

Troubleshooting

Before returning the Veinlite LED to TransLite for repair, please call or e-mail to obtain a return merchandise number and shipping information. No refunds for unauthorized shipping.

- LED Failure

The light source contains LEDs designed to have an excess of 100,000 hours of operation. They should not require replacement during the life of the Veinlite LED. If an LED fails, the unit is designed to continue operating using the remaining LEDs, with only a slight decrease in intensity of light output. In case of multiple LED failure, please contact TransLite to arrange return for repair. Do not attempt to replace any LEDs.

- No Light from any LEDs

Recharge the battery and try turning on the unit again. During charging, make sure the red light [3] comes on to indicate that the battery is charging and the green light [4] comes on to signal that the battery is fully charged. If the red light does not stay on, check the battery and reseat the battery plug in the unit. In the event that the battery is fully charged but the unit does not turn on, call TransLite for assistance.

- Battery Fails to Charge

If the battery fails to charge and the Veinlite LED is over two years old, please replace the battery with a new one. You can order a replacement battery from TransLite via our web site, www.veinlite.com, or by calling TransLite or its authorized dealer.




Warranty

The Veinlite LED has a one year parts and labor warranty. In order for this warranty to be activated, you must register the Veinlite LED at the time of purchase either by sending in the warranty registration card or by submitting your registration via www.veinlite.com.

Veinlite LED Specifications

Number of LEDs: 12 orange and 12 red LEDs
 Weight including battery: 3 oz
 Dimensions: 95 x 55 x 21 mm
 Rechargeable Battery: 3.7V, 1000 mAh Lithium Ion
 Battery Charger: 90-240 volts AC input, 5 volts DC output

Explanation of Symbols

Symbol	Explanation
REF	Model Number
SN	Serial Number
	Manufacturer
	EC Representative (EU Only)
	Do not dispose as unsorted municipal waste.

VLED DFU 0611

EC	REP
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M. Devices Group,
 Marlborough House,
 Riding Street,
 Southport, PR8 1EW, UK.
 Tel: +44 1704 544 944
 Fax: +44 1704 544 050

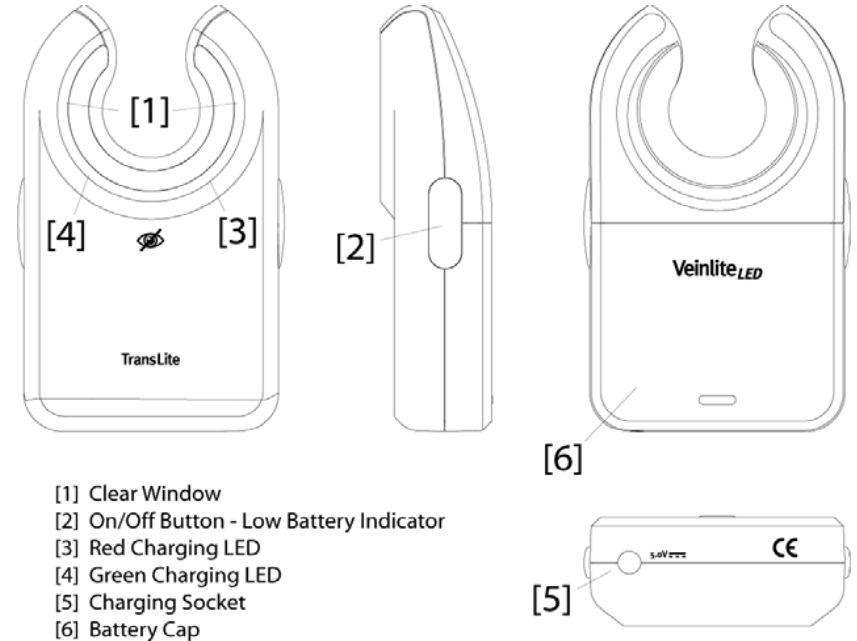
*US Patent Number 5,146,923.

TransLite LLC

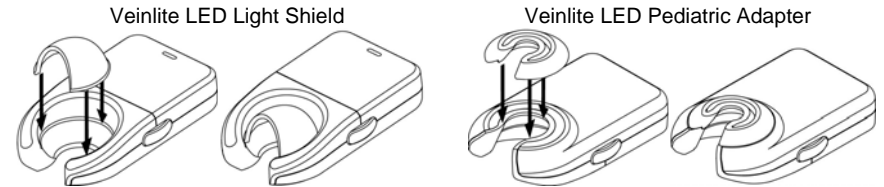
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Veinlite LED[®] CE



- [1] Clear Window
- [2] On/Off Button - Low Battery Indicator
- [3] Red Charging LED
- [4] Green Charging LED
- [5] Charging Socket
- [6] Battery Cap



READ INSTRUCTIONS BEFORE USE

CAUTION:

- United States Federal Law restricts this device for sale by or on the order of a qualified health care professional.
- Veinlite LED is designed for external examination only.
- To avoid contamination of the device, do not use Veinlite LED without the disposable plastic cover.
- To avoid spread of infection, always change the disposable plastic cover between patients.

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INSTRUCTIONS

Introduction

The TransLite Veinlite™ LED is a hand-held battery powered transillumination device for visualizing veins and superficial blood vessels. It utilizes the patented* transillumination technique known as side-transillumination, which enables the Veinlite LED to uniformly illuminate a small region of skin and subcutaneous tissue without any areas of shadow. The shadow-free side-transillumination technique allows better visualization of veins than any other transillumination method.

