

# HAIR REMOVAL COMPARISON CHART

Supplier Product Name	Device Type	Wavelength (nm)	Energy Output (Joules)	Pulse Length	Accessories
<b>Aesthera</b>					
Isolaz	Photopneumatic	550 - 1200 nm	Up to 60 J/cm <sup>2</sup>	Up to 25 ms	Multi-application (acne, SR). No pain. Various start-up packages.
<b>Alma Lasers</b>					
Soprano <sup>XL</sup>	CW Diode	810 nm	Up to 120 J/cm <sup>2</sup>	10 – 1350 ms	Combining both the Super Hair Removal Mode, for virtually painless Tx, and traditional higher fluence hair removal.
Harmony	AFT Pulsed Light Near Infrared	650 – 950 nm N/A	5 – 20 J/cm <sup>2</sup> 1 – 5 J/cm <sup>2</sup>	30, 40, 50 ms 1, 3, 30 ms	HR module, 40 x 16 mm spot size, depot service.
<b>Asclepion Laser</b>					
MeDioStar XT	Diode	808 nm	Up to 90 J/cm <sup>2</sup>	Up to 500 ms	10 mm and 12 mm spot sizes (standard); 14 mm tips available; integrated skin cooling.
MeDioStar miXT	Diode	810 nm / 940 nm (combined)	Up to 90 J/cm <sup>2</sup>	Up to 500 ms	10 mm and 12 mm spot sizes (standard); 4, 6, 14 mm tips available; integrated skin cooling.
MeDioStar XT-V	Diode	808 nm	Up to 90 J/cm <sup>2</sup> (hair removal), Up to 170 J/cm <sup>2</sup> (vascular)	Up to 500 ms	10 mm and 12 mm spot sizes (standard); 14 mm tips available; integrated skin cooling.
MeDioStar miXT-V	Diode	810 nm / 940 nm (combined)	Up to 90 J, Up to 170 J (vascular)	Up to 500 ms	10 mm and 12 mm spot sizes (standard); 4, 6, 14 mm tips available; integrated skin cooling.
<b>Candela</b>					
GentleLASE (Various Models)	Alexandrite	755 nm	Up to 100 J/cm <sup>2</sup>	3 ms	Spot sizes 6-18 mm; unique, patented Dynamic Cooling Device, maximizing patient comfort and Tx efficacy.
GentleYAG (Various Models)	Nd:YAG	1064 nm	Up to 600 J/cm <sup>2</sup>	0.250 – 300 ms	Spot sizes 1.5 – 18 mm; unique, patented Dynamic Cooling Device, maximizing patient comfort and Tx efficacy.
GentleMax Configurable Workstation	Alexandrite / Nd:YAG	755 nm / 1064 nm	Up to 600 J/cm <sup>2</sup>	0.250 - 300 ms	Spot sizes 1.5 – 18 mm; unique, patented Dynamic Cooling Device, maximizing patient comfort and Tx efficacy and air cooling. Upgradable.
<b>CoolTouch</b>					
VARIA	Nd:YAG	1064 nm	500 J/cm <sup>2</sup>	300 ms to continuous	VariZoom handpiece with 2 - 10 mm adjustable spot size and new interchangeable treatment guides. Pulsed cryogen cooling with pre- and post-cooling.
<b>Cutera</b>					
CoolGlide CV	Nd:YAG	1064 nm	10 - 100 J	10 - 100 ms	Treats all skin types and tanned skin. No disposable costs.
XEO	Long Pulse Nd:YAG/ Infrared	1064 nm/ Programmable	Up to 300 J/ 5 - 35 J	0.1 - 300 ms/ Automatic, based on program	Removes fine and course hair safely. Spot size 10 mm (or 10 x 30 mm). Real time calibration. Upgradable in the field.
Solera Opus	Infrared	Programmable	5 - 35 J	Variable over fluence range	Fast treatment speeds at therapeutic fluences. Real time calibration. No numbing cream or gel required.
<b>Cynosure, Inc.</b>					
Apogee	Alexandrite	755 nm	25 - 50 J/cm <sup>2</sup>	0.5 - 300 ms	SmartCool air cooling. Spot sizes: 12 mm, 15 mm.
