# Vbeam® Prima

## Technology You Trust.
## Innovation You Need.

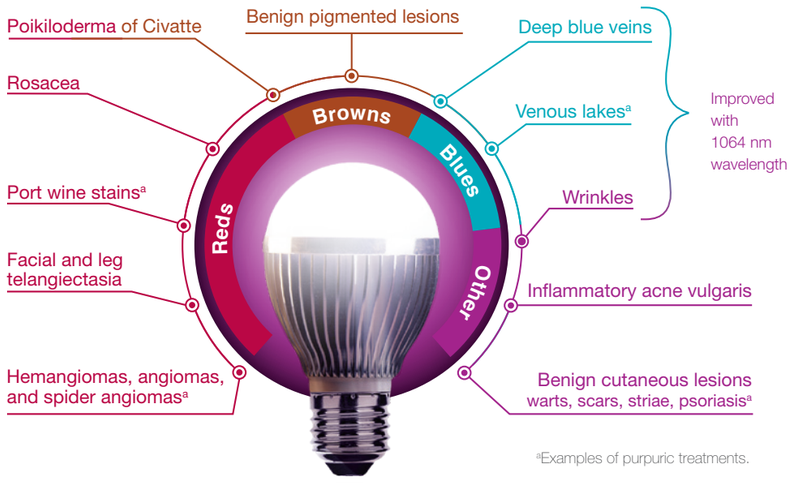

CANDELA™

Science. Results. Trust.

# Trustworthy technology. Thoughtfully designed for vascular treatment and more.

## Versatile treatments

The Vbeam® Prima device is a highly efficient pulsed-dye laser (PDL) used by healthcare providers all over the world to treat a variety of indications for both face and body, including benign vascular and pigmented lesions, with high patient tolerability and a low incidence of side effects.[1-12]

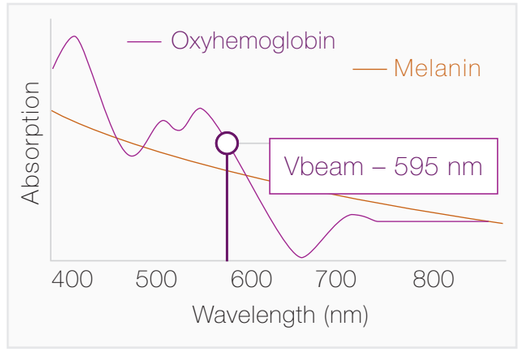




[a]Examples of purpuric treatments.

# Two wavelengths, more treatment parameters

## Proprietary 595 nm wavelength

The 595 nm wavelength deeply penetrates the skin to reach targeted blood vessels.[4] Its energy is absorbed by oxyhemoglobin to coagulate and clear vessels with more tolerability and fewer instances of melanin absorption.[13]



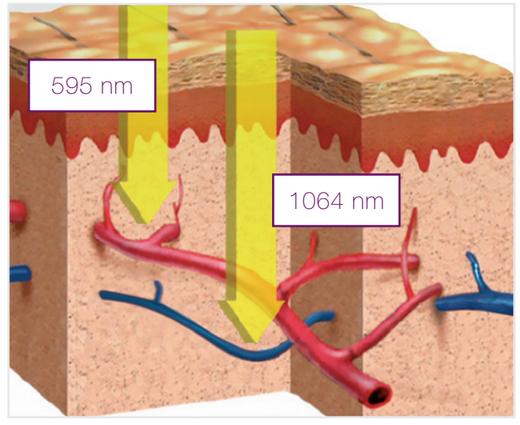

## 8 micropulses

8 micropulses allow the physician to treat with or without purpura, increasing treatment success or reducing patient downtime when required.

