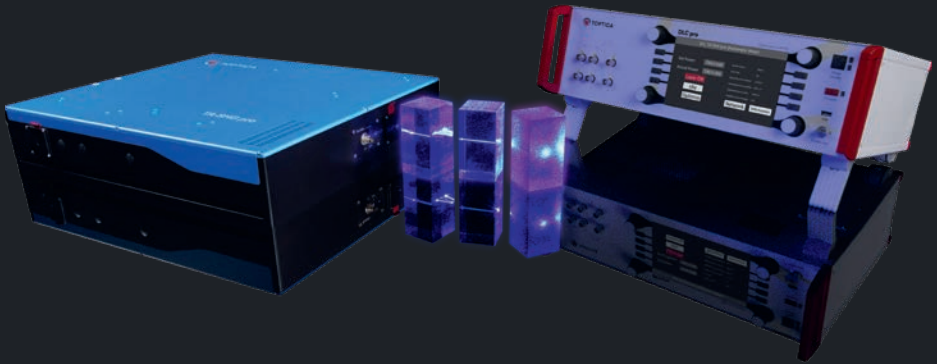


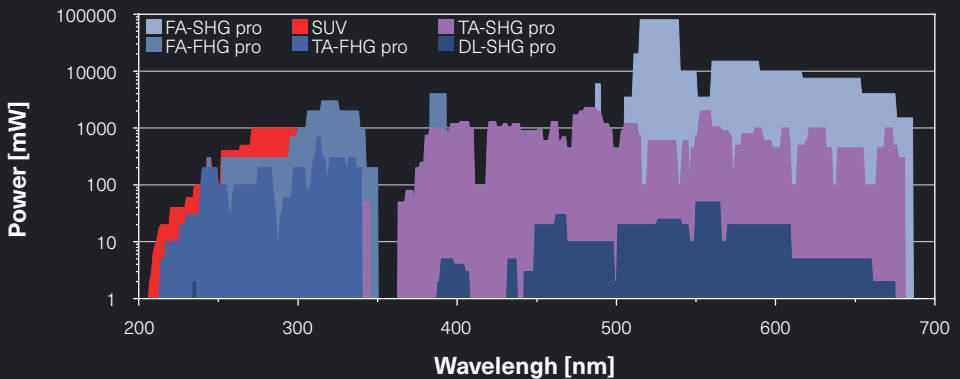
harmonic²

World leading efficiency ranging from deep UV to near infrared



205 .. 685 nm, up to 80 W

Frequency Converted Tunable Diode Laser



learn more...



www.toptica.com/harmonic

TA-SHG pro & TA-FHG 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							
System examples*	DLC TA-SHG pro	DLC FA-SHG pro	Yb Cooling	Rb Rydberg	Sr+ Cooling	Lattice	Holography
Wavelength range [nm]	330 .. 780	330 .. 780	399	480	422	532	630
Output power [mW]	Up to 2500	Up to 80,000	1200	2000	1000	80,000	800
Coarse tuning [nm]	Up to 30	Up to 10	3	17	4	4	26
System examples*	DLC TA-FHG pro	DLC FA-FHG pro	ARPES	2x Lyman alpha	Thorium Clock	Yb Rydberg	Sr Rydberg
Wavelength range [nm]	205 .. 390	244 .. 390	206	243 & 244	297	302	317
Output power [mW]	Up to 900	Up to 3000	1	200	500	600	400
Coarse tuning [nm]	Up to 10	Up to 5	0.5	1	1	1.5	3
Continuous scan range	> 20 GHz (up to 50 GHz possible)						
Typical linewidth (5 μs)	20 .. 120 kHz (TA-SHG), 40 .. 250 kHz (TA-FHG) Down to Hz level with FALC pro and external reference or Toptica Clock Laser Systems						
Fiber coupling	Available for ≥ 369 nm						

* See website for additional Wavelengths

Key Features



Fully integrated system



Convenient remote operation



Superior passive stability



19" rack integration option

Options

- Automatic Alignment
- Fibre coupled output
- SUV - Unprecedented deep UV power and lifetime
- Fiber Amplifier for high powers
- Options and modules for stabilizing the laser frequency and linewidth narrowing
- Rack integrated version available for TA-SHG pro systems
- Standalone and lower power versions available