Elite	Alexandrite / Nd:YAG	755 nm / 1064 nm	25 - 100 J/cm <sup>2</sup> / 35 - 300 J/cm <sup>2</sup>	0.5 - 300 ms / 0.4 - 300 ms	
Acclaim	Nd:YAG	1064 nm	35 - 300 J/cm <sup>2</sup>	0.4 - 300 ms	
<b>DEKA</b>					
Synchro HP	Nd:YAG	1064 nm	Up to 700 J/cm <sup>2</sup>	0.2 - 300 ms	Long pulse Nd:YAG spot sizes up to 20 mm, peak power 50-27,000 W (dual switch). Nine U-shape pulsed light handpieces. 60,000 warranted shots.

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<b>DEKA (continued)</b>					
Synchro	U-PL Er:YAG QS-Nd:YAG	500 - 950 nm 2940 nm 1064 nm	Up to 32 J/cm <sup>2</sup> Up to 15 J/cm <sup>2</sup> Up to 41 J/cm <sup>2</sup>	3 - 40 ms Up to 600 μs Up to 2 ms	Built-in power meter for U-PL handpieces. Skin cooling integrated. Er:YAG handpiece, QS-Nd:YAG handpiece.
	Nd:YAG U-PL	1064 nm 500 - 950 nm	Up to 200 J/cm <sup>2</sup> Up to 21 J/cm <sup>2</sup>	4 - 135 ms 10 - 325 ms	Long pulse Nd:YAG spot sizes up to 10 mm. Nine U-shape pulsed light handpieces. 60,000 warranted shots. Built-in power meter (U-PL).
Photosilk Plus	U-PL Nd:YAG Er:YAG QS-Nd:YAG	500 - 950 nm 1064 nm 2940 nm 1064 nm	Up to 32 J/cm <sup>2</sup> Up to 225 J/cm <sup>2</sup> Up to 15 J/cm <sup>2</sup> Up to 41 J/cm <sup>2</sup>	3 - 25 ms Up to 25 ms Up to 1,000 μs Up to 2 ms	Nine U-shape pulsed light handpieces. 60,000 warranted shots. Built-in power meter for U-PL handpieces. Skin cooling integrated. Nd:YAG handpiece. Er:YAG handpiece, QS-Nd:YAG handpiece.
	U-PL Nd:YAG Er:YAG	500 - 950 nm 1064 nm 2940 nm	Up to 30 J/cm <sup>2</sup> Up to 200 J/cm <sup>2</sup> Up to 6.4 J/cm <sup>2</sup>	3 - 25 ms Up to 2 ms Up to 1,000 μs	Nine U-shape pulsed light handpieces. 60,000 warranted shots. Built-in power meter (U-PL). Nd:YAG handpiece. Er:YAG handpiece. Portable.
Photolight	U-PL Nd:YAG Er:YAG	500 - 950 nm 1064 nm 2940 nm	Up to 30 J/cm <sup>2</sup> Up to 200 J/cm <sup>2</sup> Up to 6.4 J/cm <sup>2</sup>	3 - 25 ms Up to 2 ms Up to 1,000 μs	Nine U-shape pulsed light handpieces. 60,000 warranted shots. Built-in power meter (U-PL). Nd:YAG handpiece. Er:YAG handpiece. Portable.
Photosilk	U-PL Pulsed Light System	500 - 950 nm	Up to 30 J/cm <sup>2</sup>	10 - 340 ms	Two U-shape pulsed light handpieces. 60,000 warranted shots. Built-in power meter for U-PL. Skin cooling integrated.
Minisilk FT	Pulsed Light System	500 - 1200 nm, 520 - 1200 nm, 550 - 1200 nm, 600 - 1200 nm, 650 - 1200 nm	Up to 25 J/cm <sup>2</sup>	Single pulse: 3 - 8 ms, Burst mode: up to 124 ms	One pulsed light handpiece has 30,000 warranted shots. Skin cooling integrated. Built-in power meter. Portable.
DOT 1540	Er:Glass Nd:YAP CW IR Lamp Pulsed Light	1540 nm 1340 nm 750 - 1800 nm 500 - 1200 nm	Up to 32 J/cm <sup>2</sup> Up to 37 J/cm <sup>2</sup> Up to 65 J/cm <sup>2</sup> Up to 25 J/cm <sup>2</sup>	10 ms Up to 10 ms CW 3 - 8 ms	Skin rejuvenation, skin tightening and hair removal workstations. Fractional Er:Glass handpiece with 7 mm and 10 mm spot sizes. Skin cooling integrated. Fractional Nd:YAP handpiece with 6 mm spot size. CW IR handpiece for skin tightening and collagen shrinkage treatment. Skin cooling integrated. Pulsed light handpiece with five different removable filters for hair removal too. Skin cooling integrated.
