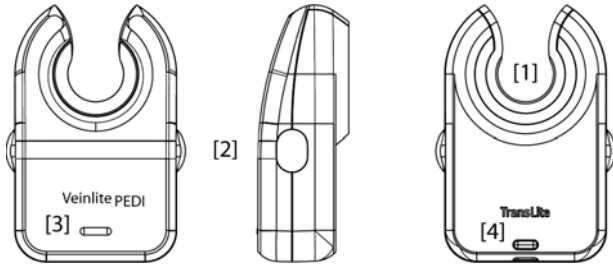


# Veinlite PEDI CE



- [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

### Warranty

The Veinlite PEDI has a one year parts and labor warranty. In order for this warranty to be activated, you must register the Veinlite PEDI at the time of purchase either by submitting your registration via [www.veinlite.com](http://www.veinlite.com) or by calling TransLite at the number below.

### 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 volts Lithium

### Explanation of Symbols

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



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

### TransLite, LLC

8410 Highway 90A, Suite 150  
 Sugar Land, TX 77478, U.S.A.

Tel: (281) 240 3111  
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[www.veinlite.com](http://www.veinlite.com)  
[info@veinlite.com](mailto:info@veinlite.com)

# INSTRUCTIONS

## Introduction

The TransLite Veinlite PEDI is a hand-held battery powered transillumination device for visualizing veins and superficial blood vessels in children, babies and neonates. 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.

## Applications

- Emergency venous access in infants and children
- Mapping of superficial veins in infants and children prior to vein access
- Venous access in infants and children with a history of difficult venous access
- Easier visualization of veins in dark skinned patients
- Easier visualization of veins in overweight infants and children
- Neonate adapter for through-the-body transillumination

## 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 orange and red LEDs are spaced to provide optimum lighting for imaging veins from the top or with the neonate 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 side of the Veinlite PEDI.

## Operating Directions

1. Place the Veinlite PEDI inside the disposable plastic cover. 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 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 firmly place the Veinlite PEDI on the skin, with the LEDs facing down towards.
4. Apply gentle pressure to the Veinlite PEDI to ensure it is in contact with the skin. Reduce glare from the overhead lights by cupping your hand over the unit or by using the snap-in light shield
5. Depress the orange, red or both buttons [2] to switch on the LEDs.
6. To access a vein while viewing with the Veinlite PEDI, place the Veinlite PEDI over the vein. Rotate the Veinlite PEDI so the opening in the circle of LEDs faces away from the heart. 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.
7. Discard the disposable plastic cover after each patient and switch off the Veinlite PEDI when it is not in use.
8. To use the neonate adapter for through-the-body transillumination, snap in the neonate adapter in front of the clear window. You can now use the Veinlite PEDI as a standard transilluminator.

## 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 cover 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. The Veinlite PEDI is shipped with 50 plastic covers.

Additional covers can be ordered from TransLite or any of its authorized dealers listed on [www.veinlite.com](http://www.veinlite.com).

## Installing the Battery

The Veinlite PEDI is powered by a compact 3 volts 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 replace the batteries, slide the battery cap [3] off and carefully remove the battery. Replace with new CR2 battery and slide the battery cover back into place. Always keep a spare battery handy.

## 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 PEDI should be cleaned using 70% isopropyl alcohol or other medically accepted disinfectant. **AVOID PUTTING ALCOHOL ON THE CLEAR WINDOW** as it may cause the plastic window to appear 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]. Use a thin cord for this purpose.

## 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 refunds will be given for unauthorized shipping.

### - LED failure

The LEDs are 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, please contact TransLite to arrange return for repair. Do not attempt to replace any LEDs.

### - 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, call TransLite for assistance.

## Optional Attachments

Two optional attachments are available for the Veinlite PEDI:

1. A snap-on light shield to reduce interference from bright overhead lighting.
2. A snap-on neonate adapter for use with small babies.

\*US Patent Number 5,146,923.