

SKIN REJUVENATION COMPARISON CHART

Supplier Product Name	Device Type	Wavelength (nm)	Energy Output (Joules)	Pulse Length	Accessories
Aesthera					
Isolaz	Photopneumatic	500 - 1200 nm, 550 - 1200 nm	Up to 60 J/cm ²	Up to 25 ms	Multi-application (acne, HR). No pain. Various start-up packages.
Alma Lasers					
Harmony	AFT Pulsed Light	515 - 950 nm, 540 - 950 nm, 570 - 950 nm,	5 - 25 J/cm ² , 5 - 20 J/cm ² , 5 - 20 J/cm ²	10, 12, 15 ms, 10, 12, 15 ms, 10, 12, 15 ms	SVL module, 40 x 16 mm spot, depot service. VL/PL module, 40 x 16 mm spot, depot service. SR module, 40 x 16 mm spot, depot service.
	Near-Infrared	780 - 1000 nm	Up to 105 J/cm ²	5, 10, 15 sec	ST module, 40 x 16 mm spot, depot service.
	Nd:YAG	1064 nm, 1320 nm	30 - 450 J/cm ² , 5 - 40 J/cm ²	10, 40, 60 ms, 30, 40, 50 ms	1064 module. 1320 module.
	Er:YAG Pixel	2940 nm 2940 nm	200 - 1200 mJ/p 1400 mJ/p	0.5, 1.0 ms N/A	2940 module. Pixel 2940 module.
Asclepion Laser					
MeDioStar	Diode	808 nm	up to 170 J/cm ²	up to 500 ms	10 and 12 mm spot sizes (standard); 4, 6 and 14 mm tips available; integrated skin cooling.
Candela					
Vbeam Aesthetica	Pulsed Dye	595 nm	Up to 20 J/cm ²	0.45 - 40 ms	Spot sizes up to 10 mm, two pigmented lesion handpieces; unique, patented Dynamic Cooling Device, maximizing patient comfort and Tx efficacy.
Vbeam Perfecta	Pulsed Dye	595 nm	Up to 40 J/cm ²	0.45 - 40 ms	Six spot sizes up to 12 mm, including 3 x 10 elliptical and pigmented lesion handpieces; unique, patented Dynamic Cooling Device, maximizing patient comfort and Tx efficacy.
GentleLASE (Various models)	Alexandrite	755 nm	Up to 100 J/cm ²	3 ms	Spot sizes 6-18 mm; unique, patented Dynamic Cooling Device, maximizing patient comfort and Tx efficacy.
Smoothbeam	Diode	1450 nm	Up to 25 J/cm ²	210 ms	Spot sizes 4 - 6 mm; unique, patented Dynamic Cooling Device, maximizing patient comfort and Tx efficacy.
GentleYAG (Various models)	Nd:YAG	1064 nm	Up to 600 J/cm ²	0.25 - 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 ²	0.25 - 300 ms	Spot sizes 1.5 - 18 mm; unique, patented Dynamic Cooling Device, maximizing patient comfort and Tx efficacy and air cooling available. Upgradable.
SmoothPeel	Erbium:YAG	2940 nm	Max energy 750 mJ	2, 4, 6 Hz	Spot sizes 5 and 9 mm.
CoolTouch					
CT3 PLUS	Nd:YAG	1320 nm	Up to 24 J/cm ²	50 ms to continuous	10 mm spot size. Pulsed pre-, mid- and post-cryogen cooling. Treats wrinkles, acne and acne scars. New painless skin tightening mode.
Cutera					
CoolGlide Vantage	Nd:YAG	1064 nm	Up to 300 J	0.1 - 300 ms	3D skin rejuvenation; treats all skin types. Skin tightening, proven efficacy.
Xeo	Long Pulse Nd:YAG	1064 nm	Up to 300 J	0.1 - 300 ms	No gel (1064, 560, 600). Direct contact (pulsed light, Titan). No one time consumables.
Solera Opus	Intelligent Pulsed Light Infrared	560 - 1200 nm, 600 - 850 nm 1100 - 1800 nm	5 - 20 J 6 - 40 J 5 - 65 J	Automatic (pulsed light) 4 - 11 sec.	Real time calibration. Upgradable in the field.