<b>Ellipse A/S</b>					
Ellipse Flex PPT	Pulsed Light	600 - 950 nm, 645 - 950 nm	Up to 21 J	Up to 100 ms	Multi-application platform includes programmable pulse technology (PPT) and patient database. Three different handpieces available for hair removal.
Ellipse I <sup>2</sup> PL	Pulsed Light	600 - 950 nm, 645 - 950 nm	Up to 21 J	Up to 100 ms	Multi-application platform. Three different handpieces available for hair removal.
<b>Energist</b>					
VariMed	Pulsed Light	610 nm - 950 nm	Up to 45 J/cm <sup>2</sup>	Up to 385 ms	Unique VPL pulse technology, 25,000 shots guaranteed, 10 mm x 50 mm Tx area, water-cooled applicators to withstand continuous usage.
UltraPlus	Variable Pulsed Light	610 nm - 950 nm	Up to 45 J/cm <sup>2</sup>	Up to 385 ms	Broad range of pre-programmed VPL settings for ease of use, 25,000 shots guaranteed, 10 mm x 50 mm Tx area, water-cooled applicators.
<b>General Project</b>					
GP Flash 1	Pulsed Light	590 - 1200 nm	Up to 500 J at lamp level	Pre-set modes: 1.5, 2, 2.5 ms	Spot sizes: 50 x 25 mm, 35 x 15 mm, 20 x 10 mm.
Flash 1 Plus	Pulsed Light	590 - 1200 nm, 640 - 1200 nm	Up to 600 J at lamp level	Single pulse: 25 - 75 ms, pulsed mode: 1.5 - 12.5 ms (duration), 5 - 100 ms (interval)	Spot sizes: 50 x 25 mm, 35 x 15 mm, 20 x 10 mm.
Med Flash II	Pulsed Light	590 - 1200 nm, 640 - 1200 nm	Up to 600 J at lamp level	Single pulse: 25 - 75 ms, pulsed mode: 1.2 - 12.5 ms (duration), 5 - 100 ms (interval)	Spot sizes: 50 x 25 mm, 35 x 15 mm, 20 x 10 mm; skin cooling system integrated.

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<b>HOYA ConBio Europe</b>					
RevLite	EO Q-switched PTP Nd:YAG	1064 nm	Up to 12 J/cm <sup>2</sup> PTP	5 - 20 ns	PurpuraLite compression handpieces. Optional aiming beam. No need for skin cooling. Designed for fast and safe hair reduction Tx. Works on all skin types. Particularly efficient on dark vellus hairs.
MedLite C6	EO Q-switched Nd:YAG	1064 nm	Up to 12 J/cm <sup>2</sup>	5 - 20 ns	Same as above.
<b>IRIDEX</b>					
Gemini	Nd:YAG / KTP	1064 / 532	up to 990 / up to 100	10-100 / 1-100	Includes 1-5 mm continuously adjustable and 10 mm fixed VersaStat i.
Lyra i	Nd:YAG	1064 nm	5 - 900	20 - 100	Includes 1-5 mm continuously adjustable and 10 mm fixed VersaStat i.
<b>LASERING</b>					
Velure S800	Diode	808 nm	10 - 600 J/cm <sup>2</sup>	10 - 1000 ms	Interchangeable inserts for spot sizes of 2.5, 4, 8, 12 mm with ADS (Automatic Detection System) safety system.
<b>Lumenis</b>					
LightSheer ET	Diode	800 nm	10 - 100 J/cm <sup>2</sup>	5 - 400 ms	ChillTip handpiece. 9 x 9 mm spot.
LightSheer ST	Diode	800 nm	10 - 40 J/cm <sup>2</sup>	5 - 100 ms	ChillTip handpiece. 9 x 9 mm spot.
LightSheer XC	Diode	800 nm	10 - 100 J/cm <sup>2</sup>	5 - 400 ms	ChillTip handpiece. 12 x 12 mm spot.
IPL Quantum SR or DL with HR upgrade	Intense Pulsed Light	695 - 1200 nm	20 - 45 J/cm <sup>2</sup>	6 - 18 ms	Upgrade for IPL Quantum DL or SR, spot size 34 x 8 mm, optional 755 - 1200 nm head.
