The Gentle Pro Series

The gold standard in laser hair removal and more.

Science | Results | Trust

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Science. Results. Trust.

The GentlePro Series

Dear reader,

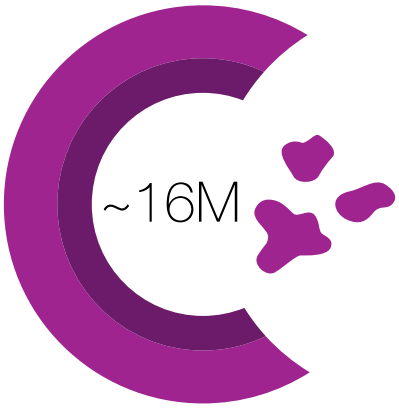
On behalf of Candela® I would like to say thank you for your interest in our Gentle Pro Series, the gold standard in laser hair removal, and more. With demand for hair removal and pigmented lesion treatments growing on a daily basis, dermatologists all over the world use the GentleLase Pro®, a 755 nm Alexandrite laser suitable for skin types I-III, the GentleYag Pro, suitable for skin types IV-VI, or the GentleMax Pro®, our most powerful device combining both lasers in one device to treat all skin types, from I to VI[1].

In this eBook, we would like to provide you with important information regarding these laser devices, from technology overview to the results clinical experts worldwide have achieved with their patients. Users should refer to the specific device user manual for complete device information including indications for use and relevant safety information.

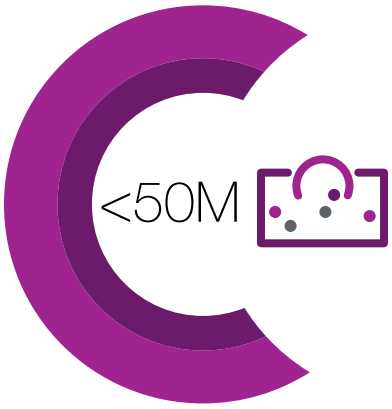
Know that when you decide to work with one or more of our devices, we'll do everything we can to provide you with the highest level of customer service possible.

That's our promise to you.

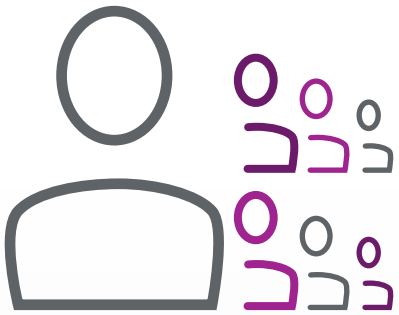
The Candela Marketing Team



An estimated 16 million
rosacea sufferers[4]



Up to 50 million
Americans with acne[5]



1 in 300

An estimated 1 in 300
infants with port wine stains[6]

- 52% of the population is considering hair removal with an aesthetic device[2]
- Up to 3 sessions for pigmented lesion treatments
- Hair removal is one of the top 3 non-surgical aesthetic procedures[3]
- Emerging male market with a 46% increase in male hair removal procedures[3]

Practice advantages.

Versatility.

Our 755 nm and 1064 nm wavelength laser technology lets you treat hair removal, as well as numerous other indications[7]. That flexibility can lead to new revenue and boost your ROI.

Proven performance.

Gentle Pro lasers have been the industry standard for two decades. That means you can confidently perform hair removal procedures with consistent results.

Unmatched support after sale.

