven encoders to provide an error correction estimation, which has shown itself to be an improvement in accuracy by a factor of ten over other pedestal tracking solutions.

To deliver the accurate position data for all axes two electronics modules are included, a base processor and a head processor.

A PDA is included to provide the configuration and operational user interface, simplifying the set up in the virtual studio, as well as providing the operator with useful positional feedback, and calibration data.

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In keeping with Vinten Radamec's aim to simplify tracking solutions, the output from the pedestal is integrated with the 900E, 950E and 250E head and lens position feedback into a single clocked channel to the rendering system of a virtual software image generator.

To calibrate the pedestal with a studio a target is placed on the floor, and a simple sweep over by the pedestal in the set up mode allows the position to be realised immediately.



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Technical Specification

Maximum Height	1498mm
Minimum Height	498mm
On-Shot Stroke	1000mm
Ground Clearance	20mm
Cable Guards	Single point action
Repeatability	+/-5mm/1.0° over 3m straight line and return
Degrees of Freedom - Pedestal only	3 (X, Y, Z)
Degrees of Freedom – additional to pedestal, but included in serial protocol output	4 (P, T, Z, and F)
Resolution (X, Y, Z)	+/-<1mm
Resolution (Orientation)	+/- 0.02°
Position Protocol for VR system	Available on request

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