



VariLite™ System

Specifications

Treatment Laser:	Diode and diode pumped frequencies —doubled solid state
Wavelengths:	940 nm, 532 nm
Energy Density:	940 nm: 900 J/cm ² 532 nm: 950 J/cm ²
Pulse Duration:	5–100 ms
Repetition Rate:	Single pulse to 15 Hz for handpieces Single pulse to 50 Hz with ScanLite ^{XP} scanner
Spot Sizes:	0.7 mm, 1.0 mm, and 2.0 mm 1.4 mm and 2.8 mm (optional) 7 mm, 10 mm, and 14 mm—ScanLite ^{XP}
Dimensions:	7.5" H x 12" W x 12" D (19 cm x 30 cm x 30 cm)
Weight:	20 pounds (9 kg)
Electrical:	90–240 VAC, 50/60 Hz <200 W in standby <550 W maximum



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Photos courtesy of Kevin Keen, M.D., Albert Nemeth, M.D., and Joe Niamtu, M.D.



IRIDEX

The beauty of precision™

AESTHETICS



VariLite™ Dual Wavelength Laser System

The Complete Skin Lesion Laser Solution



Dual-Wavelength Versatility, Single-System Solution

For the Precision Treatment of Vascular,
Pigmented, and Cutaneous Lesions

- Combines reliability with true portability, efficient performance, and clinical versatility
- Ensures easy toggling between 532 nm and 940 nm wavelengths for optimal individualized outcomes
- Supports treatment of all Fitzpatrick skin types from I to VI
- Offers longer pulse durations for purpura-free treatments
- Eliminates the need for special electrical or cooling considerations
- Highly economical acquisition and operation price with no disposables
- Offers easy setup and operation with user-friendly controls



Applications

Vascular lesions

- Telangiectasia
- Rosacea
- Cherry angiomas
- Spider angiomas
- Venous lakes
- Leg veins
- Port wine stains
- Neovascularization

Pigmented lesions

- Lentigines
- Dermatitis papulosis nigra
- Poikiloderma of Civatte
- Freckles
- Café-au-lait stains
- Melasma

Cutaneous lesions

- Verruca
- Keratoses
- Skin tags

Acne vulgaris





ScanLite^{XP}™ Scanner Computer Pattern Generator with Integrated Controls

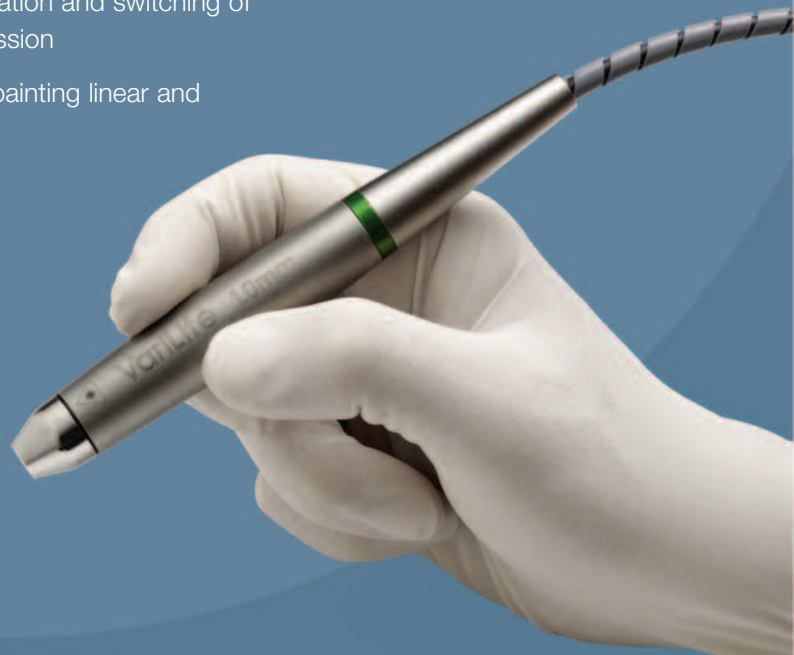
The lightweight, ergonomically designed ScanLite^{XP} is ideal for rapid, full-face treatments to improve the appearance of blemishes, producing a more uniform skin texture and tone. It is also designed for the treatment of large-area lesions such as poikiloderma of Civatte, port wine stains, and rosacea.

