ICS Impulse®

Technical specifications:

ICS Impulse® System	
Interface	USB 2.0 or 3.0 to PC
Power Supply	Device is powered through USB: 5 V DC/500 mA ⎓

Performance Characteristics	
Inputs	Monocular (Right eye)
Sampling Rate	250 fps - **Head Impulse**, **VOR**, Video Record/Playback
	173 fps - **Gaze**, **Skew Deviation**, **Saccade**, **Dynamic**, **Repositioning**, **Caloric**
	60 fps - when **Torsional** or **Vision Denied** is selected
Video Recording	30 , 60 or 120 Hz
Eye Tracking	100 x 100 pixels (**Pupil Image**) - **Head Impulse**, **VOR**, **Monocular Video Frenzel**
	160 x 120 pixels (**Eye Image**) - **Gaze**, **Skew Deviation**, **Saccade**, **Dynamic**, **Repositioning**, **Caloric**, **Monocular Video Frenzel**
	376 x 240 pixels (**Full Image**) - **Monocular Video Frenzel**
	320 x 240 pixels (when **Torsional** is selected)
	Range: Horizontal ± 30°, Vertical ± 25°
3-Laser Saccade Stimulus	Range ± 7.5° (max 15°)
OTOsuite Vestibular Software	Windows Graphical User Interface; High Performance Analysis Software; Database Storage of Test Data; Sophisticated Patient and Test Data Management; Vision Denied for Testing in Complete Darkness

Laser specifications	
Wavelength	Maximum 660 nm
Output power	Maximum 0.9 mW

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	
Safety	Complies with UL 60601-1, 1.ed., IEC 60601-1, 2.ed.: + A1 + A2, 3.ed. + A1, CAN/CSA-22.2 No. 60601-1 (2008), IEC 62471, 1.ed., IEC 60825-1, 2.ed.
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 R/W
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*

GN Otometrics, Europe. +45 45 75 55 55. info-dk@gnotometrics.com
GN Otometrics, North America. 1-800-289-2150. sales@gnotometrics.com
www.otometrics.com   www.icsimpulse.com

otometrics