

Peacock XT-532 MW

Integrated, High-Repetition Rate, Tunable Laser-OPO System



The Peacock XT-532 MW extends our all-integrated Laser-OPO series by high-repetition rate devices. The diode pumped solid state (DPSS) laser source is available from 50 Hz to 200 Hz, providing high average power with high energy nanosecond pulses with continuous NIR to Mid-IR wavelength coverage. Our new and unique automated tuning offers fast shot-to-shot wavelength switching across the entire tuning range. Energy measurement and attenuation as well as fiber-coupling capability are integral parts of the Peacock XT series. Our robust all-solid-state technology provides intuitive features and interfaces that allow for easy OEM machine integration as well as for convenient usage in research labs. The rugged and turn-key design, paired with an intuitive GUI and programming interface, ensure convenient usability and best reliability.

The Peacock XT consists a 532 nm pumped Laser-OPO package, seamlessly integrating Quantel's Merion MW DPSS laser series. Nanosecond pulses with a peak energy of up to 85 mJ in the 660 nm to 2650 nm wavelength range at 50 Hz, 100 Hz or 200 Hz are available.

The PEACOCK series tunable Lasers are joint products of **GWU-Lasertechnik** and **Quantel Lasers by Lumibird**, combining decades of experience in Lasers and nonlinear optics.

Peacock XT-532 MW Specification

	Peacock XT-532					
	MW7- 100/BB	MW7- 200/BB	MW9- 50/BB	MW7- 100/MB	MW7- 200/MB	MW9- 50/MB
Repetition Rate [Hz]	100	200	50	100	200	50
Output Energy [mJ] (1)	42	22	85	40	21	80
Beam Diameter at Exit Aperture [mm]	< 7		< 9.5	<	< 7	
Tuning Range Signal Wave [nm]	680 - 980 660 - 2650					
Tuning Range Idler Wave [nm]	1150 - 2200					
Linewidth at 725 nm (2)	< 3 nm			< 12 cm ⁻¹		
Divergence (hor. / vert.)(3)	< 10 mrad			< 10 mrad / < 2 mrad		
OPO Pulse Width	< 7 ns					

Features and Benefits

All integrated Laser-OPO platform

Fast, shot-to-shot wavelength tuning

Real-time OPO energy signals

Fully automated for hands-free operation

Fiber-delivery or freespace output

Integrated wavelength measurement

Soft pumping scheme for high reliability and long lifetime

Applications

Medical & Biotechnology Photoacoustic Imaging Spectroscopy Remote Sensing LIDAR

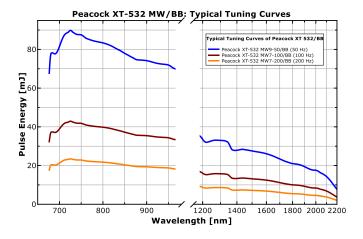
Notes

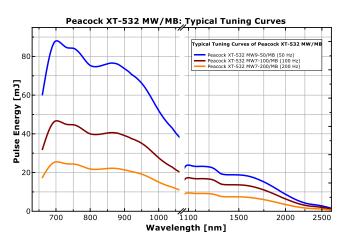
All specifications are subject to change without notice. The Peacock is a joint product of GWU-Lasertechnik and Quantel by Lumibird.



Peacock XT-532 MW Performance

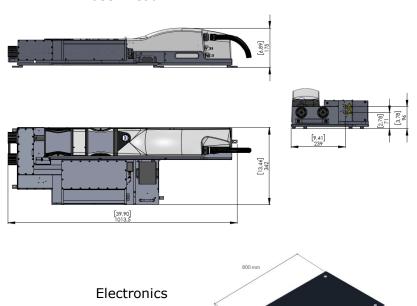
Typical performance, not a guaranteed or warranted specification





Peacock XT-532 MW Dimensions





Mechanical + Utilities

Size OPO body (L x W x H): 950 x 342 x 175 mm³

For dimensions with feet, and other protruding elements please refer to the dimensional drawing

Electric requirements Power supply: 200-240 VAC, 50/60 Hz, 1600 VA. Cooling group: 200-240 VAC, 50/60 Hz, 2200 VA.

Cooling: water to water

Cable Length: 3 m

Diode Warranty: 5 billion shots

www.gwu-lasertechnik.de

GWU-Lasertechnik Vertriebsges. mbH

