VIRTUOSE 3D RV ™ HIGH FORCE

haption

The Virtuose 3D RV is a 6 degrees-of-freedom haptic device with 3 active force feedback translations.
The Virtuose 3D RV is specifically designed to interact in Virtual Reality environments. Thanks to its large workspace and high forces, it enables a scale one interaction with digital mock-up.

Research

Virtual Reality

Medical co-manipulation

Medical training & simulation

3 ACTIVE TRANSLATIONS + 3 PASSIVE ROTATIONS = 6 MEASUREMENTS

✔ Passive weight balancing
✔ Ethernet/UDP communication system
✔ Removable handle, equipped with 3 user buttons and a presence sensor
✔ Software interface:
  ✔ Drivers (binary and/or source code) available for: Python™ for IPSI™, ROS™, ROS2™, CHAI3D™, ODE™, Matlab Simulink™, LabVIEW™
  ✔ Dedicated plug-ins for: 3DExperience™, Catia™ & Delmia™ V5, Solidworks™
  ✔ Solutions for Unity, UnReal, and other real-time interactive simulation platforms by our Partners : LS Group, Tree-C, TOIA Ltd, …

1330 mm
575 mm
1210 mm
90°
290,99
948,32
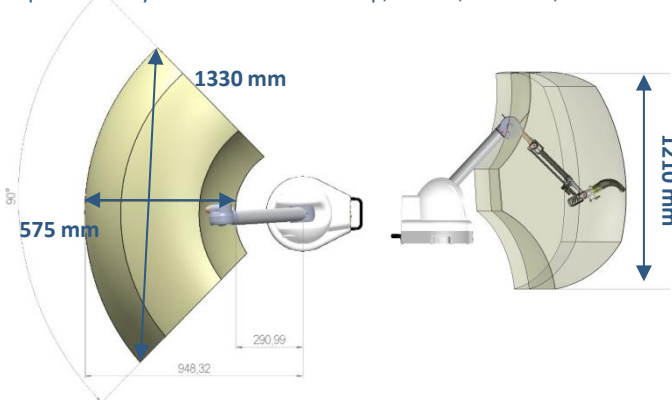
MODULARITY

The end-effector is easy to remove and replace, with no tool, in order to customize the application and reinforce the sensation of immersion.
The end-effector is equipped with three user push-buttons, one permit for instance to be used a shift feature to extend the workspace.
User push-buttons status are provided to the software interface.

The end effector orientation can be modified.
The device can be configured in up-side-down position.

We are available to discuss with you any customized needs you have.

TECHNICAL

Translation workspace	1330 x 575 x 1020 mm
Rotation Workspace	330° x 120° x 270°
Payload (center of the workspace):	70 N (peak)/ 30 N (continuous)
Position resolution	0.016 mm
Rotation resolution	0.35 °
Device weight	12 kg

ELECTRICAL

Power supply	100-240 VAC 50/60Hz single phase
Consumption	Average consumption 200W
	Max consumption: 540W

SOFTWARE

Maximum translation stiffness	10000 N/m
Update Rate	1000 Hz

Information in this document is subject to change without notice.