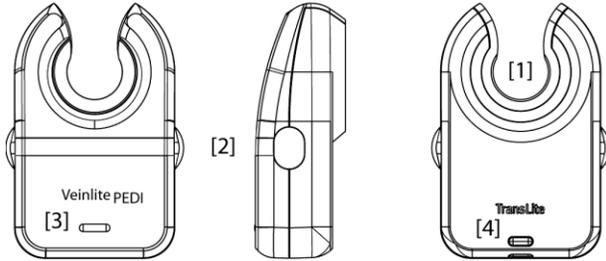


Veinlite PEDI CE



- [1] – Clear Window
- [2] – ON/OFF Button
- [3] – Battery Cap
- [4] – Lanyard Hole

READ INSTRUCTIONS BEFORE USE

CAUTION

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

TransLite, LLC

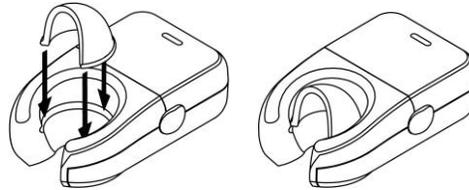
8410 Highway 90A, # 150, Sugar Land, TX 77478, USA
 Tel: (281) 240 3111 info@veinlite.com
 Fax: (281) 240 3122 www.veinlite.com

Attachments

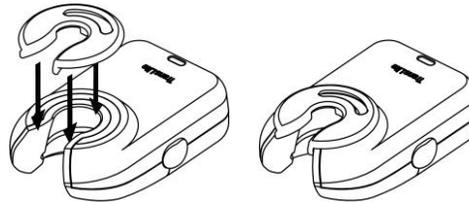
Two patented attachments are included with the Veinlite PEDI:
 A. A snap-on light shield* to reduce interference from bright overhead lighting.
 B. A snap-on neonatal adapter† to facilitate through-the-body transillumination of the limbs of neonates or small babies.

The diagrams below indicate how to attach the light shield and neonatal adapter.

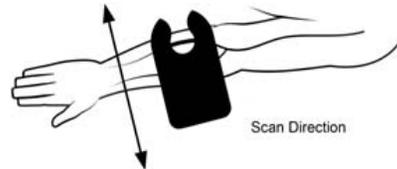
- A. Veinlite PEDI Light Shield
 *US Patent Number 8,032,205 B2



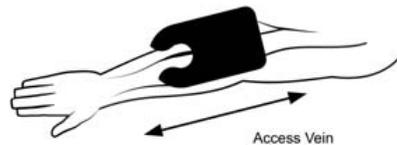
- B. Veinlite PEDI Neonatal Adapter
 †US Patent Number 7,841,751 B2



- C. Position of Veinlite PEDI while looking for vein



- D. Position of Veinlite PEDI while accessing vein



Warranty

The Veinlite PEDI has a one year parts and labor warranty. It is not necessary to register your Veinlite PEDI for warranty: the process is automatic and the serial number of the unit provides all the information needed.

Veinlite PEDI Specifications

Number of LEDs: 8 orange and 4 red LEDs
 Weight with battery: 1.5 oz
 Dimensions: 67 x 40 x 22 mm
 Battery: CR2 – 3.0 volt lithium

Explanation of Symbols

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



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INSTRUCTIONS

Introduction

The TransLite Veinlite PEDI is a hand-held battery powered transillumination device for visualizing veins and superficial blood vessels in neonates and infants. It utilizes the patented* transillumination technique known as side-transillumination, which enables the Veinlite PEDI to uniformly illuminate a small region of skin and subcutaneous tissue, anywhere on the body, without any areas of shadow. The shadow-free side-transillumination technique allows better visualization of veins than any other transillumination method. The patented neonatal adapter facilitates the traditional method of through-the-body transillumination of the hands or limbs of neonates or small babies.

Applications

- Emergency venous access in neonates and infants
- Venous access in neonates and infants with a history of difficult venous access
- Easier visualization of veins in dark skinned neonates and infants
- Easier visualization of veins in overweight neonates and infants

Side-Transillumination Technique

In side-transillumination, the patented* new transillumination technique, 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 PEDI

The Veinlite PEDI has 12 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 8 orange and 4 red LEDs are spaced to provide optimum lighting for imaging veins from the top or with the neonatal adapter that snaps in the front of the device.

