The Inca 6D is a haptic interface with 6 active degrees-of-freedom, specifically designed for large interaction in Virtual Reality environments. Thanks to its large workspace and high forces, it enables a scale one interaction with digital mock-up from the CAD or any other virtual element.

# Virtual Reality  # Industrial Simulation  # Medical Rehabilitation

### 6 Active Degrees-of-Freedom
- ✔ Passive weight balancing
- ✔ EtherCAT communication system
- ✔ Removable handle, equipped with programmable buttons and a proximity sensor connected to a dead-man function
- ✔ Dedicated plug-ins for: Unity3D™, 3DExperience™, Catia™ & Delmia™ V5, Solidworks™, Siemens Tecnomatix™ & Classic Jack™
- ✔ Drivers (binary and/or source code) available for: Python™, Worldviz Vizard™, ROS™, CHAI3D™, ODE™, Matlab Simulink™, Nvidia Flex™, ...

### Technical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translation force: Peak, Continuous</td>
<td>30 N / 10 N</td>
</tr>
<tr>
<td>Rotation force: Peak, Continuous</td>
<td>5 Nm / 1.5 Nm</td>
</tr>
<tr>
<td>Position resolution</td>
<td>0.02 mm</td>
</tr>
<tr>
<td>Rotation resolution</td>
<td>0.003 °</td>
</tr>
</tbody>
</table>

### Electrical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>100-240 VAC 50/60Hz single phase</td>
</tr>
<tr>
<td>Consumption</td>
<td>Less than 225W</td>
</tr>
<tr>
<td>Max consumption</td>
<td>1280W</td>
</tr>
</tbody>
</table>

The Inca’s architecture made with cables and motors turns it into a versatile haptic device, whose workspace is customizable.