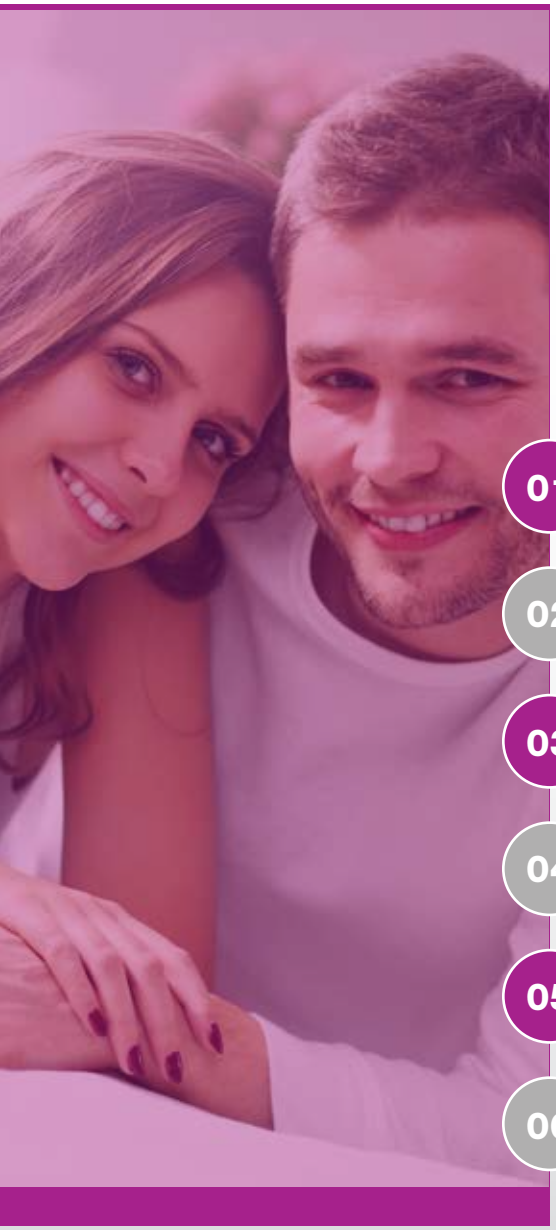
With 20+ years of expertise and 10,000+ systems installed, you can count on Candela for unmatched support, from fast customer responses to reliable repairs, as well as optimized marketing support.

Potentially high ROI treatments.

What can you treat?

For over 20 years, whenever physician practices, hair removal clinics and medical spas across the globe wanted to provide their patients with the gold standard in laser hair removal and more, they turned to the Gentle series of lasers.

Today, whatever your business needs, from hair removal to vascular lesions to pigmented lesions, the Gentle Pro series has a device that's right for you.



Dual 755 nm Alexandrite & 1064 nm Nd:YAG laser

Hair removal and so much more with the combined power and treatment capabilities of GentleLASE Pro and GentleYAG Pro[8]

