

VeinViewer®

VEINVIEWER FREQUENTLY ASKED QUESTIONS

VeinViewer® is a clinical tool designed to improve peripheral vascular access, allowing clinicians to visually assess the location and orientation of their patient's vessels directly on the surface of the skin.

The following Frequently Asked Questions are compiled for your benefit as a quick reference for answers to many of the most common questions people ask about VeinViewer.

Note: VeinViewer is a non-invasive adjunct technology that projects an image of subcutaneous vasculature directly on the surface of the skin. Use of VeinViewer is not intended to replace clinical protocol.

1. **Q** Does VeinViewer depict arteries in addition to veins?
A An artery may be visualized if it falls within the viewing depth of VeinViewer, up to 10mm for peripheral veins and up to 15mm for blood patterns. In many patients, arteries are not visible in the projected image due to the depth of the artery.

2. **Q** Can I use this anywhere on the body? Scalp veins?
A Yes. You can assess a patient's vasculature from head to toe with one exception: VeinViewer is not intended for use on the eyes, as it uses a harmless but bright LED light to create the projected image.

3. **Q** Why is the projected image green?
A The green color has a vivid appearance across all skin types and pigmentation.

4. **Q** Will it heat the patient's skin? Should I be concerned about laser eye issues?
A No. VeinViewer does not contain light sources with enough intensity to cause body heating or skin damage with prolonged use nor does it use laser technology.

5. **Q** Can I see the vein if it rolls?
A If the vessel is clearly visible within the projected image, you may see it roll. VeinViewer projects the image in real-time, allowing you to see the location and orientation of the vasculature and any movement of the vessels that may occur.

6. **Q** Can I see infiltration and the flushing of an IV?
A You may be able to see hemoglobin leaking into the surrounding tissue if present within the viewing depth of VeinViewer. Detection of a hematoma with VeinViewer may help avoid an infiltration. Similarly you may be able to see the flushing of the vein as fluid disperses the blood column.

7. **Q** Can I see previous injection sites?
A Previous injection sites may be visualized within the VeinViewer image.

8. **Q** The projected vein image suddenly drops-off. Why?
A In some cases it has been noted that connective tissue acts as a "shield" and, when covering a vein, can create a small region where the clearly viewed vein suddenly "drops off".

9. **Q** I don't see a vessel in the projected image; is VeinViewer working?
A Yes! VeinViewer allows you to clearly see subcutaneous vasculature within depth of field. If no vessels appear in the projected image, you can determine that vessels within the imaging area are deeper than the peripheral viewing depth of up to 10mm. Again, be mindful of possible connective tissue being present.
10. **Q** How deep is the vessel?
A The projected image does not provide a specific depth of the vessels. Use your clinical skills, such as palpation, to estimate depth. Vessels may be visualized up to 10mm from the surface of the skin.
11. **Q** Can I stick while the light is still on?
A Absolutely, this is the preferred technique as you are able to receive the maximum real-time information by sticking either through the light or at the edge of the border. You may leave the projected image on the target area, using it as a reference during your procedure, ensuring you are gaining the full Pre-, During- and Post-access benefits.
12. **Q** How do I know how deep to puncture the skin? Do I still use a tourniquet?
A Refer to your approved clinical protocol for vascular access procedures.
13. **Q** How accurate is the VeinViewer image? Do I have any limitations to hold the device so as to not create false veins?
A VeinViewer with TrueView provides a very accurate image. In a study with over 3,000 data points, VeinViewer showed near-perfect vein-width accuracy when compared to ultrasound; +/- 0.06mm differential for veins most commonly accessed for a peripheral IV (3-7mm wide).
14. **Q** Does the light allow for visualization of the catheter?
A No, the catheter is not visualized by VeinViewer. However, you may notice a displacement of blood in the projected image when the vessel is accessed during your procedure.
15. **Q** Can VeinViewer help me determine if the catheter is in the vessel?
A VeinViewer is a non-invasive, adjunct technology that projects an image of subcutaneous vasculature directly on the surface of the skin. It may be able to help you visualize the flushing of a vein as referred in #6.
16. **Q** Are there any long term risks associated with use of VeinViewer?
A There are no known long term risks associated with use of VeinViewer.
17. **Q** What is the maintenance for this device?
A We recommend cleaning VeinViewer according to your institution's policy. Christie offers a five (5) year warranty with the purchase of VeinViewer.
18. **Q** Who can I contact if I have a question about VeinViewer?
A We are committed to the quality of our products. You can reach our customer service team with any questions or comments regarding service contract options, in-service training, sales or support at (877) SEE-VEIN (877-733-8346) or through our website at www.veinviewer.com.

*Statistical references available upon request.



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