	Intelligent Pulsed Light	560 - 1200 nm, 600 - 850 nm	5 - 20 J, 6 - 40 J	Automatic (pulsed light)	Real time calibration. Large spot size for fast Tx. No numbing cream or gel required.
Pearl	YSGG Laser	2790 nm	1.5 - 3.5	Sub-millisecond adjustment	Treatments can be completed in 10 - 15 minutes (full-face). No disposables, full epidermal turnover with low impact downtime (3 to 4 days).
Cynosure, Inc.					
Affirm	Nd:YAG with CAP technology	1440 nm	8 J/cm ²	3 ms	SmartCool air cooling device.
	Xenon Pulsed Light (XPL)	560 - 950 nm	20 J/cm ²	5 - 35 ms	
Elite	Alexandrite / Nd:YAG	1064 nm	755 nm / 35 - 300 J/cm ²	25 - 100 J/cm ² / 0.4 - 300 ms	0.5 - 300 ms / SmartCool air cooling. Spot sizes: 12 mm and 15 mm.
Cynergy	Pulsed Dye / Nd:YAG / Pulsed Light	585 nm / 1064 nm / 560 - 950 nm	7 - 40 J/cm ² / 35 - 300 J/cm ² / 16 J - 8.3 cm ² , 30 J - 4.6 cm ² , 30 J - 2.1 cm ² handpieces.	0.5 - 40 ms / 0.3 - 300 ms / 5 - 50 ms	SmartCool air cooling. Air cooling pulsed light module is portable and can be used separately.
DEKA					
SmartXide DOT	CO ₂ Laser and scanner system	10,600 nm	30 W	From 0.2 ms to 20 ms	Scanner offers standard or DOT scanning mode.

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DEKA (continued)					
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 ² Up to 37 J/cm ² Up to 65 J/cm ² Up to 25 J/cm ²	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. Skin cooling integrated. Pulsed light handpiece with five different removable filters for hair removal, skin cooling integrated.
Minisilk FT	Pulsed Light	500 - 1200 nm, 520 - 1200 nm, 550 - 1200 nm, 600 - 1200 nm, 650 - 1200 nm	Up to 25 J/cm ²	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.
Synchro HP	Nd:YAG U-PL Er:YAG QS-Nd:YAG	1064 nm 500 - 950 nm 2940 nm 1064 nm	Up to 700 J/cm ² Up to 32 J/cm ² Up to 15 J/cm ² Up to 41 J/cm ²	0.2 - 300 ms 3 - 40 ms Up to 600 µs Up to 2 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. Built-in power meter for U-PL handpieces. Skin cooling integrated. Er:YAG handpiece, QS-Nd:YAG handpiece.
Synchro	Nd:YAG U-PL	1064 nm 500 - 950 nm	Up to 200 J/cm ² Up to 21 J/cm ²	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).
Smartepil LS	Long Pulse Nd:YAG	1064 nm	Up to 225 J/cm ²	Up to 20 ms	Spot size up to 6 mm.
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 ² Up to 225 J/cm ² Up to 15 J/cm ² Up to 41 J/cm ²	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.
Photolight	U-PL Nd:YAG Er:YAG	500 - 950 nm 1064 nm 2940 nm	Up to 30 J/cm ² Up to 200 J/cm ² Up to 6.4 J/cm ²	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.
Dermobeam 2000	Pulsed Dye Laser	595 nm	Up to 3 J	0.5 - 40 ms	5 mm and 7 mm spot sizes.
Ellipse A/S					
Ellipse Flex PPT	Pulsed Light	530 - 750 nm, 555 - 950 nm	Up to 19 J	Up to 100 ms	Multi-application platform includes programmable pulse technology (PPT) and patient database. Two different handpieces available for rejuvenation.
Ellipse I ² PL	Pulsed Light	530 - 750 nm, 555 - 950 nm	Up to 19 J	Up to 100 ms	Multi-application platform. Two different handpieces available for rejuvenation.
