

Laser diode	<ul style="list-style-type: none">- Wavelength: 658 nm, optical power: 100 mW, adjustableOptional: other wavelengths (e.g. 785 nm)
Detector	<ul style="list-style-type: none">- Photomultiplier tube, dark count rate < 300 Hzquantum efficiency 5-7%, count sensitivity 1.5×10^5 Hz/pW- For single photon counting- Scatteing angle 144°Optional: Avalanche photodiode, higher sensitivity for $\lambda > 660$ nm
Correlator	<ul style="list-style-type: none">- Multi-tau architecture correlator to cover a wide sample time range- Sample time from 400 ns - 30 s- Total 208 channels, quasi logarithmic channel spacing
Sensitivity	<ul style="list-style-type: none">- Sample concentration with standard laser (658 nm)- Minimum 0.1 mg/ml at 0.5 μl for ~ 50 kDa proteins and 0.3 mg/ml for ~ 14 kDa proteins (e.g. for lysozyme)- Maximum > 120 mg/ml
Imaging system	<ul style="list-style-type: none">- Built-in microscope5 magnification steps: 0.63, 1.25, 2.0, 3.2, 6.4Filed of view: 10.5x7.6, 5.2x2.9, 3.3x2.5, 2.0x1.5, 1.0x0.75 mmResolution: 25 μm, 13 μm, 8 μm, 5 μm, 2.5 μm per pixel
Camera	<ul style="list-style-type: none">- CCD color camera 1600 x 1200 pixelsOptional: other resolutions
Illumination	<ul style="list-style-type: none">- Bright light integrated LEDOptional: UV by external light sourceOptional: colour light source
Temperature control	<ul style="list-style-type: none">- Built-in temperature control- Range 4 - 40°C (at ambient temperature 20°C)
Sample properties	<ul style="list-style-type: none">- Minimum droplet volume about 0.5 μL- Particle sizes from 1nm to approx. 6 μm
Sample container	<ul style="list-style-type: none">- Plates in SBS formatSitting drop: e. g. MRC 96 well, Maxiplate 48 well,Hanging drop: CellstarOthers: Costar 3590, LCP plate- Terasaki microbatch plates (with adapter)Optional: customized sample holder
Hardware	<ul style="list-style-type: none">- Table top system 650 mm x 270 mm x 450 mm (LxWxH)- Weight: approx. 20 kg- Power consumption: 115 to 230 V, 100 W- Mini PC attached to monitor (22 inch)
Software features	<ul style="list-style-type: none">- SpectroLight 600 software runs on Linux- Fully automated plates scanning with unique drop finding algorithm for DLS- Integrated LIMS database for storage and retrieval of images and DLS data- Control of light source parameters- Live display of camera imagegraphical histogramming software-Radius distribution 2D and 3D- Autopilot for scheduling of your individual measurement programOptional: connection to external data baseOptional: connection to plate handling system