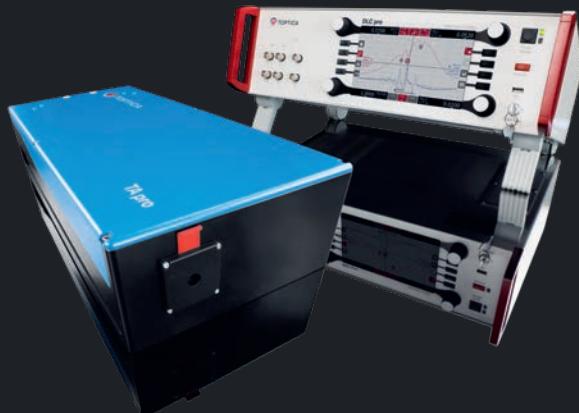
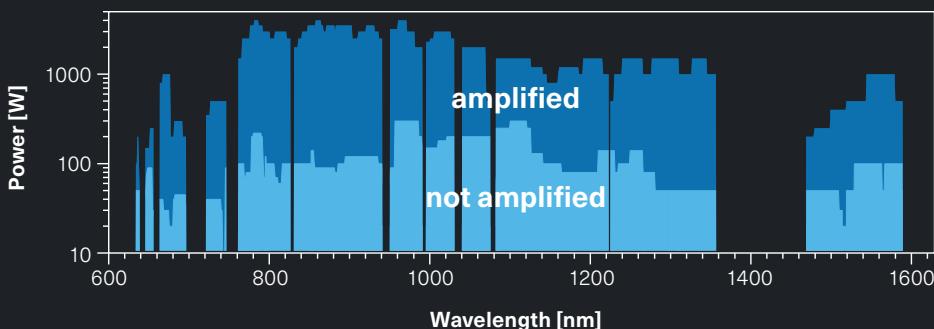


amplified.



632 .. 1590 nm, up to 4 W

Amplified Tunable Laser Systems



learn more...



TOPTICA

www.toptica.com/amplified

TA pro



DANGER – VISIBLE AND INVISIBLE LASER RADIATION, AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION, CLASS 4 LASER PRODUCT, EN60825-1:2014

| Specifications | | | | | | | | |
|---------------------------------|--|------------------------------|-----------|-----------|-----------|-----------|--------------|--------------|
| | Customized | TopSeller (not configurable) | | | | | | |
| | DLC TA pro | 670 | 765 | 780 | 795 | 850 | DFB 780 | DFB 852 |
| Wavelength range [nm] | 632 - 1590* | 665 - 673 | 760 - 785 | 770 - 795 | 775 - 805 | 845 - 870 | 779 - 780 | 851 - 852 |
| Max. output power [W] | 4 | 1 | 2 | 4 | 3 | 3 | 4 | 3 |
| Tuning | Typical coarse tuning range 10 - 50 nm, mode-hop free tuning 20 - 50 GHz | | | | | | | |
| Typical instantaneous linewidth | 90 kHz | 100 kHz | 0.5 kHz | 0.6 kHz | 0.6 kHz | 5 kHz | 2 MHz (5 µs) | 2 MHz (5 µs) |
| Fiber coupling | Output and probe beam: Optional | | | | | | | |
| Maximum TA current | 5 A (with DLC TA pro), 10 A (with DLC TA pro HP) | | | | | | | |
| Power consumption | typ. 70 W | | | | | | | |

Specifications are subject to change without further notice

*Spectral coverage with gaps

Key Features

- Wavelengths between 632 nm and 1590 nm
- High power up to 4W
- Low noise and drift, narrow linewidth
- Stable and reliable with pro technology
- Convenient touch, knob and remote control with DLC pro

Options

- Output and probe fiber coupling
- Narrow linewidth and motorization
- High power option with max. 10A amplifier driving current
- Options and modules for stabilizing the laser frequency and for linewidth narrowing (e.g. intra-cavity EOM option "F")
- Rack-Integrated version available with AutoAlign: MTA pro

Ultra-stable mirror mount



Optical isolator 60 dB

Tapered amplifier with optics and heat management

DL pro as master oscillator

Optical isolator 60 dB