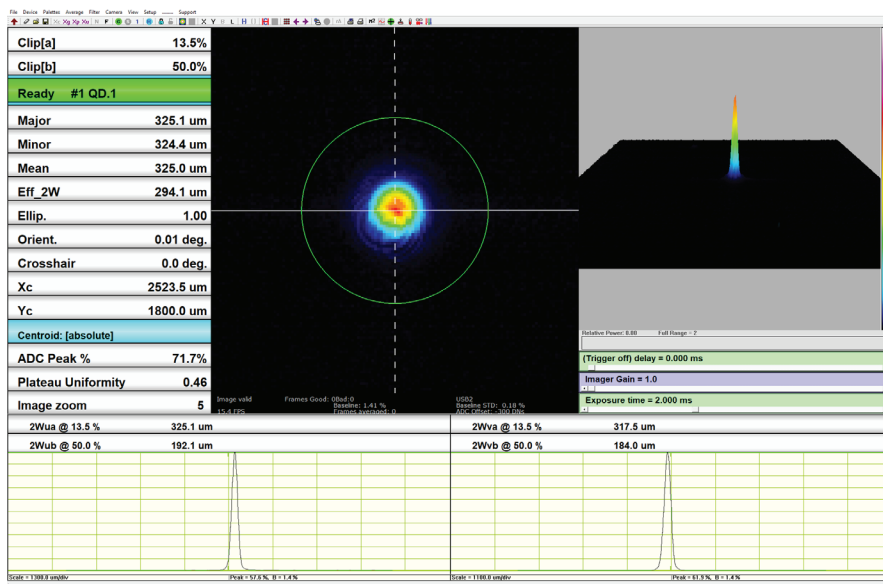




## WinCamD-QD SWIR/eSWIR Quantum Dot Beam Profiler

High resolution beam profiling at 1550 nm

The WinCamD-QD series uses colloidal quantum dot sensors to provide high quality beam profiling for visible, SWIR, and eSWIR sources. With 15  $\mu\text{m}$  pixels, a wavelength range as wide as 350-2000 nm, and a global shutter, the WinCamD-QD series offers unparalleled beam profiling capabilities. With a signal-to-noise ratio that exceeds 2100:1, the WinCamD-QD series is capable of ISO 11146 compliant beam measurements. The state-of-the-art colloidal quantum dot sensor features very high sensitivity with a global shutter for pulsed beam profiling.



The WinCamD-QD series is supported by DataRay's full-featured, highly customizable, user-centric software which has no license fees, unlimited installations, and free software updates. The DataRay software allows you to interface with external programs, log data, conduct fully automated  $M^2$  measurements using our M2DU translation stages, and much more, all included without any additional charges. For higher power lasers, DataRay offers a range of sampling, absorbing, and reflecting attenuation options to assure your beam is adequately attenuated before profiling.

### System Features

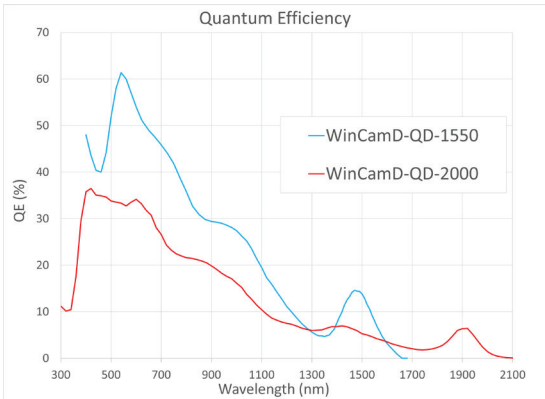
- Colloidal quantum dot sensor, optimized for SWIR and eSWIR
- SWIR (400-1700 nm) and eSWIR (350-2000 nm) sensors available
- Multiple resolution options, up to 1920 x 1080. See table on next page for more information.
- 15  $\mu\text{m}$  pixels
- 14-bit ADC
- Global shutter supports pulsed and CW beams
- >2100:1 dynamic range (33dB opt./66dB elec.)
- In-firmware NUC
- Parallel capture on multiple cameras
- $M^2$  measurements
- GigE or USB 3.0 with 3m screw locking cable
- GigE Vision/USB3 Vision support



**WinCamD-QD**  
2.4 x 2.4 x 3.9 in  
66 x 66 x 99 mm

Applications

- 1550 nm laser profiling
- Field service of 1550 nm laser and laser-based systems
- Optical assembly and instrument alignment
- Telecommunications fiber characterization
- Beam wander and logging
- High divergence diode characterization
- M<sup>2</sup> measurement with available M2DU stage



| WinCamD-QD Model | Wavelength  | Pixel Size | Resolution  | Measurement Area | Included Filters   |
|------------------|-------------|------------|-------------|------------------|--|
| S-WCD-QD-1550    | 400-1700 nm | 15 μm      | 640 x 512   | 9.6 x 7.7 mm     | Includes NDL to C-mount adapter with ND-1, ND-2, and ND-4 filters. |
| S-WCD-QD-1550-L  | 400-1700nm  | 15 μm      | 1280 x 1024 | 19.2 x 15.4 mm   | Includes NDL mount NDL-1, NDL-2, and NDL-4 filters.                |
| S-WCD-QD-1550-XL | 400-1700 nm | 15 μm      | 1920 x 1080 | 28.8 x 16.2 mm   | Includes NDL mount NDL-1, NDL-2, and NDL-4 filters.                |
| S-WCD-QD-2000    | 350-2000 nm | 15 μm      | 640 x 512   | 9.6 x 7.7 mm     | Includes NDL to C-mount adapter with ND-1, ND-2, and ND-4          |
| S-WCD-QD-2000-L  | 350-2000 nm | 15 μm      | 1280 x 1024 | 19.2 x 15.4 mm   | Includes NDL mount NDL-1, NDL-2, and NDL-4 filters.                |
| S-WCD-QD-2000-XL | 350-2000 nm | 15 μm      | 1920 x 1080 | 28.8 x 16.2 mm   | Includes NDL mount NDL-1, NDL-2, and NDL-4 filters.                |