Laser Treatment for Large-Area Vascular and Pigmented Lesions

- Enhances the capabilities of the VariLite laser system
- Allows rapid delivery of MicroSpot™ exposures with controlled spacing over large treatment areas
- Leaves untreated zones between exposures, which act as thermal dissipation volumes that become healing centers for maximum safety and minimum downtime
- Utilizes a 532 nm laser wavelength that is selectively absorbed by oxyhemoglobin in the papillary dermis and by melanin at the D/E junction
- Provides selective injury to tissue columns to a depth of 250 to 450 μm during laser facial treatments
- Allows treatment of vascular lesions to a depth of 1.2 mm

Ergonomic, Lightweight, Dual-Wavelength Handpiece

- Versatile selection of spot sizes, including 0.7 mm, 1.0 mm, 1.4 mm, 2.0 mm, and 2.8 mm, focuses treatment on the target area with no collateral damage to surrounding tissue
- Allows precise control of the treatment location and switching of laser wavelengths during the treatment session
- Provides ideal performance for tracing or painting linear and large-area lesions





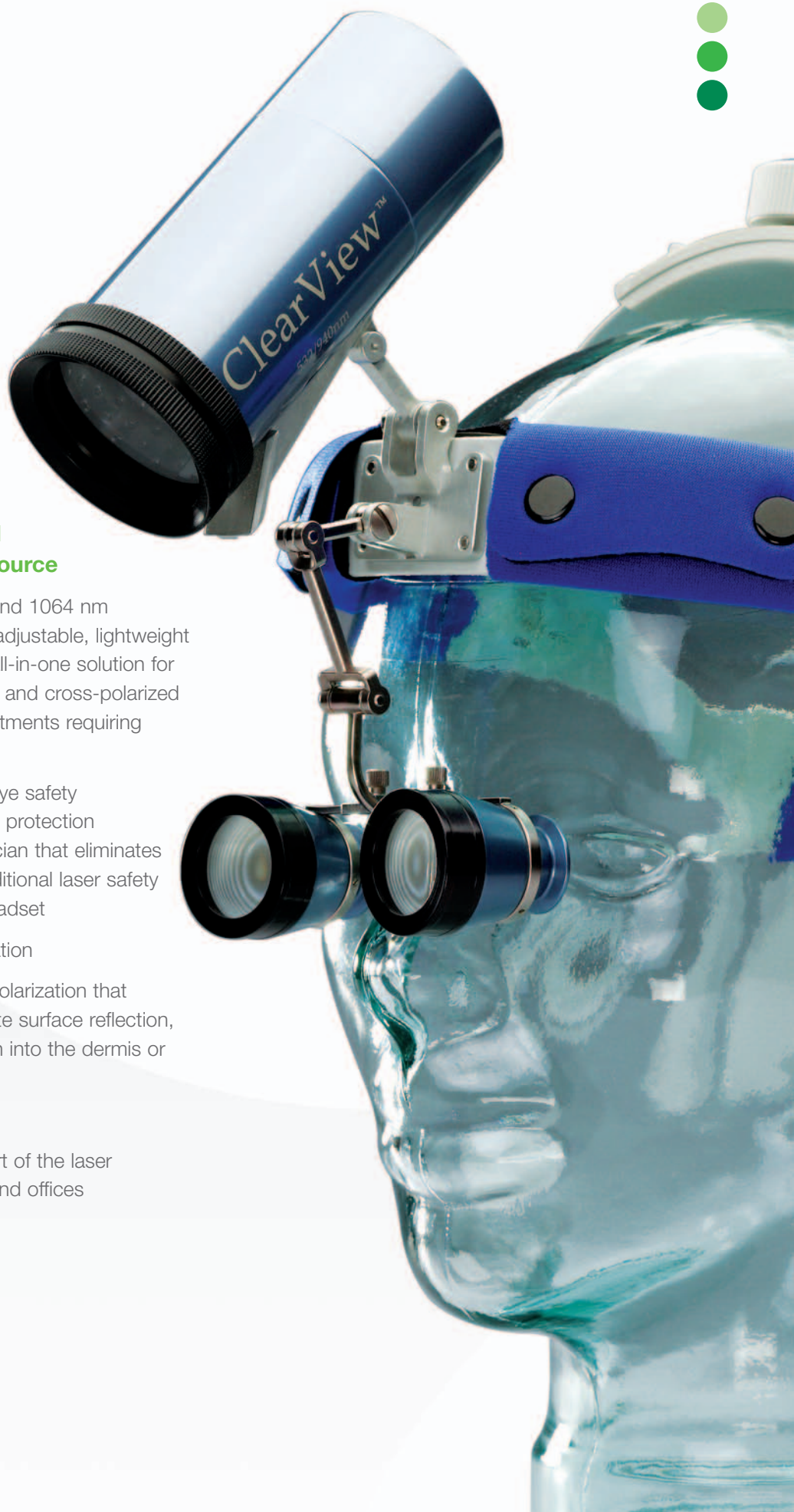
ClearView™ 3 Polarized Head-Mounted Light Source

Offering 532 nm, 940 nm, and 1064 nm wavelength protection, the adjustable, lightweight ClearView 3 headset is an all-in-one solution for eye safety, magnified vision, and cross-polarized illumination during laser treatments requiring enhanced visualization.