01 Unwanted hair

02 Vascular lesions

03 Resistant PWS

04 Hemangioma

05 Telangiectasia

06 Diffuse redness

07 Venous lake

08 Leg veins

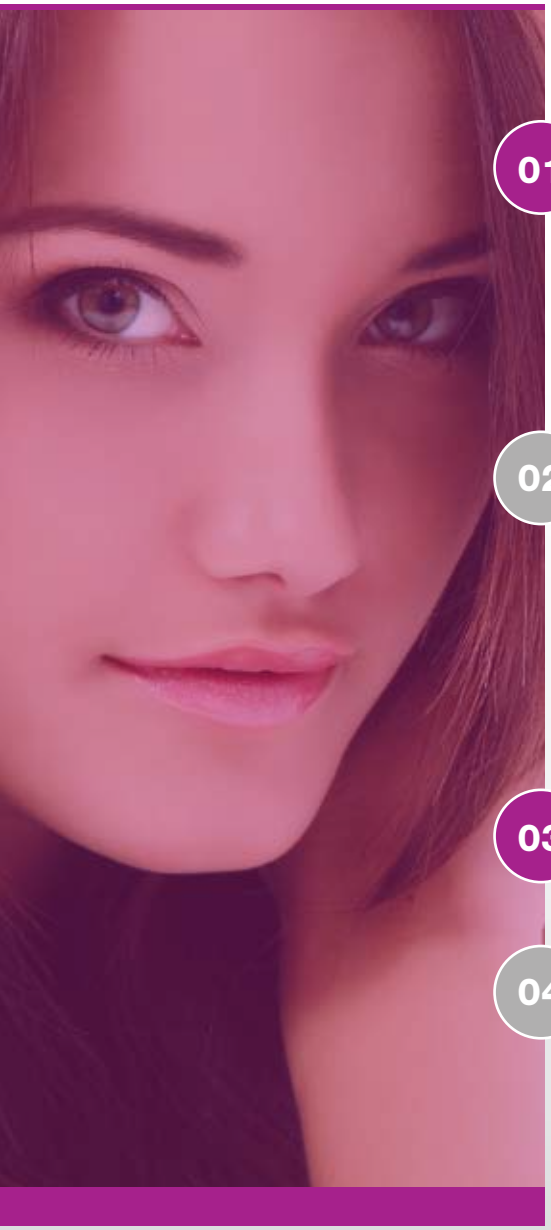
09 Pigmented lesions

10 Wrinkles

11 Onychomycosis

Patient advantages

Consistent results.



01 **Comfort.** Many patients are interested in the idea of laser hair removal but are afraid of the pain and discomfort. However, the relatively short treatment sessions combined with the dynamic cooling for added speed and protection decrease discomfort.

02 **Few sessions.** The Gentle Pro Series customisable, state-of-the-art laser procedures take a shorter time than traditional laser hair removal procedures. Combined with the large spot size, only a few sessions are needed to maximise results.[1]

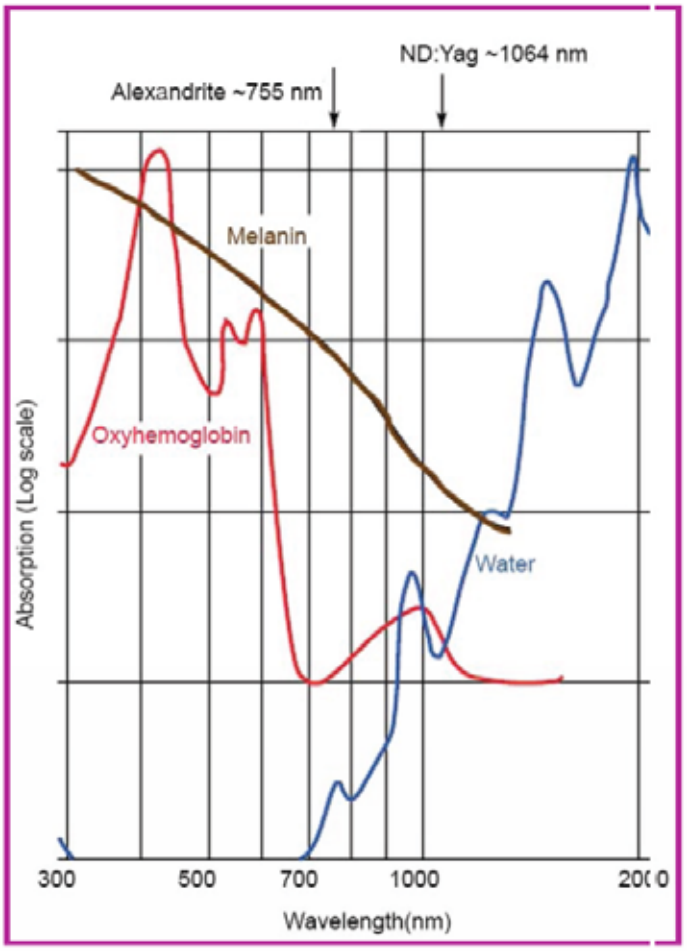
03 **Maximum treatment convenience with dual wavelengths.**

04 **Up to 80%** permanent hair reduction **after a series of treatments.***

*Individual results may vary.

