The small but powerful Micro Sensor 1.8™ is a tiny motion tracking sensor that tracks in full 6DOF (Degrees-of-Freedom), capturing precise measurements of both position and orientation, and delivering tracking speeds up to 240Hz.

**SMALL MATTERS**
Weighing in at less than one gram, and boasting a slender size, at 1.8mm OD (Outer Diameter), Micro Sensor 1.8 is ideal for attaching to objects, such as surgical and dental instruments, and more. Micro Sensor delivers high-fidelity tracking that can measure the slightest movement of a skilled surgeon, or the robust fingers of a world-class guitarist. This tiny sensor can be inserted into a catheter, and is completely embeddable, while maintaining full 6DOF tracking.

**PERFORMANCE & SPECIFICATIONS**
Micro Sensor is compatible with several Polhemus tracking systems. Accuracy is specific to the Polhemus tracking system selected.

<table>
<thead>
<tr>
<th>System</th>
<th>Update Rate</th>
<th>Sensors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberty</td>
<td>240Hz</td>
<td>1-16</td>
</tr>
<tr>
<td>G4</td>
<td>120Hz</td>
<td>1-3</td>
</tr>
<tr>
<td>Fasttrak</td>
<td>Up to 120Hz</td>
<td>1-4</td>
</tr>
<tr>
<td>Patriot</td>
<td>60Hz</td>
<td>1-2</td>
</tr>
</tbody>
</table>

**FEATURES**
- ✓ Full 6DOF, Without Cameras
- ✓ Completely Embeddable
- ✓ No Line-of-Sight Needed
- ✓ Weighs Less Than One Gram
- ✓ Update Rates Up to 240 Hz
- ✓ Track Up to 16 Sensors Simultaneously
- ✓ Multiple Tracking System Options
PRODUCT DIMENSIONS

<table>
<thead>
<tr>
<th>CABLE DIMENSION</th>
<th>1.3mm Outer Diameter</th>
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</thead>
<tbody>
<tr>
<td>STANDARD CABLE LENGTH</td>
<td>15 ft.</td>
</tr>
<tr>
<td>ADDITIONAL CABLE LENGTH</td>
<td>Available upon request</td>
</tr>
<tr>
<td>DIMENSIONAL DRAWINGS</td>
<td>Available upon request</td>
</tr>
</tbody>
</table>

APPLICATIONS

- Healthcare Simulation
- Catheter Applications
- Image Guided Surgery
- Head Tracking
- Hand and Finger Tracking
- Biomechanics

GET IN TOUCH

Our technology powers applications in a wide variety of markets, catering to healthcare, military, and in countless research areas. Talk with our Motion Tracking Experts today.

POLHEMUS.COM

*Large metallic objects, such as desks or cabinets, located near the source or sensor, may adversely affect the performance of the system.

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Polhemus is a Good Manufacturing Practices (GMP) Contract Manufacturer under U.S. FDA Regulations. We are not a manufacturer of Medical Devices. Polhemus systems are not certified for medical or bio-medical use. Any references to medical or bio-medical use are examples of what medical companies have done with the products after they have obtained all necessary or appropriate medical certifications. The end user/OEM/VAR must comply with all pertinent FDA/CE regulations pertaining to the development and sale of medical devices and all other regulatory requirements.