

BEAMAGE

Software features

Capture Controls:

Start/Stop,
Subtract Background

Buffer Controls:

View Data Offline

Data:

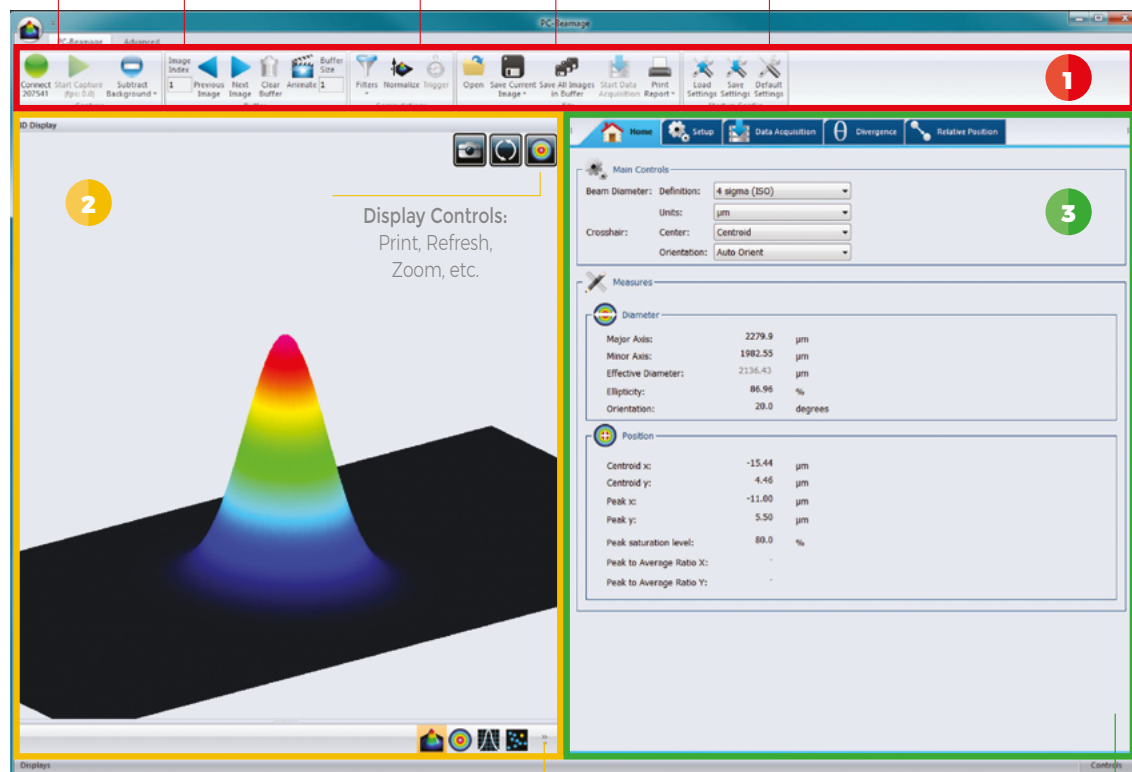
Computation

File Controls:

Save and Open Data

Startup Configuration:

Save and Load Settings



Displays:
3D, 2D, XY Graphs and Beam Tracking

Home, Setup and Acquisition Tabs:
Set your capture parameters and get the resulting measurements

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MAIN CONTROLS

The upper part of the software includes all the main controls in a ribbon format. These controls are grouped by family: Capture Controls, File Controls, Buffer Controls, M2 Controls and Data Computations. The last includes very useful filters and a normalization function.

2

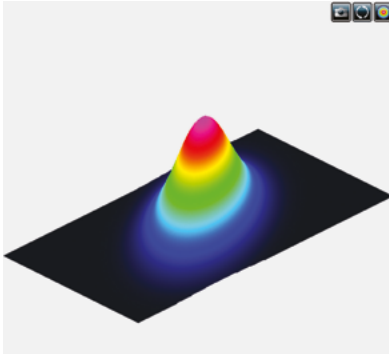
DISPLAYS

The left-hand side of the software is the display panel. Four displays are available: 3D, 2D, XY (cross-sectional graphs along the crosshairs) and Beam Tracking. The desired display is selected by clicking on the corresponding icon at the bottom of the panel. Print screen controls are available for the 3D, 2D and Beam Tracking displays. They allow the user to save an image of the current view in BMP format.

