

proven.

The lab standard for all atoms and ions



DL pro

Tunable external cavity diode laser for cooling and controlling all atoms and ions

- Intelligent locking to absorption lines or HighFinesse wavelength meters
- Convenient local and remote operation (with DLC pro)
- Efficient atom cooling with narrow linewidth down to 0.6 kHz free running
- Linewidth below 1 Hz possible with lock to external reference cavity on selected wavelengths

learn more...



TOPTICA

www.toptica.com/proven

DL pro



DANGER – AVOID EXPOSING EYES AND SKIN TO THE LASER BEAM, INCLUDING ANY STRAY LASER LIGHT. CLASS 3B LASER PRODUCT, EN 60825-1:2014

Specifications

Wavelength coverage [nm]	369 .. 519 * , 628 .. 1770 *
Typical power range	10 .. 300 mW
Typical coarse tuning range	2 .. 100 nm
Typical mode-hop free tuning range	≥ 20 GHz
Typical instantaneous linewidth	0.6 .. 90 kHz
Typical output beam polarization	linear, > 100:1
ASE background, typ.	< -40 dB
Optical isolation	optional
Fiber coupling efficiency**: min (typ.)	55 (65) %
Dimensions laser head (H x W x D)	90x90x240 / 300 mm ³ ***
Environmental conditions	15 - 30 °C (operating), 0 - 40 °C (storage and transport), non condensing

Other Models

DL pro HP	DL pro F	DL pro SMC	DL pro BFY
Power up to 400 mW	Faster lock	Long-term active mode stability	Long-term passive mode stability

* Spectral coverage with gaps

** With TOPTICA's FiberDock, efficiencies are possibly lower with strong ellipticity or short wavelengths

*** The standard length is D=240 mm. If needed a housing of D=300 mm is automatically used.