Energist					
VariMed	Variable Pulsed Light	530 nm - 950 nm	Up to 51 J/cm ²	Up to 385 ms	Unique VPL pulse technology, 10 mm x 50 mm Tx area, water-cooled applicators to withstand continuous usage.
UltraPlus	Variable Pulsed Light	530 nm - 950 nm	Up to 51 J/cm ²	Up to 385 ms	Broad range of pre-programmed VPL settings for ease of use, 10 mm x 50 mm Tx area, water-cooled applicators.
ReGen	LED	415 nm, 630 nm	N/A	N/A	One of the highest intensity LED systems on the market, large Tx area, fully adjustable intensity levels, flexible height adjustment.
General Project					
3Face	Multiple Modalities	590 - 800 nm; 350 - 510 nm; 520 - 800 nm	Up to 30 J	Pre-set from 0 - 4 sec	Multiple system for face care (microdermabrasion, vacuum assisted massage, phototherapy with HBLM™ technology).
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: 1.5-12.5 ms (duration), 5-100 ms (interval)	Spot sizes: 50 x 25 mm, 35 x 15 mm, 20 x 10 mm; skin cooling system integrated.
HOYA ConBio Europe					
RevLite	EO Q-switched PTP Nd:YAG	1064 nm	Up to 12 J/cm ² PTP	5 - 20 ns	Optional aiming beam. No need for skin cooling. Works on all skin types.
MedLite C6	EO Q-switched Nd:YAG	1064 nm	Up to 12 J/cm ²	5 - 20 ns	Optional aiming beam. No need for skin cooling. Works on all skin types.
INTERmedic					
ContrÂge	Diode Laser/ Radiofrequency/ Ultrasound	980 nm	Up to 1000 J/cm ²	5 ms - 500 ms	Handpiece for dermatological and vascular surgery.

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IRIDEX					
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.
Venus i	Er:YAG	2940	200 - 2000 mJ	300 mcs	Includes Smartscan Plus: 1 mm to 25 mm; Lens cell handpiece: 1,3,5.
VariLite	Diode-pumped KTP/direct diode	532 / 940 nm	950 / 900	5 - 100 ms	
Aura i	KTP	532 nm	1 - 240	1 - 50 mcs	Includes 1-5 mm continuously adjustable VersaStat i.
Lyra i	Nd:YAG	1064 nm	5 - 900	20 - 100	Includes 1-5 mm continuously adjustable and 10 mm fixed VersaStat i.
LASERING					
SLIM E30 MiXto SX	CO ₂	10,600 nm	0.5 – 30 W	N/A	Patent pending MiXto SX fractional scanner system. Full range of traditional accessories available.
Velure S5 MiXto VX	Diode	532 nm	0.1 – 5 W	10-1000 ms	MiXto VX fractional scanner. Focusing handpieces with spot sizes of 0.3 mm, 0.5 mm, 1.5 mm.
Velure S5	Diode	532 nm	0.1 – 5 W	10-1000 ms	Focusing handpieces with spot sizes of 0.3 mm, 0.5 mm, 1.5 mm.
Lumenis					
IPL Quantum SR	Intense Pulsed Light	560 - 1200 nm	15 - 45 J/cm ²	6 - 26 ms	Upgradable to hair removal (HR), deep vascular lesions and leg veins (DL) and tattoo removal (QS). Spot size 34 x 8 mm, optional 590 nm and 640 nm heads for skin rejuvenation.
Lumenis One	Intense Pulsed Light	515 - 1200 nm	10 - 40 J/cm ²	3 - 100 ms	Multi-technology, multi-application platform. Upgradable, expandable. 7 IPL filters, novel (OPT) optimized pulsing technology, optimized presets and patient database, spot sizes: 15 x 35 mm and 8 x 15 mm (IPL), 2 x 4, 6, 9 mm (Nd:YAG). LightSheer 9 x 9 mm.
Elora	Nd:YAG / LightSheer Diode Aluma RF IPL	1064 nm / 800 nm RF	10 - 225 J/cm ² / 10 - 100 J/cm ² 2 - 20 W	2 - 20 ms / 5 - 400 ms 1 - 5 sec	Spot size of 20 x 30 mm crystal, 33 Hz.
