

Laser diode	<div><div>✓ Wavelength: 660 nm, optical power: 120 mW, adjustable</div><div><input type="checkbox"/> other wavelengths (e.g. 785 nm)</div></div>
Detector	<div><div>✓ Photomultiplier tube, dark count rate &lt; 300 Hz quantum efficiency 5-7%, count sensitivity 1.5*10<sup>5</sup> Hz/pW</div><div>✓ For single photon counting</div><div>✓ Scattering angle 142°</div><div><input type="checkbox"/> Avalanche photodiode, higher sensitivity for λ &gt; 660 nm (optional)</div></div>
Correlator	<div><div>✓ Multi-tau architecture correlator to cover a wide sample time range</div><div>✓ Sample time from 400 ns to 30 s</div><div>✓ Total 208 channels, quasi logarithmic channel spacing</div></div>
Sensitivity	<div><div>✓ Sample concentration with standard laser (660 nm)</div><div>✓ Minimum 0.1 mg/ml for ~30 kDa proteins and 0.3 mg/ml for ~14 kDa proteins (e.g. for lysozyme)</div><div>✓ Maximum &gt; 100 mg/ml</div></div>
Imaging system	<div><div>✓ Built-in microscope 5 magnification steps: 0.63, 1.25, 2.0, 3.2, 6.4 Field of view: 10.5x7.6, 5.2x2.9, 3.3x2.5, 2.0x1.5, 1.0x0.75 mm Resolution: 25 μm, 13 μm, 8 μm, 5 μm, 2.5 μm per pixel</div><div>✓ CCD colour camera 1600 x 1200 pixels</div><div><input type="checkbox"/> other resolutions (optional)</div></div>
Illumination	<div><div>✓ Bright light integrated LED</div><div><input type="checkbox"/> UV by external light source (optional)</div><div><input type="checkbox"/> colour light source (optional)</div></div>
Temperature control	<div><div>✓ Built-in temperature control</div><div>✓ Range 10 to 45°C (at ambient temperature 20°C)</div></div>
Sample properties	<div><div>✓ Minimum droplet volume about 20 nl</div><div>✓ Particle sizes from 1 nm to approx. 6 μm</div></div>
Sample container	<div><div>✓ Plates in SBS format Sitting drop: e. g. MRC 96 well, Maxiplate 48 well, Hanging drop: Cellstar Others: Costar 3590, LCP plate</div><div>✓ Terasaki microbatch plates (with adapter)</div><div><input type="checkbox"/> customized sample holder (optional)</div></div>
Hardware	<div><div>✓ Table top system 650 mm x 270 mm x 450 mm (LxWxH)</div><div>✓ Weight: approx. 26 kg</div><div>✓ Power consumption: 115 to 230 V, 100 W</div><div>✓ Mini PC attached to monitor (22 inch)</div></div>
Software features	<div><div>✓ SpectroLight 600 software "SpectroCrystal" runs on Linux</div><div>✓ Fully automated plate scanning with unique drop finding algorithm for DLS</div><div>✓ Integrated LIMS database for storage and retrieval of images and DLS data</div><div>✓ Multi workstation remote data management software "Remote LIMS"</div><div>✓ Control of light source parameters</div><div>✓ Live display of camera image</div><div>✓ Graphical histogramming software</div><div>✓ Radius distribution 2D and 3D</div><div>✓ Autopilot for scheduling of your individual measurement program</div><div>✓ Automated laser intensity adjustment</div><div>✓ Surface interaction (B22) and diffusion interaction parameter (k<sub>D</sub>) determination</div><div>✓ Individual DLS scan evaluation and management</div><div>✓ Scattered Light weighted, Mass weighted and Number weighted statistics</div><div>✓ Autoscoring and userscoring options for DLS data</div><div>✓ Userscoring options for imaging data</div><div>✓ Multiple data export functions including customizable reporting options</div><div><input type="checkbox"/> connection to external data base (optional)</div><div><input type="checkbox"/> connection to plate handling system (optional)</div></div>