Applications

- Venous access in adult and pediatric patients, especially those with a history of difficult venous access
- Easier visualization of veins in darkly pigmented patients
- Transillumination light for neonatal applications

Veinlite LED Side-Transillumination Technique

In side-transillumination, light shines into the skin from outside the area of interest. A ring of bright light is focused below the skin surface and directed towards the ring's center. The focused light creates a volume of illumination, with the central focus acting as a virtual light source under the skin. This technique achieves uniform illumination of a small region of tissue anywhere on the body and does not create the shadows that limit the usefulness of other transillumination techniques.

Description of Veinlite LED

The Veinlite LED has 24 light emitting diodes (LEDs), mounted in a circular array and pointed towards the center of the circle. The light from the LEDs shines through a clear plastic window [1] so that it is focused under the skin. There is an opening in the circle to allow access. The 24 LEDs are grouped in two sets of 12: one set emits orange light, the other set emits red light.

The light from each set of LEDs has specific characteristics selected for optimal vein visualization at varying depths and through skins of different tones. The properties of the orange light are optimal for viewing superficial veins (including small varicose and spider veins), whereas the properties of the red light are optimal for viewing deeper veins. The red light also provides better penetration through darker skin.

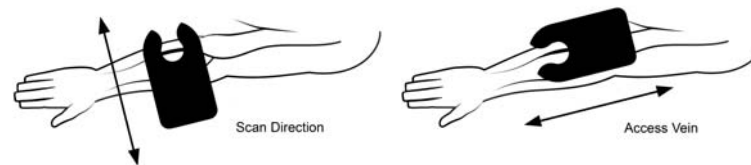
Each set of LEDs can be independently selected by pressing one of two separate buttons [2] located one on each side of the Veinlite LED. The orange LEDs are controlled by the orange button and the red LEDs by the red button. Both sets of LEDs can be switched on at once by pressing both buttons at the same time.

Operating Directions

1. Place the Veinlite LED inside the disposable plastic cover. Wipe the area of the cover coming in contact with the patient with alcohol.
2. Turn off any overhead fluorescent lights as these may interfere with transillumination. Low power, non-fluorescent side lighting is optimal.
3. Visually locate the region of the skin you wish to examine for veins and then place the Veinlite LED over it.
4. Apply gentle pressure to the Veinlite LED to ensure it is in contact with the skin.
5. Depress the orange and/or the red button [2] to turn on the LEDs. Use the orange button if you are examining small superficial or spider veins. Use the red button if you are examining deeper or feeder veins, or if the skin is darkly pigmented. Depress both buttons if a stronger light is needed. To access a vein while viewing with the Veinlite LED, place the Veinlite LED over the vein. Rotate the opening in

the Veinlite LED so that it faces away from the heart. Apply gentle pressure on the Veinlite LED to sequester the vein. Pull back slightly on the Veinlite LED to stretch the skin and provide traction. Insert the needle in the normal way at the entrance to the opening in the Veinlite LED.

6. Discard the disposable plastic cover after each patient. A Veinlite LED may be wiped with 70% isopropyl alcohol or other medically accepted disinfectant.



Position of Veinlite LED while looking for vein

Position of Veinlite LED while accessing vein

**DO NOT LOOK AT THE LEDs WHEN THEY ARE SWITCHED ON!
DO NOT SHINE THE LIGHT FROM THEM DIRECTLY INTO ANYONE'S EYES!**

Disposable Plastic Cover

The Veinlite LED should always be used with its disposable plastic cover to protect it from contamination and to minimize the spread of infection from patient to patient. These plastic covers are not sterile. Before using Veinlite LED, always wipe with 70% isopropyl alcohol any part of the cover coming in contact with the patient. The Veinlite LED is shipped with 50 plastic covers. Additional covers can be ordered from TransLite or its authorized dealer.

Low Battery Level Indicator Light

The new Veinlite LED incorporates a low battery level indicator light located in the orange light push button [2]. The light is activated when either the orange or the red lights are turned on and the battery level is lower than approximately 20% of the full battery power.

Recharging the Battery

The Veinlite LED is powered by a rechargeable lithium ion battery similar to a cell phone battery. This battery is designed to provide between 250 and 350 minutes of continuous usage, depending on whether one or both sets of LEDs are used at once. The Veinlite LED battery must be recharged by plugging the low power charger provided with the device in the charger opening in the Veinlite LED [5]. A red LED light [3] can be seen in the clear window [1] when charging the battery and a green LED light [4] can be seen when it is fully charged.

**DO NOT USE ANY OTHER CHARGER!
USING ANOTHER BATTERY CHARGER COULD DESTROY THE VEINLITE LED.**

Replacing the Battery

The rechargeable Lithium ion battery in the Veinlite LED is capable of over 500 charging cycles before replacement. For a typical user, this translates into approximately two to three years of use. Replacement of the battery is very simple. Slide the battery cap [6] off and lift out the battery. Unplug the connector at the top of the battery. Replace the battery with a new battery and plug in the connector. Slide the battery cover back on.

USE ONLY THE VEINLITE LED BATTERY FROM TRANSLITE.

Cleaning Directions Wipe the device with a damp cloth. Always use the disposable plastic cover to protect the device and to minimize the spread of infection. Whenever necessary, the Veinlite LED should be cleaned using 70% isopropyl alcohol or other medically accepted disinfectant.

DO NOT IMMERSE THE DEVICE IN LIQUID. DO NOT AUTOCLAVE THE DEVICE.