

LSM 780 laser power in μW measured in the sample plane for different settings of laser power percentage (0.2 – 50) and with different objectives (measured on 08/06/2020).

10x/0.3		405	458	488	514	561	633
0.2		5.9	0.7	2.5	1.6	1.5	1.7
0.5		16	1.3	6.5	3.5	2.7	3.6
1		32	2.0	13	6.6	4.8	6.5
5		134	8.3	65	31	21	30
10		279	16	130	62	42	59
50		1441	82	652	311	214	302
20x/0.8		405	458	488	514	561	633
0.2		6.5	0.9	4.2	2.0	1.9	2.3
0.5		17	1.6	9.2	4.3	3.6	4.8
1		35	2.6	18	8.0	6.2	8.8
5		146	10	85	38	27	40
10		304	20	169	76	55	81
50		1573	104	844	380	279	411
40x/1.3		405	458	488	514	561	633
0.2		5.7	0.7	2.4	1.5	1.5	1.9
0.5		15	1.3	6.2	3.3	2.8	2.5
1		31	2.1	12	6.2	4.7	7.5
5		134	8.3	62	29	21	35
10		277	16	124	58	43	69
50		1441	82	622	291	215	349
63x/1.2 W		405	458	488	514	561	633
0.2		2.3	0.4	1.3	0.8	0.8	0.9
0.5		6.2	0.7	3.1	1.6	1.4	1.8
1		13	1.1	6.2	3.0	2.4	3.3
5		54	4.3	31	18	11	15
10		113	8.4	62	31	22	30
50		585	42	314	145	106	151
63x/1.4		405	458	488	514	561	633
0.2		1.9	0.3	1.2	1.0	0.9	1.1
0.5		5.1	0.5	4.4	2.1	1.8	2.2
1		10	0.7	8.3	3.9	3.1	4.0
5		43	2.9	39	18	14	18
10		90	5.7	79	37	28	37
50		467	28	392	185	137	187
100x/1.46*		405	458	488	514	561	633
0.2		1.3	0.2	0.4	0.3	0.3	0.3
0.5		3.1	0.2	1.0	0.5	0.5	0.5
1		6.4	0.4	2.0	1.0	0.8	0.9
5		27	1.4	10	4.5	3.2	4.0
10		57	2.7	20	8.9	6.4	8.0
50		296	13	101	45	31	40

* the values are underestimated; the power-meter probe has limited light collection efficiency for objectives with NA > 1.4 (oil immersion).