EndoAssist — the robotic camera holder for laparoscopy

Technical Specification

EndoAssist is designed to hold a standard surgical laparoscope during minimal access surgery

User Interface
Transmitter: Infrared Head Tracker mounted on head-band
Receiver/Indicator: Mounting adjacent to surgeon’s camera monitor
Movements indicated: PAN – left, right; TILT - up, down; ZOOM – in, out
Transmitter range: 0.5 to 3.5m
Surgeon Footswitch: EndoAssist movement only when footswitch depressed

Range of Movements
EndoAssist has three axes:
  Pan (horizontal rotation) 350°
  Tilt (vertical pitch) from –45° (below horizon) to +90° (vertical)
  Zoom 300mm – the length of a laparoscope.

Endoscope Holding Arm
Detachable, may be sterilized by autoclaving
Mountings provided for 5mm and 10mm ‘scopes

Mechanical And Electrical Data

<table>
<thead>
<tr>
<th></th>
<th>Height (cm)</th>
<th>Width (cm)</th>
<th>Length (cm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>height boom lowered</td>
<td>147</td>
<td>51</td>
<td>169</td>
<td>135</td>
</tr>
<tr>
<td>height boom at maximum height</td>
<td>207</td>
<td>51</td>
<td>169</td>
<td>135</td>
</tr>
</tbody>
</table>

Dimensions for packing (boom detached)

<table>
<thead>
<tr>
<th></th>
<th>Height (cm)</th>
<th>Width (cm)</th>
<th>Length (cm)</th>
<th>Typical shipping weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>140</td>
<td>51</td>
<td>82</td>
<td>190</td>
</tr>
</tbody>
</table>

Electrical information
Consumption: 110-240V 50-60Hz 600W
Insulation: Class 1 type BF
Approvals Standard: IEC 60601-1

Regulatory Approvals
United States of America: FDA 510(k) K043284 Class II device
European Union: Medical Devices Directive (CE mark) Class I device
Tested for compliance with IEC601-1 (electromedical safety)
Tested for compliance with IEC601-1-1-2 (electromagnetic compatibility)

Prosurgics reserves the right to change the specifications of EndoAssist without notice, in line with our policy of continuous product improvement