**ICS Impulse® System**

**Interface**
USB 2.0 or 3.0 to PC

<table>
<thead>
<tr>
<th><strong>Performance Characteristics</strong></th>
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<tbody>
<tr>
<td><strong>Inputs</strong></td>
<td>Monocular (Right eye)</td>
</tr>
<tr>
<td><strong>Sampling Rate</strong></td>
<td>290 fps - Head Impulse, VOR, Video Record/Playback</td>
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<tr>
<td></td>
<td>173 fps - Gaze, Skew Deviation, Saccade, Dynamic, Repositioning, Caloric</td>
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<tr>
<td></td>
<td>60 fps - when Torsional or Vision Denied is selected</td>
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<tr>
<td><strong>Video Recording</strong></td>
<td>30, 60, or 120 Hz</td>
</tr>
<tr>
<td><strong>Eye Tracking</strong></td>
<td>100 x 100 pixels (Pupil Image) - Head Impulse, VOR, Monocular Video Frenzel</td>
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<tr>
<td></td>
<td>160 x 120 pixels (Eye Image) - Gaze, Skew Deviation, Saccade, Dynamic, Repositioning, Caloric, Monocular Video Frenzel</td>
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<tr>
<td></td>
<td>376 x 240 pixels (Full Image) - Monocular Video Frenzel</td>
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<tr>
<td></td>
<td>320 x 240 pixels (when Torsional is selected)</td>
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</table>

**Laser Saccade Stimulus**
Range ± 7.5° (max 15°)

**Video Recording**
30, 60 or 120 Hz

**Eye Tracking**
100 x 100 pixels (Pupil Image) - Head Impulse, VOR, Monocular Video Frenzel

<table>
<thead>
<tr>
<th><strong>Laser specifications</strong></th>
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<tbody>
<tr>
<td><strong>Wavelength</strong></td>
<td>Maximum 660 nm</td>
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<tr>
<td><strong>Output power</strong></td>
<td>Maximum 0.9 mW</td>
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**Dimensions**
- **Goggles**
  - Length: 7.25 in (18.4 cm)
  - Width: 0.5 in (1.3 cm) to 1.75 in (4.4 cm)
  - Height: 1.75 in (4.4 cm)
  - Weight: 2.1 oz (60 g)

**Calibration**
Goggles have 2 built-in calibration lasers for patient calibration

**Standards**
- EMC: IEC 60601-1-2, 3 ed.

**PC Requirements**
- **Operating System**: 64-bit Windows 10 Pro, Windows 8 Pro, Windows 7 Professional & Enterprise
- **CPU**: Intel i5 processor
- **Memory**: 64-bit (Windows 10, 8 or 7): 8 GB
- **Disk Space**: 300 GB
- **Connectors**: Up to four USB 2.0 or USB 3.0 for the goggles, synchronized room video, presentation remote, and external monitor, Optional VGA port to connect an external monitor
- **DVD Drive**: DVD RW
- **Monitor**: 1600 x 900 screen resolution
- **Components**: Mouse, keyboard
- **Internet access**: An Internet connection on the ICS Impulse computer is recommended during installation for installing synchronized room camera.

**Note:** Our recommended computer brands are Lenovo™, Dell™, Hewlett Packard™, and Sony™. Installation problems were experienced with Acer™.

**Presentation Remote**
Recommended
Logitech Wireless Presenter R400, Kensington Wireless Expert Presenter, or Targus Laser Presentation Remote

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**ICS Impulse®**

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