

Lasers

We have experience in the production and technical support of the lasers listed below. We offer these lasers with power supplies and, if necessary, cooling systems as well as spare parts (optics, electronics, modules). Some of the lasers are manufactured completely or partially in Jena, some of them are manufactured by our partners worldwide. The detailed technical specifications as well as the prices can be obtained by request.

wavelength (range), nm	laser type	properties	notes
210-240	Ti:Sapphire tunable	pumped with Nd:YAG or Nd:YLF energy conversion up to 25% pulse duration 8-30ns frequency up to 50Hz	
213+266+355+532+1064	lamp pumped Nd:YAG	3mJ@213nm+15mJ@266nm+15mJ@355nm +35mJ@532nm+75mJ@1064nm pulse duration 70-80ps frequency up to 15Hz	
213+266+355+532+1064	lamp pumped Nd:YAG	5mJ@213nm+35mJ@266nm+30mJ@355nm +125mJ@532nm+200mJ@1064nm pulse duration 7-9ns frequency up to 10Hz	higher energy is possible by request
230-325	Ti:Sapphire tunable	pumped with Nd:YAG or Nd:YLF energy conversion up to 25% pulse duration 8-30ns frequency up to 50Hz	
266+355+532+1064	DPSS cw Nd:YAG	5-200mW, M2<1.2 single frequency (coherence length over 100m) linearly polarized	
266	lamp pumped Nd:YAG	15mJ@266nm+35mJ@532nm +75mJ@1064nm pulse duration 70-80ps frequency up to 15Hz	
266+532+1064	lamp pumped Nd:YAG	35mJ@266nm+30mJ@355nm +125mJ@532nm+200mJ@1064nm pulse duration 7-9ns frequency up to 10Hz	higher energy is possible by request
266+532	lamp pumped Nd:YAG	35mJ@266nm+125mJ@532nm pulse duration 7-9ns frequency up to 10Hz	higher energy is possible by request
320	DPSS cw	5-40mW, M2<1.2 single frequency (coherence length over 100m) linearly polarized	
325	He-Cd laser	0.5-35mW multimode or TEM00 random or linearly polarized	
325+442	He-Cd laser	30mW@325nm+100mW@442nm multimode or TEM00 random or linearly polarized	
350-500	Ti:Sapphire tunable	pumped with Nd:YAG or Nd:YLF energy conversion up to 40% pulse duration 8-30ns frequency up to 50Hz	

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355	DPSS cw Nd:YAG	5-100mW, M2<1.2 single frequency (coherence length over 100m) linearly polarized	
355+532+1064	lamp pumped Nd:YAG	15mJ@355nm+35mJ@532nm +75mJ@1064nm pulse duration 70-80ps frequency up to 15Hz	
355+532+1064	lamp pumped Nd:YAG	30mJ@355nm+125mJ@532nm +200mJ@1064nm pulse duration 7-9ns frequency up to 10Hz	higher energy is possible by request
365	DPSS cw	5-20mW, M2<1.2 single frequency (coherence length over 100m) linearly polarized	
375	diode laser cw	0.5-60mW, M2<1.3 band width ca. 3-5nm, linearly polarized 1-150mW, M2<1.5 bandwidth ca. +/-5nm, linearly polarized	better beam characteristics are possible by request
395	diode laser cw	0.5-100mW, M2<1.3 band width ca.3-5nm linearly polarized	better beam characteristics are possible by request
405	diode laser cw	0.5-250mW, M2<1.3 band width ca.3-5nm linearly polarized	better beam characteristics are possible by request
410-710	OPO tunable, ns	pumped with TH of Nd:YAG energyconversion up to 40% pulse duration up to20ns frequency up to 50Hz	
415	diode laser, cw	0.5-100mW, M2<1.3 band width ca.3-5nm, linearly polarized 1-400mW, M2<1.5 band width ca. +/-5nm, linearly polarized	better beam characteristics are possible by request
425	diode laser cw	0.5-100mW, M2<1.3 band width ca.3-5nm linearly polarized	better beam characteristics are possible by request
425-710	OPO tunable, ps	pumped with TH of Nd:YAG energyconversion up to 12% pulse duration up to70-80ps frequency up to 15Hz	
442	DPSS cw	5-150mW, M2<1.2 single frequency (coherence length over 100m) linearly polarized	
442	He-Cd laser	0.5-150mW multimode or TEM00 random or linearly polarized	
445	diode laser cw	0.5-80mW, M2<1.3 band width ca. 3-5nm linearly polarized	better beam characteristics are possible by request
450	diode laser cw	1mW-6W, M2<1.5 band width ca. +/-2nm linearly polarized	better beam characteristics are possible by request