Lumenis One	Intense Pulsed Light	515 - 1200 nm	10 - 40 J/cm <sup>2</sup>	3 - 100 ms	Multi-application, multi-technology platform. Upgradable. Optimized presets and comprehensive patient database.
	Nd:YAG	1064 nm	10 - 225 J/cm <sup>2</sup>	2 - 20 ms	Spot sizes: 15 x 35 mm and 8 x 15 mm (IPL); 3, 6, 9 mm (Nd:YAG).
	LightSheer Diode	800 nm	10 - 100 J/cm <sup>2</sup>	5 - 400 ms	
	Aluma	RF	2 - 10 W	1 - 5 sec	
Elora	IPL	570 - 1200 nm	Up to 22 J/cm <sup>2</sup>	N/A	Spot size of 20 x 30 mm crystal, 33 Hz.
<b>Mattioli Engineering</b>					
Mattioli Pulse Two	IPL	650 - 960 nm	26 cm <sup>2</sup>	10 - 35 ms	Spot size 50 mm x 15 mm (7.5 cm <sup>2</sup> ). Works on all skin types, easy interface; SR handpiece included. Lamp water cooling and low temp. Integrated contact cooling (Peltier). Multiple language display and 1 second shot feature.
<b>MedArt A/S</b>					
MedArt 435	90 W Diode	810 nm	Max 1000 J/cm <sup>2</sup>	Super long pulse 10-1000 ms	Treatment of all Fitzpatrick skin types. Pulsed or CW mode. Scanner with up to 5.7 cm <sup>2</sup> Tx area covered by a series of 8 mm spots. Integrated skin cooling for pre-, parallel and post-cooling. Tips with spot sizes 1.2 mm, 2.5 mm, 4.0 mm for the treatment of superficial vascular lesions.
<b>Milesman</b>					
Milesman Premium	Diode	800 nm	10 - 100 J/cm <sup>2</sup>	5 - 400 ms	Supercooled tip (0.5° C, 33° F). Spot size: 10 x 10 mm, 3 Hz, no consumables.
Milesman Premium Limited	Diode	800 nm	10 - 60 J/cm <sup>2</sup>	30 - 400 ms	Supercooled tip (0.5° C, 33° F). Spot size: 10 x 10 mm, 3 Hz, no consumables.
<b>Palomar</b>					
StarLux 500 Platform	Pulsed Light	525-1200 nm	Up to 80 J	5 - 500	Active contact cooling.

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<b>Quanta System</b>						
Light A	Alexandrite	755	Up to 120 J/cm <sup>2</sup>	3 - 100 ms	Contact skin cooling or cryo air system integrated with the laser handpiece. Alexandrite spot sizes: up to 16 mm; repetition rate up to 2 Hz. Nd:YAG 1064 nm long and short pulse spot sizes: up to 12 mm; repetition rate up to 2 and 7 Hz. Nd:YAG 1320 nm (optional) spot sizes: up to 8 mm; repetition rate up to 5 Hz. Nd:YAG 532 and 1064 Q-switched spot sizes: 2, 3, 4, 6 mm; repetition rate up to 10 Hz. TWAIN IPL pulsed light option available for all laser systems at 400 - 1200, 550 - 950, 570 - 1200, 90 - 1200, 625 - 1200 and 650 - 1200 nm.	
