

## Four Wavelengths Laser Therapy

When the skin is exposed to laser radiation, the photons, depending on their wavelength, penetrate into the tissue to some extent. This penetration and absorption in different layers of the skin cause different therapeutic effects. In general, the four main wavelengths used in therapy lasers are 650 nm, 808 nm, 980 nm and 1064 nm. Lasers with a wider range of power offer a variety of treatment options. The laser, which its power can be adjusted from 0.5 to 25 w, allows the physician to treat slowly at low power or fast at maximum output power.



### Specifications

- Type of Laser: Diode Laser
- Laser Power: 0.5 to 25 W
- Laser Wavelength: 650, 808, 980 & 1064 nm
- Mode of Operation: CW & Pulsed
- Repetition Rate: 1 Hz to 25 KHz
- Duty Cycle: 10 to 90 %
- Operating Temperature: 15-35°
- Power Source: 220 V, 50 Hz

## Other Information

adjustable specifications		Nominal amount of tolerance		
		Min.	Typ.	Max.
Output power (W)	808 nm	9	10	
	980 nm	9	10	
	1064 nm	9	10	
Peak wavelength (nm)	808 nm	798	808	818
	980 nm	965	975	985
	1064 nm	1054	1064	1074
Peak wavelength (nm)	808 nm	1	3	4
	980 nm	2	4	5
	1064 nm	2	4	8
Threshold current (A)	808 nm	0.8		
	980 nm	0.8		
	1064 nm	0.8		
Operating current (A)	808 nm		5.7	6.7
	980 nm		12	13
	1064 nm		7	8
Operating voltage (v)	808 nm		3.6	3.7
	980 nm		1.6	1.8
	1064 nm		3	3.4
Guiding light	Output power (mW)	500		
	Output wavelength (nm)	640	650	660
	Operating voltage (v)		<2.5	
	Operating current (A)	0.6	0.8	0.8

## Application

Product applications can include treatment of the following:

- Knee, Pelvis and Ankle Osteoarthritis
- Lumbar Degeneration Disc
- Rheumatoid Arthritis
- Herniation Disc
- Trauma-induced Shoulder Syndromes
- Sciatica
- Hip or Shoulder Bursitis
- Tendonitis
- Tennis Elbow

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