## Additional 1064 nm wavelength

**Treat deep blue leg veins, venous lakes, and wrinkles[12]**

- Treats blue veins across face and body
- Minimises the appearance of wrinkles




## A legacy of innovation

**1983**
**Anderson/Parrish**
MGH/Harvard

**1988**
**SPTL-1**
577 nm, first FDA-cleared PDL

**1994**
**SPTL-1b**
585 nm

**1996**
**ScleroPlus**
585 nm, 590 nm, 595 nm, 600 nm

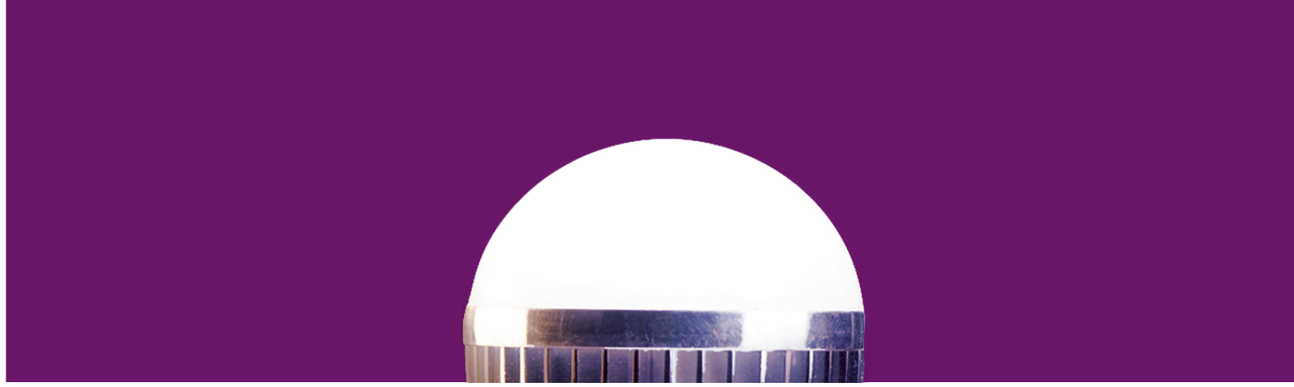
SPTL, selective photothermolysis.

**2000**
**Vbeam Classic**
595 nm

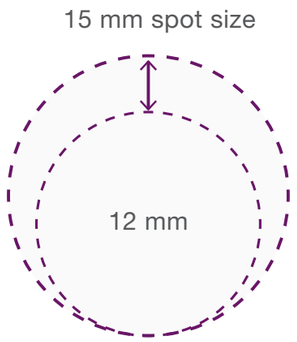
**2006**
**Vbeam Perfecta®**
595 nm
8 micropulses


**2018**
**Vbeam® Prima**
595 nm and 1064 nm
8 micropulses

# New features that benefit both the provider and patient experience



## Achieve greater results in less time




### Larger max treatment spot size and greater max energy with 595 nm

- Faster, more efficient treatments
- A treatment that requires 100 pulses with a 12 mm spot size can require as few as 64 pulses with a 15 mm spot size

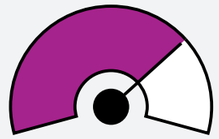
| | VBEAM® PERFECTA | VBEAM® PRIMA |
|---|---|---|
| Maximum energy | 8 J | **12 J** |
| Maximum spot size | 12 mm | **15 mm** |
| Area covered | 1.13 $cm^2$ | **1.77 $cm^2$** |
| Fluence at 12mm | 7.00 $J/cm^2$ | **9.75 $J/cm^2$** |
| Fluence at 15mm | - | **6.75 $J/cm^2$** |

**Up to 50% more power**

## EverCOOL

### Cryogen-based Dynamic Cooling Device™ (DCD™) and EverCool™ contact cooling options

- Two types of cooling for maximum versatility and epidermal protection
- DCD™ scales with fluence to automatically administer consistent epidermal protection



### Smart dye life management

- Dye life meter provides data on remaining dye levels
- Avoid unexpected treatment interruptions from dye loss
- Allows user to schedule preventative maintenance

**Once-daily system calibration per wavelength[b]**

Device is patient and treatment ready for the entire day, reducing downtime between patients; no need to recalibrate when changing spot sizes or fluences

**Zoom handpiece**

A versatile handheld applicator that allows for very targeted spot size adjustments in increments as small as 0.5 mm

**Wi-Fi connectivity**

Accurate remote service diagnostics for faster equipment servicing

**Guided user interface**

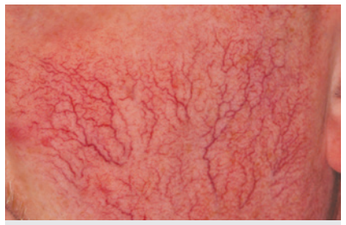
Intuitive, easy-to-use software with quick access to saved, favourite treatment settings

[b]Auto-calibration on start up.