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457	diode laser cw	0.5-80mW, M2<1.3 band width ca. 3-5nm linearly polarized	better beam characteristics are possible by request
457	DPSS cw Nd:YVO ₄	50mW-5W, M2<1.2 multi frequency linearly polarized	
457	Ar laser	0.5-5mW linearly polarized multimode orTEM00	
460	diode laser cw	0.5-80mW, M2<1.3 band width ca. 3-5nm linearly polarized	better beam characteristics are possible by request
473	diode laser cw	0.5-80mW, M2<1.3 band width ca. 3-5nm linearly polarized	better beam characteristics are possible by request
473	DPSS cw Nd:YAG	5-100mW, M2<1.2 single frequency, linearly polarized 50mW-1W, M2<1.3 multi frequency, linearly polarized	
488	diode laser cw	0.5-180mW, M2<1.3 band width ca.3-5nm, linearly polarized 1-150mW, M2<1.5 band width ca. +/-5nm, linearly polarized	better beam characteristics are possible by request
488	Ar laser	0.5-20mW linearly polarized multimode orTEM00	
505	diode laser, cw	0.5-60mW, M2<1.3 band width ca. 3-5nm linearly polarized	better beam characteristics are possible by request
515	diode laser cw	0.5-60mW, M2<1.3 band width ca. 3-5nm linearly polarized	better beam characteristics are possible by request
515	Ar laser	0.5-15mW linearly polarized multimode orTEM00	
515	DPSS cw Yb:YAG	5mW-1W, M2<1.2 single frequency (coherence length over 100m) linearly polarized	
520	diode laser cw	0.5-100mW, M2<1.3 band width ca.3-5nm linearly polarized	better beam characteristics are possible by request
532	DPSS cw Nd:YAG	5mW-2W, M2<1.2 single frequency, linearly polarized 50mW-30W, M2<1.2 multi frequency, linearly polarized	
532+1064	lamp pumped Nd:YAG	35mJ@532nm+75mJ@1064nm pulseduration 70-80ps frequency up to 15Hz	

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532+1064	lamp pumped Nd:YAG	125mJ@532nm+200mJ@1064nm pulseduration 7-9ns frequency up to 10Hz	higher energy is possible by request
540	DPSS cw Nd:AIO ₃	5-50mW, M2<1.2, single frequency (coherence length over 100m) linearly polarized	
543	He-Ne laser	0.5-2.5mW multimode or TEM00 random or linearly polarized	
546	DPSS cw	5-50mW, M2<1.2, single frequency (coherence length over 100m) linearly polarized	
552	DPSS cw	5-50mW, M2<1.2, single frequency (coherence length over 100m) linearly polarized	
561	DPSS cw	5-150mW, M2<1.2, single frequency (coherence length over 100m) linearly polarized	
580-680	Forsterite tunable	pumped with Nd:YAG or Nd:YLF energyconversion up to 2% pulse duration 8-30ns frequency up to 50Hz	
589	DPSS cw	50mW-3W, M2<1.3 multi frequency linearly polarized	
594	He-Ne laser	0.5-2.0mW multimode or TEM00 random or linearly polarized	
594	DPSS cw	5-20mW, M2<1.3 multi frequency linearly polarized	
607	DPSS cw	5-50mW, M2<1.2, single frequency (coherence length over 100m) linearly polarized	
633	diode laser cw	0.5-90mW, M2<1.3 band width ca. 3-5nm linearly polarized	better beam characteristics are possible by request
633	He-Ne laser	0.5-100mW, multimode or TEM00 random or linearly polarized single- or multi-frequency	stabilized and with frequency splitting by request
633+1150	He-Ne laser	10mW@633nm+5mW@1150nm multimode or TEM00 random or linearly polarized single- or multi-frequency	
633+1150+3390	He-Ne laser	10mW@633nm+5mW@1150nm +5mW@3390nm, multimode or TEM00 random or linearly polarized single- or multi-frequency	

