



Current availability: robotic applications only

The HGlove is a hand haptic device, specifically designed for interactive manual work in Virtual Reality environments.

Thanks to its natural movement and transparency, it enables a fluid interaction with distant slave robots.

Its main applications are:

- tele-operation
- human gesture studies

Its future applications are:

- ergonomic studies
- accessibility studies
- tooling operations
- assembly simulation

Technical characteristics

The HGlove is the only force-feedback system of the market today, which offers the following characteristics:

- ✓ Force-feedback on 3 fingers, 9 degrees-of-freedom with 6 active degrees-of-freedom
- ✓ Device adaptable to different size of hand
- ✓ Maximum force 12N (5N continuous) per finger, i.e. high enough to simulate realistic collisions
- ✓ Reduced weight, usable for virtual sessions without other equipment
- ✓ Possibility to attach it to a Virtuose 6D
- ✓ Possibility to attach it to a Scale1 system
- ✓ Ethernet communication system
- ✓ Development kit (API) available for the major operating systems
- ✓ ROS interface

✓ **Next steps:**

- ✓ Extended compatibility with the major software applications on the market today, using dedicated plug-ins: ODE, 3DVIA Virtools™, Catia™ V5, Delmia™ V5, Solidworks, 3DExperience/V6, Siemens Tecnomatix, WorldViz Vizard, Classic Jack, etc... As for other Haption haptic devices
- ✓ Compatibility with tracking system such as ART, Vicon, Motion Analysis

