

miracle.

Fully automated economical MIR laser



Mid Infrared Tunable Laser

High performance CW OPO

- Optimized for vibrational spectroscopy in the C-H stretch region
- Narrow linewidth and fine tuning
- Hands-free, digital control

learn more...



www.toptica.com/miracle

TOPO smart

Mid Infrared Tunable Laser



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

Specifications				
	TOPO smart 2700	TOPO smart 3300	TOPO smart customized	TOPO smart WT
Coarse tuning range	2580 – 2830 nm (3875 – 3535 cm^{-1})	3100 – 3500 nm (3230 – 2855 cm^{-1})	Approx. 300 cm^{-1} around custom center frequency	2600 – 3500 nm (3850 - 2850 cm^{-1})
Mode hop free tuning range	> 15 GHz (0.5 cm^{-1})			
Linewidth	< 4 MHz			< 100 kHz
Output power	> 30 mW			
Beam quality factor M^2	< 2			
Control interfaces	DLC pro touchscreen, PC software, Ethernet, USB, analog remote control			
Dimensions laser head (H x W x D)	90 mm x 192 mm x 470 mm (Wide tuning option needs additional seed laser: 90 mm x 150 mm x 370 mm)			
Dimensions control unit (H x W x D)	154 mm x 450 mm x 348 mm			
Power supply	100 .. 120 V / 220 .. 240 V AC, 50 .. 60 Hz (auto detect)			
Power consumption	typ. 70 W			
PC interface	Ethernet			
Environment temperature	15 - 30 °C (operating), 0 - 40 °C (storage and transport)			
Environment humidity	Non-condensing			