Lutronic Corporation					
MOSAIC	Erbium Fiber	N/A	N/A	4 - 40 mJ	Multiple treatment tips. Chaos Scanning Technology (CST).
Spectra VRM II	Q-switched Nd:YAG	1064 nm, 532 nm, 585 nm, 650 nm	1 J	5-7 ns / 300 µs	Zoom handpiece, collimated handpiece, 585 nm and 650 nm laser handpiece (optional). Top hat beam. Quasi-long pulse mode.
Spectra QT	Q-switched Nd:YAG	1064 nm, 532 nm	12 J/cm ²	5-7 ns / 300 µs	Zoom handpiece, collimated handpiece. Top hat beam. Quasi-long pulse mode.
Spectra SP	Carbon Dioxide	10,600 nm	Up to 30 W	40 µs - 1000 µs	50 and 100 mm handpieces, small beam size up to 80 micron, char-free (up to 40 ms).
Mattioli Engineering					
Mattioli Pulse Two	IPL	560 – 1200 nm	30 J/cm ²	10 – 35 ms	Spot size 40 mm x 10 mm (4 cm ²); 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.
MedArt A/S					
MedArt 470	5 W Solid State Diode Pumped Laser	532 nm	Max. 1000 J/cm ²	Pulse width 10-1000 ms	Unique scanning technology for fast and uniform treatments with up to 10 x 10 mm Tx area. Optional skin cooling for improved patient comfort.
MedArt FRx	15 W CO ₂	10,600 nm		10-1000 ms	Fractional scanner system with 10 x 10 mm Tx area Adjustable energy density settings. Laser energy delivered through unique solid core fiber system.
Palomar					
StarLux 500 Platform Lux2940 Fractional Laser handpiece	2940 Laser	2940 nm	N/A	N/A	
Lux1540 Fractional Laser handpiece	1540 Laser	1540 nm	Up to 70 mJ per microbeam	1 - 500	
LuxDeepIR Fractional Infrared handpiece	Infrared Light	850-1350 nm	Up to 175 J	2.5 - 10 sec	
LuxG handpiece	Pulsed Light	500-670 nm, 870-1400 nm	Up to 70 J/cm ²	1-500	
Photo Therapeutics Ltd.					
Omnilux revive	LED	633 nm	Up to 150 J/cm ²	CW	Interchangeable treatment heads.
Omnilux plus	LED	830 nm	Up to 80 J/cm ²	CW	Interchangeable treatment heads.
Pollogen Ltd.					
Regen	TriPollar RF	N/A – frequency 1 MHz	N/A – output power 30 W	CW	Two applicators.

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Pollogen Ltd. (continued)					
Apollo	TriPollar RF	N/A – frequency 1 MHz	N/A – output power 50 W	CW	Three applicators.
Quanta System					
Matisse VT (various models)	Fractional Er:Glass	1540	Up to 250 J/cm ² per MTZ	4 - 14 ms	Contact skin cooling or cryo air system integrated with the 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, 590 - 1200, 625 - 1200 and 650 - 1200 nm.
