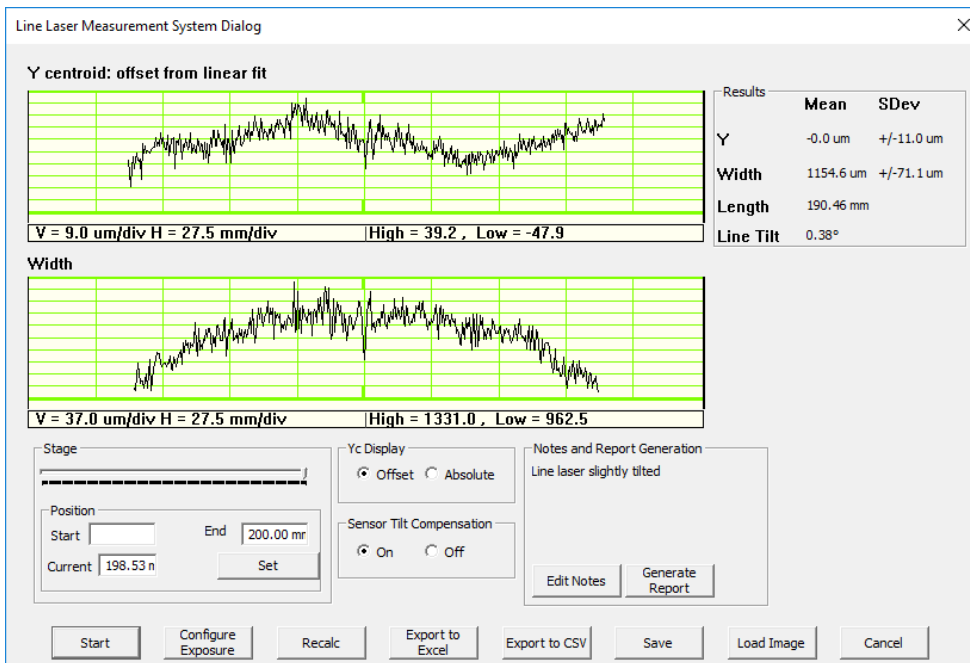


# Line Laser Profiling System

Direct measurement of line lasers up to 200 mm in length

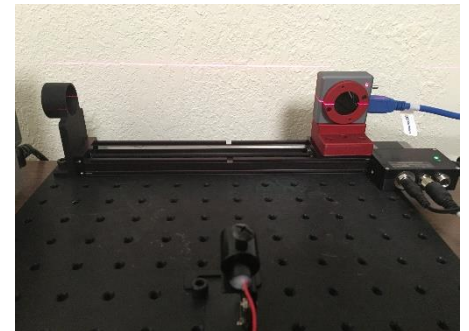
The Line Laser Profiling System (LLPS) is a complete solution for analyzing line lasers up to 200 mm in length and up to 8mm in width. By scanning DataRay's flagship WinCamD-LCM4 beam profiling camera across the length of the beam using our 200 mm linear stage, the full-featured free software will display a full image of the line laser intensity distribution along with a vertical centroid plot, line width plot, and several other useful measurements.



The line laser profiling system is supported by DataRay's full-featured, highly customizable, user-centric software which has no license fees, unlimited installations, and free software updates. The software controls the movement of the stage, automatically configures the optimal exposure time for the line laser scan, and provides an analysis of the line.

## SOFTWARE FEATURES

- Automatic exposure configuration
- Custom Start/End locations
- Automatic PDF report generation
- Residual sensor tilt compensation
- Export data to Excel, or CSV
- Save/Load line laser files (\*.l\_wcf)



## APPLICATIONS

- Calibration
  - Machine vision
  - 3D Scanning
  - Particle Counting
  - Survey Instruments
  - Bar code scanning

## SYSTEM FEATURES | LLPS-50 | LLPS-200

- Line laser length/width measurements
- Absolute vertical centroids
- Deviation of vertical centroids from a linear regression line
- Line tilt measured in degrees
- 50mm or 200 mm Translation Stage
- 190 to 1150 nm, CMOS detector
  - 4.2 MPixel, 2048 x 2048 pixels
  - 11.3 x 11.3 mm active area
  - 5.5 μm pixel size
- **HyperCal™** – Dynamic Noise and Baseline Correction software
- 2,500:1 Signal to RMS Noise
- 12-bit ADC
- Window-free sensors standard for no fringing
- Global shutter allowing for pulsed or CW measurements

Please contact [support@dataray.com](mailto:support@dataray.com) to discuss options for custom requirements.