Mechanism of action

Our Gentle Pro series of lasers are the gold standard for Laser Hair Removal (LHR) in all Fitzpatrick skin types. The GentleYag Pro® system is our 1064 nm Nd:YAG laser, optimal for Fitzpatrick skin types IV-VI. The GentleLase Pro® 755 nm Alexandrite laser is designed for Fitzpatrick skin types I-III[9]. The GentleMax Pro® laser is best of both worlds, combining the fast and most powerful 755 nm Alexandrite laser with the 1064 nm Nd:YAG laser for high performance treatment capabilities in terms of speed, ease-of-use, and patient satisfaction.[9]



Each Gentle Pro laser is upgradeable to enable you to provide the complete set of GentleMax Pro specifications for a single wavelength. The GentleLase Pro long pulse alexandrite laser system can be upgraded to include the 1064nm features and the GentleYAG Pro long pulse Nd:YAG laser can be upgraded to include 755nm features.

Results | Hair Removal

Before

After

Photos courtesy of Kathleen P. Hutton, M.D.

Before

After

Photos courtesy of Marcelle C. Kutun, M.D.

Before

After

Photos courtesy of Konika Patel Schallen, M.D.

Photos are unretouched. Individual results may vary.

Results | Vascular Lesions

Before

After

Photos courtesy of Jill S. Waibel, M.D.

Before

After

Photos courtesy of Jill S. Waibel, M.D.

Before

After

Photos courtesy of Konika Patel Schallen, MD

Photos are unretouched. Individual results may vary.

Results | Vascular Lesions

Before

After

Photos courtesy of Jonathan S. Crane, D.O.

Before

After

Photos courtesy of Konika Patel Schallen, MD

Before

After

Photos courtesy of Christine Mansur, M.D.

Photos are unretouched. Individual results may vary.

Results | Venous Lake and Leg Veins

Before

After

Photos courtesy of L. Polla, M.D.

Before

After

Photos courtesy of E.V. Ross, M.D.

Before

After

Photos courtesy of Marguerite Germain, M.D.

Photos are unretouched. Individual results may vary.

Results | Hemangioma, Telangiectasia and Diffuse Redness

Before

After

Photos courtesy of M. Chasin, M.D.

Before

After

Photos courtesy of Steven Eubanks, M.D.

Before

After

Photos courtesy of Stephen W. Eubanks, M.D.

Photos are unretouched. Individual results may vary.

Don't take our word. Take it from our customers.

Candela has taken the best hair removal laser and made it better. It's faster, it gives you more options with longer pulse duration, the interface is easier to use and the sliders make it easier to change the spot size. It's just improving an already great product.

Stephen W. Eubanks, MD, Dermatologist,
Denver, CO, USA

The GentleYAG with DCD has been shown to be effective in removing hair from dark skin type patients as well as light skin type patients.

Elizabeth Rostan, MD, Dermatologist,
Charlotte, NC, USA

To be able to have a laser that's able to achieve multiple targets effectively is clearly vital so that you don't have to buy multiple lasers.

Jason Lupton, MD, Dermatologist,
San Diego, CA, USA

The ability to upgrade Candela's single wavelength Pro-U systems to the dual wavelength GentleMax Pro configuration is an attractive option for a growing practice.

Shlomit Halachmi, MD, Dermatologist,
Washington, D.C., USA

I have 20-30 different lasers, and a lot of these do hair removal, but I keep going back to the GentleLase. It continues to be my go-to laser for hair removal, no matter how many hair removal lasers I try.

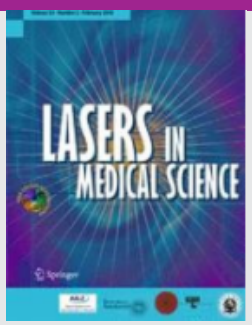
Thomas E. Rohrer, MD, Dermatologist,
Chestnut Hill, MA, USA

Summary of peer-reviewed articles

1064-nm Nd:YAG laser ameliorates LL-37-induced rosacea-like skin lesions through promoting collagen remodeling in BALB/c mice

Kim M, Kim J, Jeong SW, Jo H, Park HJ. Lasers Med Sci. 2018 Feb;33:393-397

STUDY DETAILS



- 40 7-week old female BALB/c mice were injected intradermally twice a day for 2 days with LL-37 to induce rosacea-like clinical features.
- 15 of the 40 mice were treated with LPND (GentleMax): 35 J/cm^2, 50-ms pulse duration, and 10-mm spot size.
- After 48 hours, the excised skin sample was stained with H&E and with Masson's trichrome stain for collagen.