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635	diode laser cw	1mW-4W, M2 not specified band width ca. +/-5nm linearly polarized	
637	diode laser cw	1mW-4W, M2 not specified band width ca. +/-5nm linearly polarized	
638	diode laser cw	0.5-150mW, M2<1.3 band width ca.3-5nm linearly polarized	better beam characteristics are possible by request
640	DPSS cw	5-200mW, M2<1.2, single frequency (coherence length over 100m) linearly polarized	
650	diode laser cw	1mW-6W, M2<1.5 band width ca. +/-5nm linearly polarized	
660	diode laser cw	0.5-130mW, M2<1.3, band width ca.3-5nm linearly polarized 1mW-6W, M2<1.5, band width ca. +/-5nm linearly polarized	better beam characteristics are possible by request
660	DPSS cw Nd:YAG	50-200mW, M2<1.5 multi frequency linearly polarized	
671	DPSS cw Nd:YAIO ₃	50mW-3W, M2<1.2 multi frequency linearly polarized	
685	diode laser cw	0.5-50mW, M2<1.3 band width ca. 3-5nm linearly polarized	better beam characteristics are possible by request
690-1000	Ti:Sapphire tunable	pumped with Nd:YAG or Nd:YLF energy conversion up to 25% pulse duration 8-30ns frequency up to 50Hz	
705	diode laser cw	0.5-40mW, M2<1.3 band width ca. 3-5nm linearly polarized	better beam characteristics are possible by request
710-2300	OPO tunable, ns	pumped with TH of Nd:YAG energy conversion up to 25% pulse duration up to 20ns frequency up to 50Hz	
710-2300	OPO tunable, ps	pumped with TH of Nd:YAG energy conversion up to 10% pulse duration up to 70-80ps frequency up to 15Hz	
730	diode laser cw	0.5-40mW, M2<1.3 band width ca. 3-5nm inearly polarized	better beam characteristics are possible by request
785	diode laser cw	0.5-120mW, M2<1.3 band width ca. 3-5nm, linearly polarized 1mW-50W, M2 not specified band width ca. +/-5nm, linearly polarized	better beam characteristics are possible by request

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808	diode laser cw	0.5-140mW, M2<1.3 band width ca. 3-5nm, linearly polarized 1mW-50W, M2 not specified band width ca. +/-5nm, linearly polarized	better beam characteristics are possible by request
830	diode laser cw	0.5-250mW, M2<1.3 band width ca. 3-5nm linearly polarized 1mW-2W, M2 not specified band width ca. +/-5nm, linearly polarized	better beam characteristics are possible by request
914	DPSS cw Nd:YVO ₄	50mW-5W, M2<1.5 multi frequency linearly polarized	
915	diode laser cw	1mW-50W, M2 not specified band widthca. +/-5nm linearly polarized	
940	diode laser cw	1mW-50W, M2 not specified band widthca. +/-5nm linearly polarized	
946	DPSS cw Nd:YAG	50mW-1W, M2<1.5 multi frequency linearly polarized	
980	diode laser cw	1mW-50W, M2 not specified band widthca. +/-5nm linearly polarized	
1053	DPSS cw Nd:glass	50-100mW, M2<1.5 multi frequency linearly polarized	
1064	diode laser cw	1mW-2W, M2<1.5 band width ca. +/-5nm linearly polarized	
1064	DPSS cw Nd:YAG	5mW-3W, M2<1.2, single frequency(coherence length over 100m),linearly polarized; 50mW-30W, M2<1.5,multi frequency, linearly polarized	
1150	He-Ne laser	0.5-1.5mW multimode or TEM00 random or linearly polarized single- or multi-frequency	
1160-1360	Forsterite tunable	pumped with Nd:YAG or Nd:YLF energy conversion up to 9% pulse duration 8-30ns frequency up to 50Hz	
1319	DPSS cw Nd:YAG	50mW-2W, M2<1.5 multi frequency linearly polarized	
1342	DPSS cw Nd:YAIO ₃	50mW-3W, M2<1.5 multi frequency linearly polarized	
1550	diode laser cw	1-500mW, M2 not specified band width ca. +/-10nm linearly polarized	

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1870	diode laser cw	1-500mW, M2 not specified band width ca. +/-10nm linearly polarized	
2200	diode laser cw	1-500mW, M2 not specified band widthca. +/-10nm linearly polarized	
3391-3392	He-Ne laser	0.5-23mW, multimode or TEM00 random or linearly polarized single- or multi-frequency	
3500	He-Ne laser	0.5-12mW, multimode or TEM00 random or linearly polarized single- or multi-frequency	
5400	He-Ne laser	0.5-1.5mW, multimode or TEM00 random or linearly polarized single- or multi-frequency	
9200-10800	CO ₂ laser tunable	0.5-15mW multimode or TEM00(90%) linearly polarized, tunable	
10600	CO ₂ laser	0.5-50mW multimode or TEM00(90%) linearly polarized	pulsed lasers are possible by request