

## SPECTRA X Light Engine® Power & Intensity levels

Actual power output of specific units subject to customized design specification. Output will depend on make and model of microscope.

Color band	Fluor	Excitation Filter	Light Engine Output Power (mW)		
			1 mm fiber	3 mm LLG	Collimator
Violet (380-410nm)	DAPI/ Hoechst	390/18	80	200	250
		386/23	60	150	175
		379/34	50	130	150
Blue (420-455nm)	CFP	438/24	105	275	350
		434/17	85	230	280
		445/20	60	160	190
Cyan (460-490nm)	GFP/FITC	475/28	75	205	245
		485/20	45	125	140
		475/35	80	215	255
Teal (500-520nm)	YFP	513/17	20	65	90
		510/10	15	40	55
		512/25	25	75	100
Green (535-600nm)	TRITC/Cy3	549/15	95	260	695
		542/27	110	390	705
		560/25	100	380	865
Yellow (535-600nm)	mCherry	575/25	100	300	660
		586/20	75	200	650
		585/29	80	210	650
Red (620-750nm)	Cy5	632/22	65	180	225
		628/40	70	190	235
		650/13	30	105	115

**NIR**

Output information available shortly, please inquire



Actual power output of specific units subject to customized design specification. Output will depend on make and model of microscope.

Color band	Fluor	Excitation Filter	Light Engine Output Intensity (mW/cm <sup>2</sup> )		
			1 mm fiber	3 mm LLG	Collimator
Violet (380-410nm)	DAPI/ Hoechst	390/18	10186	2829	51
		386/23	7639	2122	36
		379/34	6366	1839	31
Blue (420-455nm)	CFP	438/24	13369	3890	71
		434/17	10823	3254	57
		445/20	7639	2264	39
Cyan (460-490nm)	GFP/FITC	475/28	9549	2900	50
		485/20	5730	1768	29
		475/35	10186	3042	52
Teal (500-520nm)	YFP	513/17	2547	920	18
		510/10	1910	566	11
		512/25	3183	1061	20
Green (535-600nm)	TRITC/Cy3	549/15	12096	3678	142
		542/27	14006	5517	144
		560/25	12732	5376	176
Yellow (535-600nm)	mCherry	575/25	12732	4244	134
		586/20	9549	2829	132
		585/29	10186	2971	132
Red (620-750nm)	Cy5	632/22	8276	2546	46
		628/40	8913	2688	48
		650/13	3820	1485	23

**NIR**

Output information available shortly, please inquire