



HAPTION

→ Virtuose 3D Desktop

The Virtuose 3D Desktop is a haptic device specifically designed for bidirectional interactivity with virtual 3D application. It provides 3 degrees-of-freedom (DOF) with force-feedback, and 3 DOF with position feedback.

Its workspace and its small overall dimensions intend it for a use on individual workstations, equipped with a standard monitor.



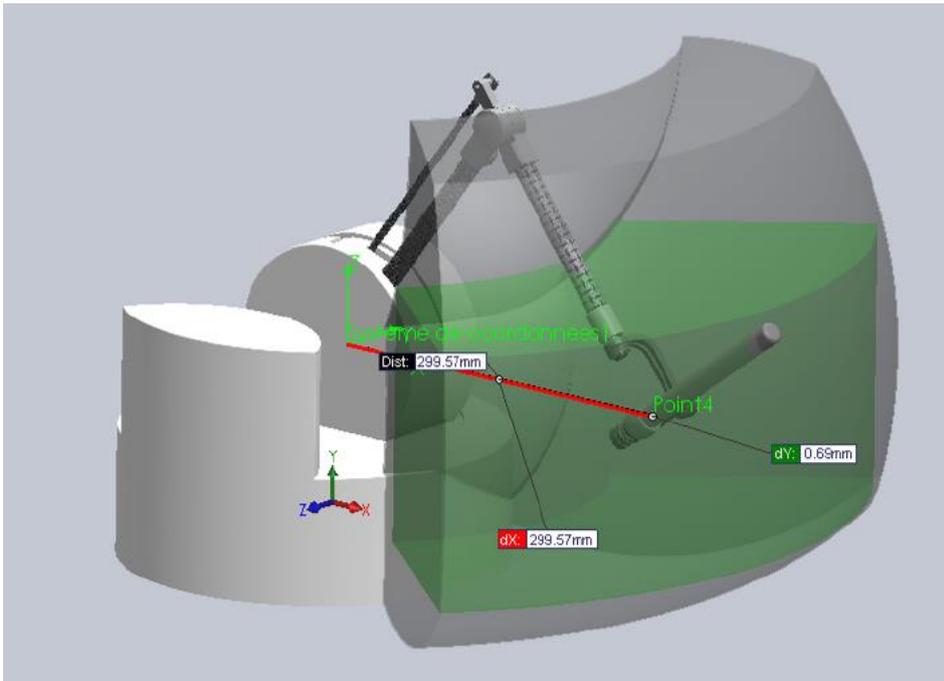
Technical Characteristics

The main characteristics of the Virtuose 3D Desktop are :

- ✓ 6 degrees of freedom position feedback
- ✓ 3 degrees of freedom active force-feedback
- ✓ Operational workspace corresponding to the movements of the lower arm pivoting around the elbow: 521 x 370 x 400 mm and 270° x 120° x 250°
- ✓ Continuous force of 3N (Maximum force of 10 N)
- ✓ Passive weight balancing with springs
- ✓ Tool fixation through a standard 1/8th inch axis for easy customization
- ✓ Lightweight, no specific equipment needed for transport
- ✓ Support of both impedance (force) and admittance (position) control
- ✓ Development kit (API) available for Microsoft Windows and Linux (32 and 64 bits)
- ✓ Communication through Ethernet/UDP

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workspace ←



The Virtuose 3D Desktop is composed of two main articulated segments fixed on a rotating base. The second segment ends with an articulated wrist, which can rotate around three concurrent axes. As a consequence, the haptic interface is a 6 degrees-of-freedom device, with force-feedback on the 3 first axes. The structure of the Virtuose 6D Desktop makes it possible to work in a volume of 521 x 370 x 400 mm. The center of the square is 30 cm from the base of the device. The resolution in position is of 0.01 mm.

← Characteristics

Number of motors	3
Type of motors	DC
Output power of the motors	60W in 48V
Power supply	100-240 VAC one-phase
Power consumption	Less than 200W
Peak maximum force	10 N
Peak continuous force	3 N
Apparent Inertia	150g
Weight of the haptic arm	3.4 kg
Weight of the power supply	2.1 kg

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