

The Virtuose 6D TAO is a 6 active degrees-of-freedom haptic device with a passive analog finger gripper acting as a 7th DOF.

Thanks to its large workspace, interaction capacities and Ethernet or EtherCAT interface, it fit perfectly the industrial applications.

It is designed to easily control a remote robot, even with a high payload.

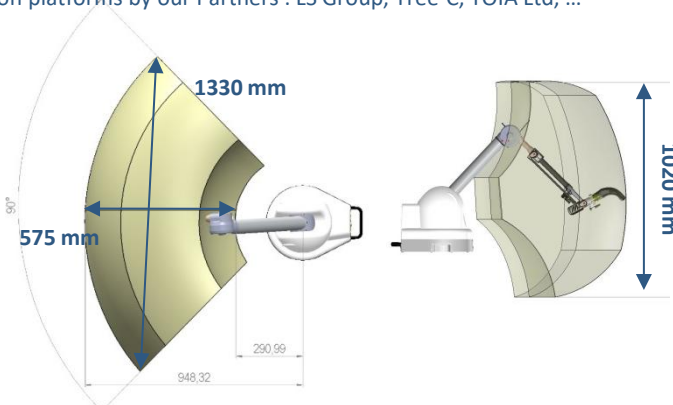


Teleoperation

Virtual Reality

6 ACTIVE DEGREES-OF-FREEDOM – PASSIVE GRIPPER

- ✓ Passive weight balancing
- ✓ Ethernet or Ethercat communication system
- ✓ Ergonomic telerobotic handle (end effector) designed for convenient and intuitive remote manipulation of your robot
- ✓ Button box on the forearm that extends the operator's actions without having to let go of the handle
- ✓ Reduced weight, allowing transportation without specific equipment
 - ✓ Plug & play with Haption TREX teleRobotics Extender, the generic controller compatible with many leading robot brands
 - ✓ Native 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, ...



TECHNICAL

Translation workspace	1330 x 575 x 1020 mm
Rotation Workspace	320° x 110° x 260°
Payload (center of the workspace):	70 N (peak)/ 30 N (continuous)
Rotation force: Peak, Continuous	5 Nm , 1.4 Nm
Position resolution	0.013 mm
Rotation resolution	0.0018 °
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
Maximum rotation stiffness	40 Nm/rad
Update Rate	1000 Hz

PRACTICAL AND VERSATILE

The ergonomic handle (end effector) is equipped with 4 user buttons, one can be used to implement a shift feature to extend the workspace, 1 LED indicator, and an analog finger trigger provides a signal 0 – 100%, is acting as a 7th DOF for instance to control a gripper on a robot.

An additional user button box on the forearm extends the operator's actions without having to let go of the handle, it provides several user buttons, selectors and a LED indicator.

All user push-buttons status & LED controls are available in the native software interface.

The end-effector is easy to remove and replace, with no tool, in order to customize and enhance the control for your application.

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

Information in this document is subject to change without notice.

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