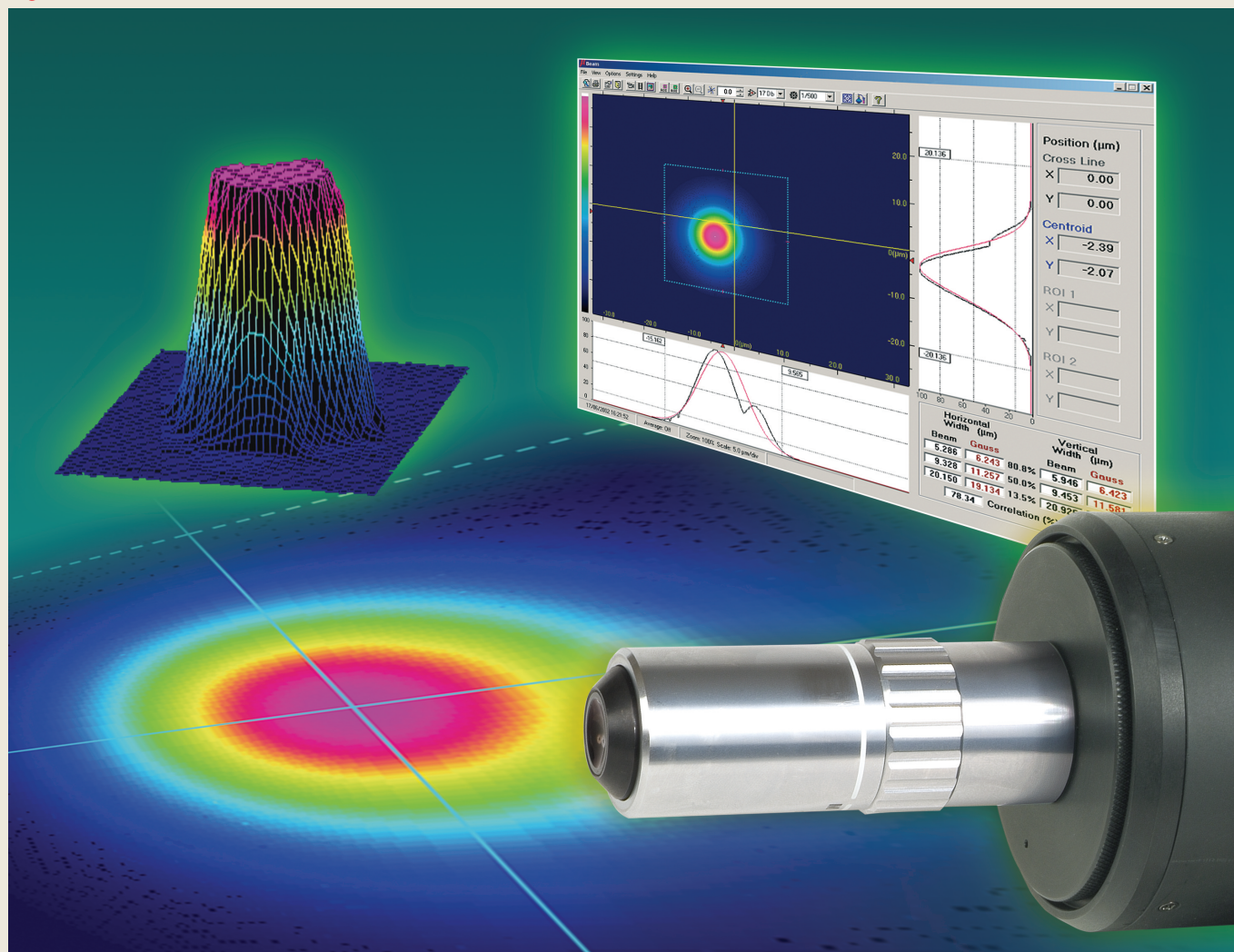


# $\mu$ Beam

*The Analyzer for  
Microscopic beams*



- Measures microscopic beams of less than 0.5µm (FWHM)
- Handles CW or pulses at low or high repetition rates
- Measure µW to Watts with included filter
- Long working distance (Objective to object)
- High resolution, high responsivity CCD readout device
- Wide spectral response range
- User friendly software
- Full Stand Alone instrument, or USB 2.0 interface with powerful software
- Excellent for industry and laboratory
- Optical zooming for fast beam finding
- Excellent for fast focusing



**DUMA OPTRONICS LTD.**



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E-mail: [sales@highlightoptics.com](mailto:sales@highlightoptics.com)



## Main Software Features

- Graphical presentation of a laser beam in 2D/3D.
- Three ROI's (Region of Interest) user-selectable.
- Centroid and beam width profile calculation to sub micron accuracy.
- User adjustable dynamic range by controlling the built-in electronic shutter speed and gain.
- Performs Test analysis
- Measures CW or pulsed beams.
- Real time beam measurements:
  - Beam size at 3 clip levels with Gaussian fit
  - Total intensity (sum profile) along XY axes
  - XY profiles selectable by anchor point & rotation
- Real time position measurements
- Data logging with detailed statistics
- Video with playback
- Save / View images, snapshot files
- Digital Zooming
- Full on line instructions and help



## Specifications

### Camera and Magnification

Camera type	CCD 1/4" format, with approx. 470,000 effective pixels
Spectral Response	350 - 1310nm (For IR range, IR corrected objective is required)
Magnification	Infinite conjugate objective and imaging lens. Objective magnification is x100; x50; x20; x10 user selectable. Built-in motorized zooming function.
Beam finding feature	Equipped with a zooming lens for observing large areas. Optical dezooming up to 1/25 from objective magnification.
Attenuation:	Built in NG10 filter (removable)

### Configuration

Tube type zooming microscope equipped with M6 mounting thread.

### Dimensions:

163.5mm(L) x 83mm diameter (without objective and base)

### Weights:

2.56Kg

### Lens Working Distance (W.D.):

6mm (for x100), 13mm (for x50), 20mm (for x20), 33.5mm (for x10), parfocal distance 95mm.

### USB 2.0 version:

USB 2.0 interface, Windows XP (Pentium IV 1.6 GHz)

### Stand Alone unit specifications:

Pentium III 800MHz and up, 64MB RAM  
 2.5" HDD 6GB, Windows XP  
 Color VGA card 1024x768 resolution, 2MB RAM  
 One PS2 mouse port, one PS2 keyboard port,  
 One LAN Ethernet port ,One serial port with RS232  
 One FDD 3.5" ,Two USB ports  
 100W power supply, AC input voltage: 90 VAC to 264 VAC  
 4 operating buttons on console for fast access to the following functions: Print, Log, Link, Exit  
 125(W) x 252(H) x 268 (D) mm  
 5.5Kg

### Stand Alone unit Dimensions

### Stand Alone unit Weights

### System Performance with Software:

Minimum measurable beam size	0.5 μm for x100 objective
Maximum frame rate	25Hz (CW lasers)



## Ordering Information

**Model uBeam-X- USB 2.0** : A complete system based on a measuring head with USB 2.0 interface and Windows XP application program, select type of objective magnification (X)

**X (Objective magnification)**: x100, or x50, or x20, or x10

**Model uBeam-X-SA** : A complete system based on a measuring head and stand alone control unit, select type of objective magnification (X)



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