



#### Feature

- ◆ Spectral Detection Range: 248~266nm
- ◆ Achievable minimal focal spot: 5μm
- ◆ Detection resolution threshold: 0.5μm
- ◆ Maximum Power Measurement: 1W
- ◆ Magnification: 10x

|                           |                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                     | CD0307UV-XD                                                                                                                                                                                                                                 |
| Detection Wavelength      | 248~266nm                                                                                                                                                                                                                                   |
| Beam Spot Detection Range | 5μm~0.5mm                                                                                                                                                                                                                                   |
| Camera Effective Area     | φ5mm                                                                                                                                                                                                                                        |
| Magnification             | 10x                                                                                                                                                                                                                                         |
| Resolution                | 0.5μm                                                                                                                                                                                                                                       |
| Exposure Time             | 0.05ms~500ms                                                                                                                                                                                                                                |
| Maximum Power             | 1W @ minimum spot size<br>0.5mJ @ minimum spot size                                                                                                                                                                                         |
| Minimum Sensitivity       | 1.52μW/cm <sup>2</sup> ①                                                                                                                                                                                                                    |
| Built-in Attenuation      | OD0/OD1/OD2/OD3/OD4 (select any 2, replaceable)                                                                                                                                                                                             |
| Interface                 | USB3.0                                                                                                                                                                                                                                      |
| Processing Frame Rate     | 5-10fps②                                                                                                                                                                                                                                    |
| External Trigger          | Supported                                                                                                                                                                                                                                   |
| Dimensions                | Refer to mechanical drawing                                                                                                                                                                                                                 |
| Beam Input Orientation    | Vertical/Horizontal                                                                                                                                                                                                                         |
| Defocus Range             | -1mm to +1.3mm                                                                                                                                                                                                                              |
| Operating Environment     | Temperature<15~25°C③, relative humidity<60%                                                                                                                                                                                                 |
| Operational Conditions    | Software environment: Windows 10/11, 64 bit, pre installed with MS Office or WPS,<br>Hardware configuration: ≥8GB memory, CPU clock speed ≥2.5G, core ≥4, recommended i5 or above equivalent models, optimal display resolution 1920 * 1080 |
| Weight                    | < 1.5Kg                                                                                                                                                                                                                                     |

Attention: ① Minimum effective photosensitivity is measured at 266nm wavelength with 100ms exposure time.

②Frame rate specification applies under 5-megapixel imaging conditions.

③Operating temperature range. For directional measurements, maintain ambient temperature at 15-25°C.

The screenshot displays the Position Stability software interface. The main window is divided into several sections:

- Position Stability (Top Left):** Contains input fields for Origin (X/μm, Y/μm), Count, Aperture, Target (Centroid), and a Start/Reset button. Below these are fields for Sampling Points (3600) and Lasts (01:00:00), with a Log button.
- Data Plot (Top Right):** A 2D scatter plot showing position data points. The axes are labeled X/μm and Y/μm. A red line indicates the centroid path.
- Profile Y (Bottom Left):** A 1D plot showing Amplitude versus distance(μm). The plot features a red curve representing the Gaussian fit and a blue line representing the experimental data. Key data points are labeled: -5026.315, 3189.2753, -5000, 2215.888, and 6246.398.
- Legend (Bottom Right):** A panel for selecting the LineY (red), Gaussian fit (blue), eA~2(2D) (green), 0.5(2D) (yellow), Average (black), and other options.
- File Log (Bottom):** A section for logging data, including Log Interval (1.00 s), Log Lasts (24.00 h), Log Path, File Name, Log Data, Save Picture, Log BeamData, Naming Auto (by number), and a Start button.