RESULTS

- LPND treatment significantly reduced erythema and telangiectasia.
- LPND treatment increased dermal collagen production.
- Levels of Type I collagen, TGF-ß, and MMP-1 mRNA were significantly higher in LPND-treated mice than in untreated mice

Nd:YAG and pulsed dye laser therapy in infantile haemangiomas: a retrospective analysis of 271 treated haemangiomas in 149 children

Hartmann F, et al. J Eur Acad Dermatol Venereol. 2017 Aug;31(8):1372-1379

STUDY DETAILS

- 149 infants (107 girls, 42 boys, median age 24 weeks, range 1-533 weeks) with 1 to 15 infantile haemangiomas (total 271) on the face and/or body were treated:
- Combined 1064nm GentleYAG and 595nm Vbeam pulsed dye laser therapy was applied in 187 of 271 IH (69.0%)
- 595nm Vbeam only for 84 superficial lesions (31.0%)
- 1 to 7 laser treatments (mean 1.74)

Independent evaluation (3 physicians) at 4-6 weeks after the last treatment, using a 4-point published clearance scale 0–25% (I) to 76–100% (IV)

RESULTS

- Moderate or strong (III/IV) improvement was observed in 92.4% of all IH treated
- No AE were observed in the majority of treatments (272/472, 57.6%)
- Most frequent AE were blistering (21.2% of lesions), followed by crusts (8.3%)
- Combined Nd:YAG/PDL therapy is effective to treat IH of various sizes, morphologic classifications, in any phase of development, and in all ages

Summary of peer-reviewed articles

Treatment of Compound Melanocytic Nevus Using a Long-pulsed 755-nm Alexandrite Laser

Young Koo Kim, Sung Bin Cho. Medical Lasers. 2013 June.

STUDY DETAILS

- 16-year-old Korean male with darkly pigmented mammillated compound melanocytic nevus
- 4 sessions of long-pulsed 755-nm alexandrite laser (GentleMax) with 35 J/cm2, 6-mm spot size, a 3-msec pulse width and 2 passes
- Global Aesthetic Improvement Scale and physician assessments using a 4-point severity scale.

RESULTS

- Marked clinical improvement after 2nd treatment
- Compound nevus disappeared at 1 month after 4 treatments
- Crusting for 5-7 days after treatment
- No side effects of post-therapy blister formation, secondary bacterial or viral infection, post-therapy prolonged erythema, dyschromia, or scarring.

A randomized side-by-side study comparing alexandrite laser at different pulse durations for port wine stains

Carlsen BC, Wenande E, Erlendsson AM, et al. Lasers Surg Med. 2017 Jan;49:97-103

STUDY DETAILS

- 16 adults (6 men, 10 women) aged 27–78 (mean 50.3) with Fitzpatrick Skin Type I-III.
- 14 PWS previously PDL-treated with deep red (n=4), purple macular (n=5) and purple hypertrophic (n=7) PWS.
- PWS subdivided to 3 test areas randomized to 755nm Alex laser (GentleMax): 8mm spot size (DCD 60/40); pulse durations of 3ms (fluence 40–65 J/cm^2), 5ms (fluence 45–70 J/cm^2) or 10ms (fluence 50–80 J/cm^2) - 4th test spot untreated control.
- PWS clearance evaluated on a scale of 0=no response to 4=excellent response (75–100% clearance).

RESULTS

- Alex laser at 3, 5, and 10 ms pulse durations demonstrated significant clearance compared to untreated controls ($P<0.001$).
- 3ms pulse duration had higher clearance rates than 5ms or 10ms and a better safety profile.

