

Agilent 20x Surface Tracking Improvement for Laser-Based Mice

Technical Overview

20x Surface Tracking Improvement Description

20x Surface Tracking is a measure intended to quantify the improvement in surface tracking performance of a laser-based mouse versus an LED-based optical mouse.

A laser-based mouse was found to navigate on 20x greater surface smoothness than an LED-based optical mouse

Definitions

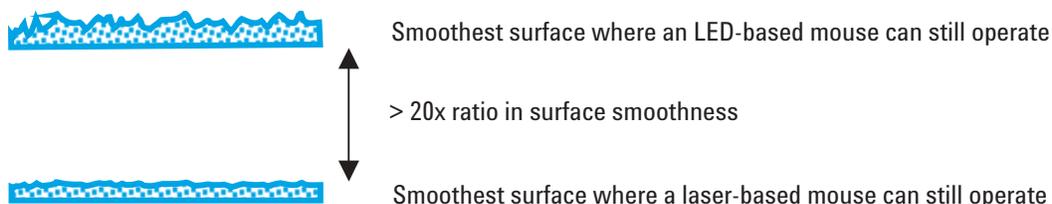
Surface Smoothness (or roughness):

The measure of a surface is defined as the peak-valley surface roughness of that surface. To eliminate measurement 'noise' or outliers, an average of 20 of the highest peak-valley points on the surface in question was used as the final measure of surface roughness. Monotonic surfaces were used for consistency in results.

Navigates:

The mouse in question shows no 'skips' or other major forms of jitter when navigating the surface.

Pictorial View:



Also, you can visually see the pixel output on the smooth surface from a laser-based mouse (image contrast seen) versus an LED-based optical mouse (no contrast seen).



LED Optical Mouse



Laser Mouse

With enhanced image contrast enabling a 20x improvement, the laser mouse can track on surfaces where the LED mouse cannot.



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