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HOME AND SETUP TABS

The right-hand side of the software contains the Home, Setup and Data Acquisition tabs. The Home tab allows the user to select the main controls for his measurements (Beam Diameter Definition, Crosshair Center and Orientation) and displays the resulting measurements below. The Setup tab allows the user to set the measurement parameters (Exposure Time, Image Orientation and Averaging, Active Area, etc.) and the Data Acquisition tab allows the user to save measurements with or without full images, to enter the Sampling Rates and a Total Duration for the Acquisition. More tabs with advanced controls are available when clicking on the Show/Hide Options button in the Computations panel.



3D DISPLAY

The 3D display shows the actual shape of the beam. It is possible to easily zoom, pan and rotate the image. The Reset button puts the data back in its original configuration. This display also features a Print Screen button to save the latest image in BMP format.



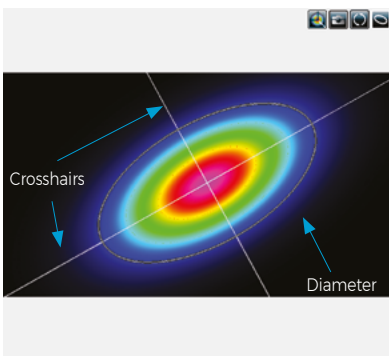
Print Screen



Reset View



Top View



2D DISPLAY

The 2D display features the crosshairs (set to the major and minor axis or along a specific angle) and the measured diameters of the beam. These diameters vary with the chosen definition (4-sigma, FWHM, 1/e², etc.) and the display can be turned ON or OFF. The Print Screen button allows to save a picture of the current screen in BMP format.



Select Active Area



Print Screen



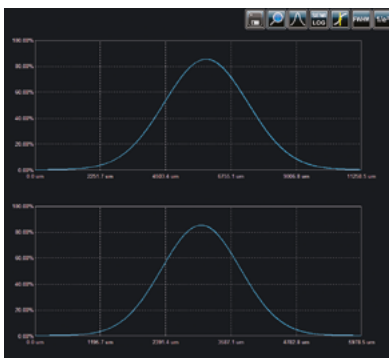
Reset View



Show/Hide Diameter



Toggle to grayscale



XY DISPLAY

The XY display plots cross-sectional graphs of the beam along the crosshairs. This display features many useful tools like zoom, cursor, and FWHM and 1/e² level bars. It is also possible to display the graphs in semi-log format to enhance the details in the low intensity parts of the beam.



Save Data



Zoom



Gaussian Fit



Semi-Log Graph



Show/Hide Cursor



Show/Hide FWHM



Show/Hide 1/e²

BEAM TRACKING DISPLAY

The Beam Tracking Display allows the user to visualize the variation of the beam's centroid position on the sensor. This display shows the latest calculated position as well as the previous ones, until the user resets the view. The display also shows the mean position of all computed values and gives information regarding position stability for both X and Y axes. This tool is great to monitor the beam pointing stability over time.

Save Data

Print Screen

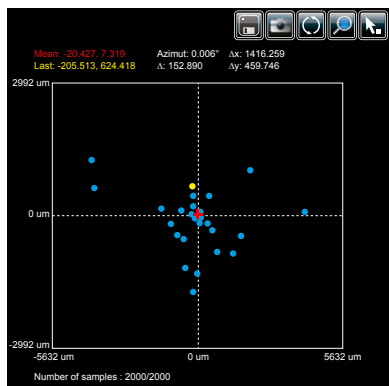
Reset View



Zoom



Pick Origin Point



Specifications are subject to change without notice
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