Summary of peer-reviewed articles

Therapeutic efficacy of long-pulsed 755-nm alexandritelaser for seborrheic keratoses

Kim YK, Kim DY, Lee SJ, et al. J Eur Acad Dermatol Venereol. 2014 Aug

STUDY DETAILS

- 13 Korean patients (11 males, 2 females, mean age 59.3 years, range 33–77; Fitzpatrick skin types III and IV) with 216 seborrheic keratoses
- 1 or 3 sessions of long-pulsed 755-nm alexandrite laser (GentleMax) with 35 J/cm2, 6-mm spot size, a 3-msec pulse width and 1-2 passes, DCD cooling
- Blinded evaluation (3 dermatologists) at 2 months after the last treatment, using a 1- 4 severity grading score.

RESULTS AT 1 MONTH AFTER TREATMENT

- Mean objective improvement score of 3.4±0.7 (Grade 3=Marked Improvement)
- Type of lesion impacted number of treatment sessions needed, in particular, popular lesions needed more treatment than macular lesions
- Objective improvement score was not affected by the type of the seborrheic keratosis (Table 1)
- Most of the lesions became crusted within a few days after the laser treatment and spontaneously peeled off within 7 days.

Summary of peer-reviewed articles

Efficacy of the long-pulsed 1064-nm neodymium: yttrium aluminum-garnet laser (LPND) (rejuvenation mode) in the treatment of papulopustular rosacea (PPR): A pilot study of clinical outcomes and patient satisfaction in 30 cases

Lee JH, Kim M, Bae JM, et al. J Am Acad Dermatol. 2015 Aug

STUDY DETAILS

- 30 Korean subjects (24 females, 6 males) with Fitzpatrick Skin Types IV-V and papulopustular rosacea (PPR)
- Group A: 22 patients with mild-to-moderate PPR treated with laser alone
- Group B: 8 patients with severe PPR treated with laser + doxycycline (100 mg twice daily)
- 3 full-face Nd: YAG GentleMax treatments (40 to 50 J/cm2, 50 msec pulse duration and a 10-mm spot size, DCD cooling) at 4-week intervals
- Blinded evaluation (3 dermatologists) at 4 weeks after the last treatment, using a 4- point severity grading system for rosacea

RESULTS AT 1 MONTH AFTER TREATMENT

- Excellent to good overall improvement was seen in 77.3% (17 of 22) of patients in Group
- A and 87.5% (7 of 8) of patients in Group B

Significant decrease in papule/pustule activity and improvement in erythema score.

Summary of peer-reviewed articles

Hypertrichotic Becker's nevi treated with combination 1,550 nm non-ablative fractional photothermolysis and laser hair removal

Balaraman B, Friedman PM. Lasers Surg Med. 2016 Apr;48:350-3

CASE STUDY 1

- 43-year-old male patient with Fitzpatrick Skin Type III treated for 8x11-cm2 brown patch with terminal hairs (Becker's nevi) on the arm and elbow.
- 2 laser hair removal treatments (8-week interval) with 1,064-nm LPND (GentleMax): 18mm spot size, 3–5 ms, fluence 10 J/cm2 , DCD (30/20).
- 8 NAFR treatments (4 to 8-week intervals) using the 1,550-nm erbium-doped laser (Fraxel DUAL): 15mm, 9–40 mJ, 14–20% coverage, cold-air cooling 5, 8 passes.
- >95% clearance by independent clinical and photographic assessment.

CASE STUDY 2

- 28-year-old female patient with FST IV treated for large brown patch with terminal hairs (Becker's nevi) on the back.
- 3 laser hair removal treatments (4 to 8-week intervals) with 1,064-nm LPND (GentleMax): 18mm spot size, 20 ms, fluence 14 J/cm^2 , DCD (40/40).
- 5 NAFR treatments (4 to 8-week intervals) using the 1,550-nm erbium-doped laser (Fraxel DUAL): 15mm, 30–45 mJ, 20% coverage, total 1.74–2.10 kJ, cold-air cooling 5, 8 passes.
- >75% clearance by independent clinical and photographic assessment at 3-month follow-up.