The colored LEDs were selected for the specific characteristics of the light they emit, resulting in optimal vein visualization at varying depths and through skins of different pigmentation. The orange** LEDs are optimal for viewing very small and superficial veins and are activated by pressing the orange button. The red LEDs are optimal for viewing deeper veins and are activated by pressing the red button. All 12 LEDs can be switched on by pressing the orange and red colored buttons [2] located on the sides of the Veinlite PEDI.

Operating Directions

1. Place the Veinlite PEDI inside the disposable plastic cover so that the cover flap is on the same side as the LEDs. Wipe the area of the cover coming in contact with the patient with 70% isopropyl alcohol or other medically accepted disinfectant. Check the cover to make sure it is intact.
2. Turn off any bright overhead fluorescent lights as these may interfere with transillumination. Low power, non-fluorescent side lighting should be used instead.
3. Visually locate the region of the skin you wish to examine for veins and then place the Veinlite PEDI on the skin, with the LEDs facing down. Apply gentle pressure to the Veinlite PEDI to ensure it is in contact with the skin.
4. Depress the orange, red or both buttons [2] to switch on the LEDs.
5. Reduce interference from the overhead lights by cupping your hand over the unit or by using the snap-on light shield as shown in diagram A.
6. To locate a vein while viewing with the Veinlite PEDI, move the Veinlite PEDI slowly across the arm, as shown in diagram C. Veinlite PEDI can also be used to locate veins on the scalp, hand or foot.
7. To access the vein, rotate the Veinlite PEDI over the vein so the opening in the circle of LEDs faces away from the heart, as shown in diagram D. Apply gentle pressure on the Veinlite PEDI to sequester the vein. Pull back slightly on the Veinlite PEDI to stretch the skin and provide traction. Insert the needle in the normal way.
8. Discard the disposable plastic cover after each patient and switch off the Veinlite PEDI when it is not in use.
9. To use the Veinlite PEDI for through-the-body transillumination of hands in neonates or of limbs in preterm neonates, snap on the neonatal adapter in front of the clear window as shown in diagram B.

CAUTION

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

Disposable Plastic Cover

The Veinlite PEDI should always be used with its disposable plastic covers to protect it from contamination and to prevent the spread of infection from patient to patient. These plastic covers are not sterile. Before using Veinlite PEDI, always wipe any part of the cover coming in contact with the patient with 70% isopropyl alcohol or other medically accepted disinfectant. The Veinlite PEDI is shipped with 50 plastic covers. Additional covers can be ordered from TransLite or its dealers listed on www.veinlite.com.

Installing the Battery

The Veinlite PEDI is powered by a compact 3 volt lithium battery (CR2). The battery will provide between 2 and 4 hours of continuous illumination (several days of normal use) depending on the number of LEDs turned on. Light output from the Veinlite PEDI will decrease as the batteries become depleted. For optimum imaging of veins, replace the batteries as soon as the light output from the LEDs is visibly decreased.

To install or replace the battery, press firmly on the battery cap [3] and slide it off. Remove any used battery. Replace with new CR2 battery and slide the battery cover back into place. Always keep a spare battery on hand.

Cleaning Directions

Always use the disposable plastic covers to protect the device and to minimize the spread of infection. Avoid using alcohol on the clear plastic window as it may become fogged.

CAUTION

- ALWAYS USE THE DISPOSABLE PLASTIC COVER!
- DO NOT IMMERSE THE DEVICE IN LIQUID!
- DO NOT AUTOCLAVE THE DEVICE!

Attaching a Lanyard

A lanyard can be attached to the Veinlite PEDI, via the hole at the bottom of the unit [4]. A specially designed Veinlite lanyard, with product code VPED-LAN, may be purchased from TransLite.

Troubleshooting

Before returning the Veinlite PEDI to TransLite for repair, please call or e-mail to obtain a return authorization code and shipping information. No returns are accepted or refunds given for any Veinlite product returned without prior authorization.

- LED failure

The LEDs are designed to have in excess of 50,000 hours of operation. They should not require replacement during the lifetime*** of the Veinlite PEDI. 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.

- No light from any LEDs

Replace the battery and depress the buttons [2] to switch on the LEDs. If the LEDs do not switch on, please contact TransLite for assistance.

*US Patent Number 5,146,923

**US Patent Number 7,874,698 B2

***The predicted lifetime of the Veinlite PEDI is 5 years.