- Features integrated eye safety filters to provide laser protection for the treating physician that eliminates the need to wear additional laser safety glasses under the headset
- Offers 2.3X magnification
- Includes adjustable polarization that can be set to eliminate surface reflection, for better visualization into the dermis or of surface structures

Carry Case

Permits convenient transport of the laser between treatment rooms and offices



The clinical advantages of dual laser wavelengths

To maximize treatment outcome, the laser wavelength should be chosen to best penetrate and interact with the target structure while ensuring optimal patient comfort and minimal side effects.

High-absorption 532 nm treatments

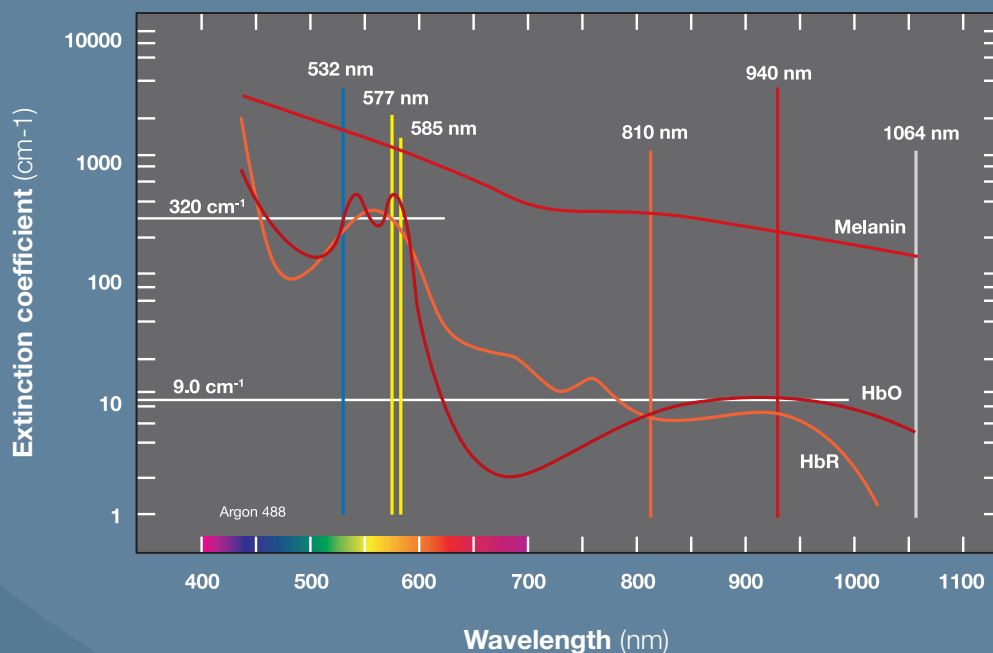
- Treatment of superficial and small-diameter vessels is preferred with laser wavelengths, such as 532 nm, that are strongly absorbed by oxyhemoglobin
 - Vessels can be heated to clinical response temperatures with minimal incident energy
- The preferred choice for the treatment of pigmented lesions

Moderate-absorption 940 nm treatments

- The 940 nm laser wavelength penetrates heat more deeply and more uniformly through larger-diameter vessels
 - The longest laser wavelength for which reduced oxyhemoglobin has good absorption
 - The optimal near-infrared laser wavelength with the highest oxyhemoglobin absorption coefficient

Extinction Coefficient vs. Laser Wavelength

Adapted from Mainster, Bursell; *Ophthalmology* 1986;93:952-958

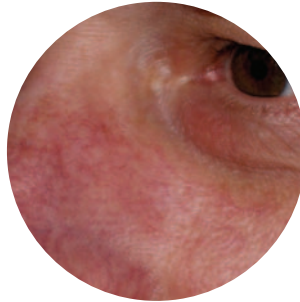
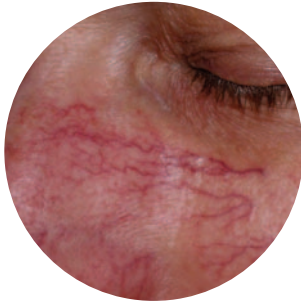
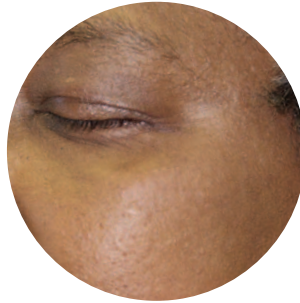


Successful Patient Outcomes

Before 532 nm



After 532 nm



Before 940 nm

After 940 nm