Nd:YAG laser hair removal in Fitzpatrick skin types IV to VI

Chan CS, Dover JS. J Drugs Dermatol. 2013 Mar

STUDY DETAILS

- Use of a 1,064-nm, long-pulsed Nd:YAG laser (GentleYAG) for darkly pigmented patients (Fitzpatrick skin types IV-VI)
- Start with a pulse duration of 3 msec, a 12-mm spot size, and fluences of 24 to 32 J/cm^2, depending on skin type, and DCD cooling device. Fluence can be increased.
- Hair reduction is noticeable after 1st treatment
- More significant after a series of treatments, depending on body area (3-6 for arms and legs). Typical response shown in Figure 1.

System Specifications

SYSTEM SPECIFICATIONS		
Laser Type	Alexandrite	Nd:YAG
Wavelength	755 nm	1064 nm
Repetition	Up to 10 Hz	Up to 10 Hz
Max Delivered Energy	53 Joules (J)	80 Joules (J)
Pulse Duration	0.250 -100 ms	
Spot Sizes	6 mm, 8 mm, 10 mm, 12 mm, 15 mm, 18 mm	
Specialty Delivery System Optional Spot Sizes	Small - 1.5, 3, 5 and 3 x 10 mm Large - 20, 22 and 24 mm	
Beam Delivery	Lens-coupled optical fiber with handpiece	
Pulse Control	Finger switch, foot switch	
Dimensions	107 cm H x 46 cm W x 69 cm D (42" x 18" x 27")	
Weight	118 kg (260 lbs)	
Electrical	200-240 VAC, 50/60 Hz, 30 A, 4600 VA single phase	

Patented Dynamic Cooling Device Integrated controls, cryogen container and handpiece with distance gauge	
Cryogen	HFC 134a
DCD Spray Duration	User adjustable range: 10-100 ms
DCD Delay Duration	User adjustable range: 20-100 ms
DCD Post-Spray Duration	User adjustable range: 10-50 ms

ALEXANDRITE FLUENCE	
Spot Size (mm)	Fluence (0.25 ms to 100 ms)
3	40 to 400 J/cm^2
3 x 10	10 to 200 J/cm^2
5	9 to 40 J/cm^2
6	6 to 150 J/cm^2
8	6 to 100 J/cm^2
10	6 to 60 J/cm^2
12	10 to 40 J/cm^2
15	6 to 30 J/cm^2
18	6 to 20 J/cm^2
20	5 to 16 J/cm^2
22	4 to 13 J/cm^2
24	3 to 11 J/cm^2

ND:YAG FLUENCE	
Spot Size (mm)	Fluence (0.25 ms to 100 ms)
1.5	300 to 520 J/cm^2
3	130 to 400 J/cm^2
3 x 10	80 to 300 J/cm^2
5	9 to 55 J/cm^2
6	6 to 200 J/cm^2
8	6 to 150 J/cm^2
10	6 to 100 J/cm^2
12	10 to 70 J/cm^2
15	6 to 44 J/cm^2
18	6 to 30 J/cm^2
20	5 to 24 J/cm^2
22	4 to 20 J/cm^2
24	3 to 16 J/cm^2

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8. Comparison of long-pulsed alexandrite and Nd:YAG lasers, individually and in combination, for leg hair reduction: an assessor-blinded, randomized trial with 18 months of follow-up. Davoudi SM, Behnia F, Gorouhi F, Keshavarz S, Nassiri Kashani M, Rashighi Firoozabadi M, Firooz A. Arch Dermatol. 2008 Oct;144(10):1323-7.
9. Comparing 18- versus 12-mm spot size in hair removal using a Gentlelase 755-nm alexandrite laser. Nouri K, Chen H, Saghari S, Ricotti CA Jr. Dermatol Surg. 2004 Apr;30(4 Pt 1):494-7

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