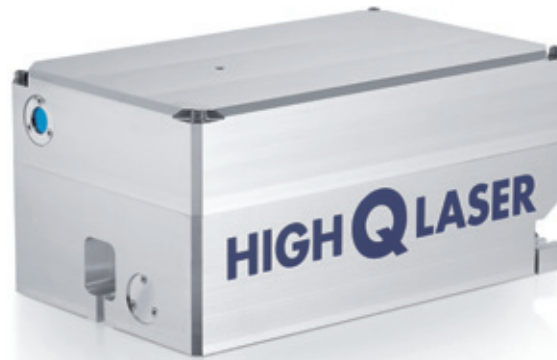


## femtoTRAIN™ UC Industrial

Ultra Compact, all-diode-pumped, solid state femtosecond oscillator



| femtoTRAIN™                               | UC-1035-200  |
|---|--|
| Wavelength <sup>1)</sup>                  | 1035 nm +/- 8 nm   |
| Pulse width (FWHM), typical <sup>2)</sup> | < 200 fs   |
| Average output power                      | > 200 mW   |
| Pulse repetition rate                     | 63 MHz +/- 1 MHz   |
| Laser material <sup>3)</sup>              | Ytterbium  |
| Power stability, typical                  | < 1% RMS (12h)   |
| Beam quality                              | TEM <sub>00</sub> ; M <sup>2</sup> ≤ 1.1   |
| Polarization                              | horizontal / vertical (TBD)  |
| Power supply                              | 100 VAC – 240 VAC, 50/60 Hz, 100W (not including Chiller)                                    |
| Laser head size                           | 122 x 202 x 96 mm <sup>3</sup> (l x w x h)   |
| Beam height                               | 76.2 mm (3"), nominal  |
| Controller size                           | 470 x 200 x 88 mm <sup>3</sup> (l x w x h)   |
| Chiller                                   | 386 x 277 x 203 mm <sup>3</sup> (l x w x h), 100 - 240 VAC, 50/60 Hz, < 625 W (incl. heater) |
| Operation ambient temperature             | 18°C to 30°C   |

All specifications are typical data and subject to change without notice in order to provide the best product possible.

1) Other wavelengths on request (between 1030 nm and 1065 nm)

2) Other pulse widths on request

3) Different laser materials on request

4) Ask for customized system packaging

| Main Features  | Applications  | Please Inquire About  |
|--|---|---|
| <ul style="list-style-type: none"> <li>Passive self-starting modelocking by saturable Bragg reflectors</li> <li>High temporal and spatial stability</li> <li>Ultra-compact and modular set-up</li> <li>Sealed-off technology</li> <li>Air-cooled closed-loop chiller (included)</li> <li>USB Software remote control</li> <li>FEA optimised industrial mirror mounts</li> <li>De-rated pump diodes for long lifetime</li> <li>High MTBF &amp; up-time</li> </ul> | <ul style="list-style-type: none"> <li>Seeding</li> <li>THz Generation</li> <li>OCT in conjunction with supercontinuum fibre</li> <li>ps and fs Spectroscopy</li> <li>Non-Linear Optics</li> <li>Single Molecule Detection</li> <li>Multi-Photon-Microscopy</li> <li>THz Imaging</li> <li>FLIM</li> </ul> | <ul style="list-style-type: none"> <li>Frequency conversion (SHG, THG, FHG)</li> <li>Multiple beam exits</li> <li>Pulse Picker (AOM / EOM)</li> <li>Continuum generation / pulse compression</li> <li>Air cooled version</li> <li>Nd:Glass, Yb:Glass</li> <li>Electrical laser safety shutter &amp; electrical attenuator</li> <li>Application laboratory for sample testing</li> </ul> |