# Powerful results begin with Vbeam® Prima Platform

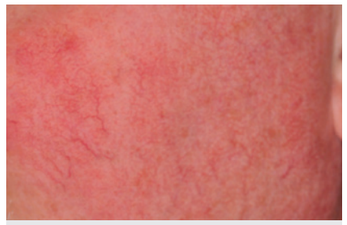
**The Vbeam® Prima Platform is the trusted, proven PDL across indications**[14]

## Telangiectasia



Before

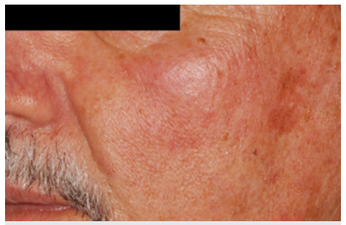
3 months post Vbeam Prima treatment.
Photos courtesy of E. Victor Ross, MD.



After*

3 months post Vbeam Prima treatment.
Photos courtesy of E. Victor Ross, MD.

## Pigmentation



Before

3 months post Vbeam Prima treatment.
Photos courtesy of E. Victor Ross, MD.


After*

3 months post Vbeam Prima treatment.
Photos courtesy of E. Victor Ross, MD.

## Diffuse Redness

Before

3 months post Vbeam Prima treatment.
Photos courtesy of E. Victor Ross, MD.

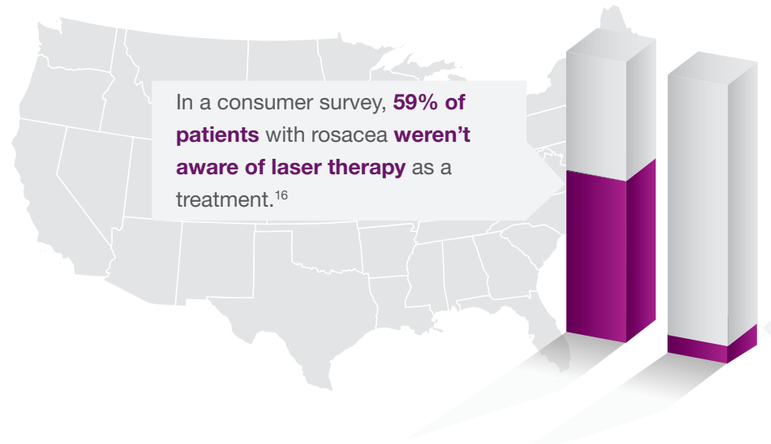
After*

3 months post Vbeam Prima treatment.
Photos courtesy of E. Victor Ross, MD.

*All photos are unretouched. Individual results may vary.

# Demand the best for your patients

An estimated 16 million people in the United States suffer from rosacea[15]



In a consumer survey, **59% of patients** with rosacea **weren't aware of laser therapy** as a treatment.[16]

**Only 8%** of surveyed patients said they **had undergone laser therapy** as part of their rosacea treatment plan.[16]

## Significant improvements in rosacea symptoms with Vbeam® Prima Platform

In a clinical study, rosacea symptoms were significantly reduced from moderate to mild.[17,18]

- ✓ Difficult-to-treat erythema was reduced from severe to mild
- ✓ 84% of patients had >40% rosacea improvement


of patients reported being very satisfied with results[18]

Before

After*

2 months post four treatments of Vbeam Prima.
Photos courtesy of Eric F. Bernstein, MD, MSE.

## Minimal adverse side effects reported[17]

On a scale of 1 to 10 (10=max), patients reported an average pain score of 5.6 ± 1.8. Most patients reported side effects such as mild edema, mild to moderate erythema, and mild to moderate purpura. These effects resolved within a few days to a week after treatment without intervention.

*All photos are unretouched. Individual results may vary.

# Vbeam® Prima

Technology You Trust.
Innovation You Need.

| SYSTEM SPECIFICATIONS[c] | |
|---|---|
| Laser wavelengths | PDL: 595 nm<br>Nd:YAG laser: 1064 nm |
| Laser pulse repetition rate | PDL: Up to 1.5 Hz<br>Nd:YAG laser: Up to 10 Hz |
| Laser pulse duration | PDL: 0.45-40 ms 8 micropulses technology<br>Nd:YAG laser: 0.5-60 ms |
| Maximum energy | PDL: 12 J<br>Nd:YAG laser: 45 J |
| Method of optical output | Lens-coupled optical fiber with user-selectable spot sizes |
| Networking method | Wi-Fi |
| Dimensions (H x W x D) | 53 x 20 x 33 in / 135 x 51 x 84 cm |
| Weight | 280 lbs / 127 kg |
| Electrical requirements | 220-240 VAC, 24 A max, 50/60 Hz, single phase |
| **Patented Dynamic Cooling Device (DCD™)**<br>Integrated controls, cryogen container, and handpiece with distance gauge | |
| Cryogen | HFC 134a |
| DCD spray duration | User-adjustable range: Off, 20-100 ms |
| DCD delay duration | User-adjustable range: 10-150 ms |
| DCD post-spray duration | User-adjustable range: Off, 10-50 ms |
| Beam spot sizes | 1-5, 3-15 mm Zoom handpiece<br>3 x 10 mm elliptical spot attachment |
| **EverCool Contact Cooling**<br>User-controlled, adjustable sapphire cooling tip for use pre, during, and post pulse | |
| Temperature range | 10°C-20°C |
| Beam spot sizes | 3-15 mm Zoom handpiece |