Light B	Nd:YAG	1064, 1320	Up to 500 J/cm <sup>2</sup> , Up to 35 J/cm <sup>2</sup>	0.3 - 300 ms, 5 - 10 ms		
Light C	Nd:YAG KTP Nd:YAG	1064, 1320 532	Up to 500 J/cm <sup>2</sup> , Up to 35 J/cm <sup>2</sup> Up to 90 J/cm <sup>2</sup>	0.3 - 300 ms, 5 - 10 ms 5 - 25 ms		
Light A* (Star)	Alexandrite / Nd:YAG	755 / 1064, 1320	Up to 120 J/cm <sup>2</sup> / Up to 500 J/cm <sup>2</sup> , Up to 35 J/cm <sup>2</sup>	3 - 100 ms / 0.3 - 300 ms, 5 - 10 ms		
Light 4V	Alexandrite / Nd:YAG / KTP Nd:YAG	755 / 1064, 1320 / 532	Up to 120 J/cm <sup>2</sup> / Up to 500 J/cm <sup>2</sup> Up to 35 J/cm <sup>2</sup> / Up to 90 J/cm <sup>2</sup>	3 - 100 ms / 0.3 - 300 ms, 5 - 10 ms / 5 - 25 ms		
Q-Plus* Star 1	Nd:YAG Nd:YAG Q-switched KTP Nd:YAG Q-switched	1064, 1320 1064 532	Up to 500 J/cm <sup>2</sup> , Up to 35 J/cm <sup>2</sup> Up to 30 J/cm <sup>2</sup> Up to 15 J/cm <sup>2</sup>	0.3 - 300 ms, 5 - 10 ms 6 ns 6 ns		
Q-Plus* Star 2	Alexandrite Nd:YAG Q-switched KTP Nd:YAG Q-switched	755 1064 532	Up to 120 J/cm <sup>2</sup> Up to 30 J/cm <sup>2</sup> Up to 15 J/cm <sup>2</sup>	3 - 100 ms 6 ns 6 ns		
Matisse HR	Fractional Er:Glass Alexandrite	1540 755	Up to 250 J/cm <sup>2</sup> per MTZ Up to 120 J/cm <sup>2</sup>	4 - 14 ms 3 - 100 ms		
Matisse VT	Fractional Er:Glass Nd:YAG	1540 1064, 1320	Up to 250 J/cm <sup>2</sup> per MTZ Up to 500 J/cm <sup>2</sup> , Up to 35 J/cm <sup>2</sup>	4 - 14 ms 0.3 - 300 ms, 5 - 10 ms		
TWAIN IPL option	Pulsed Light	625 - 1200	Up to 40 J/cm <sup>2</sup>	3 - 240 ms		
Eterna Giovinezza Plus	Pulsed Light	550 - 950, 625 - 1200	Up to 40 J/cm <sup>2</sup>	3 - 240 ms		
Silk Light (table top)	Pulsed Light	625 - 1200	Up to 40 J/cm <sup>2</sup>	3 - 240 ms		
<b>Quantel Medical</b>						
PROLITE II	Intense Pulsed Light	530 - 1200 nm	12 - 38 J/cm <sup>2</sup>	24 - 120 ms		One pulsed light handpiece included with system, spot size 10 x 20 mm.
<b>Radiancy</b>						
Mistral	LHE (light, heat, energy)	400-1200 nm	4-15 J/cm <sup>2</sup>	up to 80 ms	Assorted light unit assemblies (LUAs).	
SkinStation	LHE	400-1200 nm	up to 11 J/cm <sup>2</sup>	35 ms	Assorted light unit assemblies (LUAs).	
Duet	LHE	400-1200 nm	up to 11 J/cm <sup>2</sup>	35 ms	Assorted light unit assemblies (LUAs).	
<b>Sciton</b>						
Profile Console	Nd:YAG	1064 nm	4 - 400 J	0.1 - 200 ms	Holds up to four upgradable laser modules.	
Profile 1064 Module	Nd:YAG	1064 nm	Up to 400 J	0.1 - 200 ms	30 x 30 mm hi-speed scan, contact cooling.	
<b>SharpLight</b>						
Beamax	Pulsed Light CPM	635 - 950 nm	5 - 20 J/cm <sup>2</sup>	30 - 50 ms	System includes one MAXreduction handpiece.	
Formax	DPC Forming (Dynamic Pulse Control)	635 - 950 nm (DPC)	5 - 24 J/cm <sup>2</sup>	15, 30, 40, 50, 100 ms (DPC)	System includes one trolley, MAXreduction handpiece, thermal cooling with DPC forming. Spot size: 6.4 cm <sup>2</sup> .	
<b>Syneron</b>						
eMax / eLaser DSL	eIōs: Diode combined with RF electrical energy	810 nm	Up to 50 J/cm <sup>2</sup> (Optical) Up to 50 J/cm <sup>3</sup> (RF)	Optical + RF, short/long	Applicator head included. 12 x 15 mm treatment area. No disposable costs.	
eMax / eLight DS	eIōs: IPL combined with RF electrical energy	680 - 980 nm	Up to 45 J/cm <sup>2</sup> (Optical) Up to 25 J/cm <sup>3</sup> (RF)	Optical + RF, short/long	Applicator head included. 12 x 25 mm treatment area. No disposable costs.	

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