Light B	Nd:YAG	1064, 1320	Up to 500 J/cm ² , Up to 35 J/cm ²	0.3 - 300 ms, 5 - 10 ms	
Light C	Nd:YAG	1064, 1320	Up to 500 J/cm ² , Up to 35 J/cm ²	0.3 - 300 ms, 5 - 10 ms	
	KTP Nd:YAG	532	Up to 90 J/cm ²	5 - 25 ms	
Light A* (Star)	Alexandrite / Nd:YAG	755 / 1064, 1320	Up to 120 J/cm ² / Up to 500 J/cm ² , Up to 35 J/cm ²	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 ² / Up to 500 J/cm ² , Up to 35 J/cm ² / Up to 90 J/cm ²	3-100 ms / 0.3 - 300 ms, 5 - 10 ms / 5 - 25 ms	
Q-Plus B	Nd:YAG Q-switched KTP Nd:YAG Q-switched	1064 532	Up to 45 J/cm ² Up to 20 J/cm ²	6 ns 6 ns	
Q-Plus* Star 1	Nd:YAG	1064, 1320	Up to 500 J/cm ² , Up to 35 J/cm ²	0.3 - 300 ms, 5 - 10 ms	
	Nd:YAG Q-switched KTP Nd:YAG Q-switched	1064 532	Up to 30 J/cm ² Up to 15 J/cm ²	6 ns 6 ns	
TWAIN IPL option	Pulsed Light	570 - 1200	Up to 40 J/cm ²	3 - 240 ms	
Eterna Giovinezza Plus	Pulsed Light	570 - 1200, 625 - 1200	Up to 40 J/cm ²	3 - 240 ms	
Silk Light (table top)	Pulsed Light	570 - 1200	Up to 40 J/cm ²	3 - 240 ms	
Reliant Technologies					
Fraxel SR750, Fraxel SR1500	Fiber Laser	1550	N/A	N/A	Disposable treatment tips. Intelligent Optical Tracking™ system. Ergonomic handpiece. Optional Zimmer Cryo 6 base.
Rhytec, Ltd.					
Portrait PSR ³	Non-contact Plasma Energy	N/A	1 - 4 J	4 - 16 ms	Skin regeneration and tightening, ergonomically designed handpiece, disposable standard and regional delivery nozzles, automatic calibration process, Portrait marketing materials, practice PR support, on-site training, 1 yr. limited/opt. extended warranty.
Sciton					
Profile-MP	Modular platform	Various	Up to 400 J	0.1 - 200 ms	Configurable: up to five laser modules. Scanner; smart use interface. Scanner; 30 x 30 mm Tx; integrated cooling. Scanner; 30 x 30 mm Tx; integrated cooling. 15 x 30 mm.
Profile - Contour	Er:YAG	2940 nm	45 W	0.1 - 50 ms	
Profile - ClearScan	Nd:YAG	1064 nm	Up to 400 J	0.1 - 200 ms	
Profile - ThermaScan	Nd:YAG	1319 nm	Up to 80 J	10 - 200 ms	
Profile - BBL	Pulsed Light	400 - 1400 nm	Up to 30 J	Up to 200 ms	
SharpLight					
Beamax Formax	Pulsed Light CPM DPC Forming (Dynamic Pulse Control)	580 - 950 nm 580 - 950 nm (DPC)	5 - 20 J/cm ² up to 45 J/cm ²	10 - 15 ms 10, 12, 15, 20, 25 ms (DPC)	System includes one MAXrejuvenate J/cm ² handpiece. System includes one trolley, MAXrejuvenate handpiece, thermal cooling with DPC forming. Spot size: 6.4 cm ² , 3.4 cm ² .
Syneron					
eMax / eLight SR	eIōs: Optical energy combined with RF electrical energy	580 - 980 nm	Up to 45 J/cm ² (Optical), Up to 25 J/cm ³ (RF)	Optical + RF, short/long	Applicator head included. 12 x 25 mm treatment area. No disposable costs.
eMax / eLight SRA	eIōs: Optical energy combined with RF electrical energy	470 - 980 nm	Up to 45 J/cm ² (Optical), Up to 25 J/cm ³ (RF)	Optical + RF, short/long	Applicator head included. 12 x 25 mm treatment area. No disposable costs.
eMax / eLaser WRA	eIōs: Diode combined with RF electrical energy	900 nm	Up to 50 J/cm ² (Optical), Up to 100 J/cm ³ (RF)	Optical + RF	Applicator head included. 8 x 12 mm treatment area. No disposable costs.
eMax/eLaser Matrix IR	eIōs: Diode and Bi-Polar RF	915 nm	Up to 70 J/cm ² Diode fluence, Up to 100 J/cm ³ RF fluence	Optical + RF	5 x 9 mm treatment. No disposable costs.
ThermaMedic					
ThermaClinic	Bi-polar RF, AMFLI technology	From 0.9 to 5.4 MHz (automatic)	60 W	Variable	Re-usable handpiece, digital thermometer.

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