- Large 15 mm spot size and up to 50% greater power at 12 J with 595 nm - for faster, more efficient treatments
- Once-daily system calibration per wavelength[b] - for less downtime between treatments, and more efficient treatments when using a variety of settings
- Smart dye life management - for real-time data on remaining dye levels
- 1064 nm wavelength - for deep blue vessel clearance and wrinkle reduction
- Cryogen-based DCD™ and EverCool contact cooling options - for maximum epidermal protection and treatment versatility

**For more information** about how the Vbeam Prima system may help achieve your practice goals, contact your local Candela sales professional or visit **candelamedical.com**

[b]Auto-calibration on start up.
[c]System specifications subject to change without notice.

References. **1.** Vbeam 510(k) clearance (K183452), January 2004. **2.** Vbeam 510(k) clearance for pigmented lesion handpiece accessory (K183452), July 2005. **3.** Bernstein EF, Kligman A. Rosacea treatment using the new-generation, high-energy, 595 nm, long pulse-duration pulsed-dye laser. Lasers Surg Med. 2008;40(4):233-239. **4.** Woo SH, Ahn HH, Kim SN, Kye YC. Treatment of vascular skin lesions with the variable-pulse 595 nm pulsed dye laser. Dermatol Surg. 2006;32(1):41-48. **5.** Chapas AM, Eickhorst K, Geronemus RG. Efficacy of early treatment of facial port wine stains in newborns: a review of 49 cases. Lasers Surg Med. 2007;39(7):563-568. **6.** Jasim ZF, Woo WK, Handley JM. Long-pulsed (6-ms) pulsed dye laser treatment of rosacea-associated telangiectasia using subpurpuric clinical threshold. Dermatol Surg. 2004;30(1):37-40. **7.** Jørgensen GF, Hedelund L, Hædersdal M. Long-pulsed dye laser versus intense pulsed light for photodamaged skin: a randomized split-face trial with blinded response evaluation. Lasers Surg Med. 2008;40(5):293-299. **8.** Halachmi S, Israeli H, Ben-Amitai D, Lapidoth M. Treatment of the skin manifestations of hereditary hemorrhagic telangiectasia with pulsed dye laser. Lasers Med Sci. 2014;29(1):321-324. **9.** Yu W, Ma G, Qiu Y, et al. Prospective comparison treatment of 595-nm pulsed-dye lasers for virgin port-wine stain. Br J Dermatol. 2015;172(3):684-691. **10.** Galeckas KJ, Ross EV, Uebelhoer NS. A pulsed dye laser with a 10-mm beam diameter and a pigmented lesion window for purpura-free photorejuvenation. Dermatol Surg. 2007;34:1-6. **11.** Madan V, Ferguson J. Using the ultra-long pulse width pulsed dye laser and elliptical spot to treat resistant nasal telangiectasia. Lasers Med Sci. 2010;25(1):151-154. **12.** Indications for 1064 nm wavelength. Candela, data on file. **13.** Bernstein EF. The pulsed-dye laser for treatment of cutaneous conditions. G Ital Dermatol Venereol. 2009;144(5):557-572. **14.** Ross EV. Vbeam Prima before and after photos. Candela, data on file. **15.** National Rosacea Society website. https://www.rosacea.org/patients/index.php. Accessed November 8, 2017. **16.** Consumer rosacea laser attitude and behavior exploratory: final report. September 7, 2017. BuzzBack Market Research. **17.** Bernstein EF, Schomacker K, Paranjape A, Jones CJ. Pulsed dye laser treatment of rosacea using a novel 15 mm diameter treatment beam. Lasers Surg Med. 2018;doi:10.1002/lsm.22819. **18.** Bernstein EF, Schomacker K, Paranjape A, Jones CJ. Pulsed dye laser treatment of rosacea using a novel 15 mm spot size. Candela, data on file.

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