



Near Infrared Imaging



Vein-Eye Carry

End User Assembly and User Guide

Important warnings and information for the use of the Vein-Eye Carry (VEC)

Do not use the Vein-Eye Carry system while simultaneously charging the camera or the tablet.

- This could cause the camera to freeze, forcing the user to turn the VEC off and back on again.

There is one (1) wall charger with two connections. Feel free to charge both the tablet and the camera at the same time **when they are not in use.**

Make certain that the camera and super clamp are always pointing in the same direction – towards the patient.

Do not bend the gooseneck in many directions as it could cause the bottom gooseneck connector to snap and break from the clamp.

Test the image to make certain that the camera is at the right angle and distance from the patient's arm or hand.

If there are bright white spots, or glare, then the camera is too close to the patient.

Vein-Eye Carry carrying case

The carrying case measures 18” length, 12” width, and 7” in height. The total weight of the Vein-Eye Carry – in the carrying case – is less than 10 lbs.



The arrival of the Vein-Eye Carry.

This is the camera, gooseneck and super clamp attached and ready to be used.

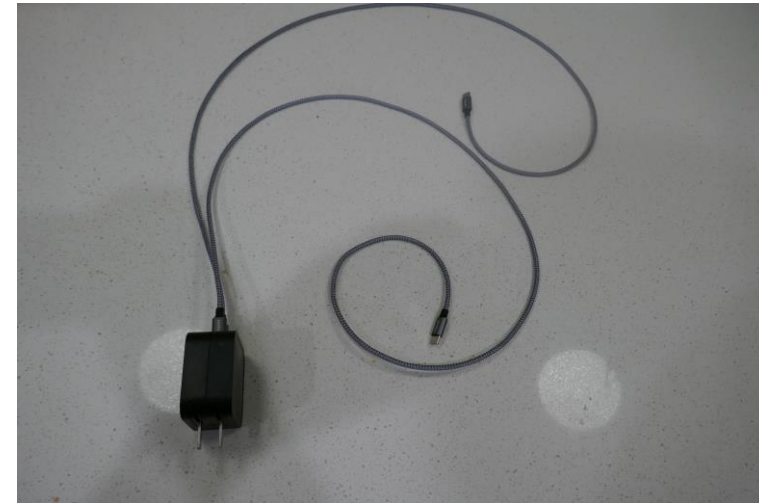
Loosen the black strap over the gooseneck and remove from the VEC from the carrying case.



The fitted foam padding should always be underneath the camera when moving or shipping.

Vein-Eye Carry
tablet and wall
charger are packed
inside the outer
external pockets.

One (1) wall
charger can charge
both devices at the
same time: tablet
and camera.





The Windows tablet is inside the padded tablet cover

Remove the Vein-Eye Carry from the carrying case. The Vein-Eye Carry in the case contains a camera, gooseneck, and super clamp all attached.

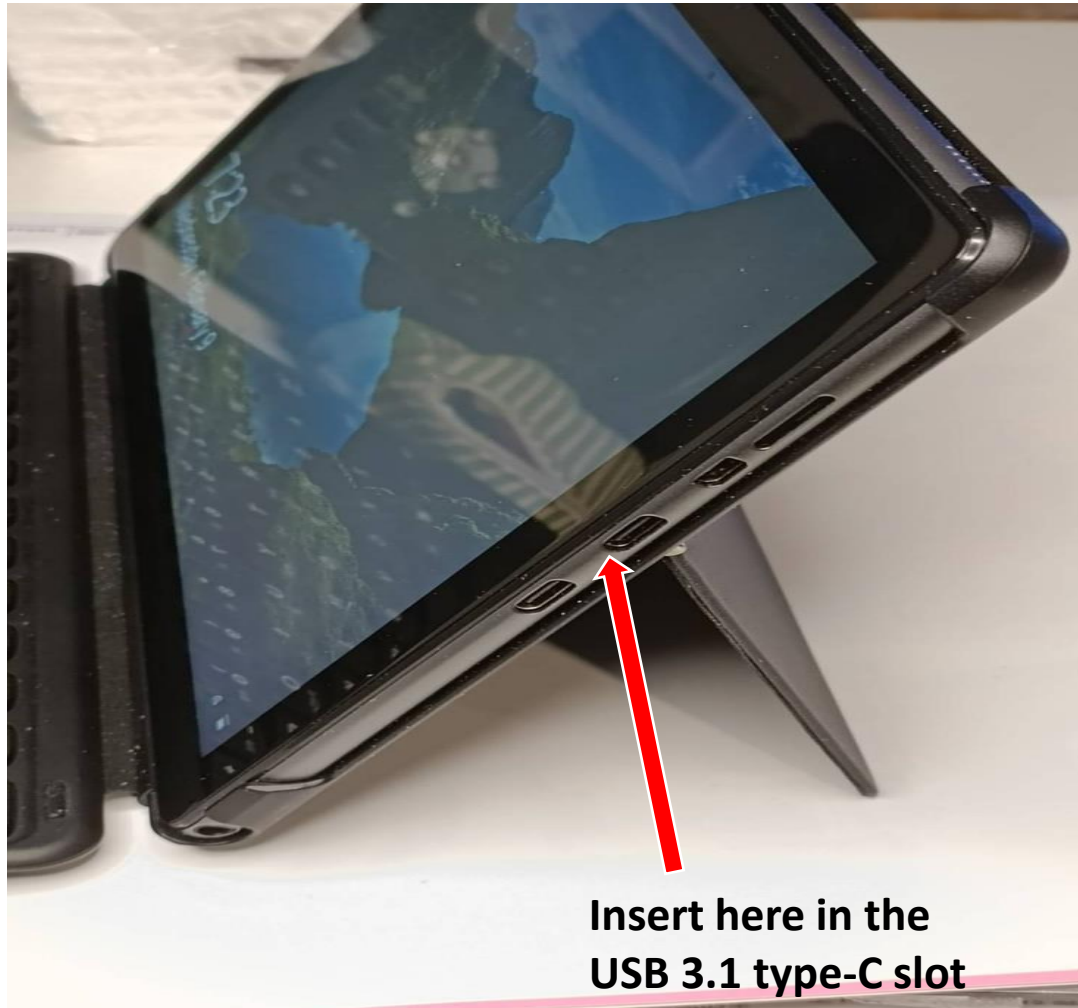
This is the proper angle: with the camera and the clamp pointing towards the patient.



Connecting the camera to the tablet

- The small USB – A to USB – C cable should already be connected to the cable coming from the camera.
- Connect the USB-C cable from the camera to tablet.





Connect the camera to the tablet.

Please connect the camera cable to the USB 3.1 type-C slot on the display.

Note: This the 2nd slot from the bottom.

Connect the small gold connectors on the tablet to the small gold connectors on the keyboard.

They are magnetized and should keep the tablet together.

Pull out the lower section of the tablet back cover to act as a stand.



Never bend the gooseneck backwards when connected to the super clamp. If that happens, the gooseneck will break at the point where the gooseneck is attached to the super clamp.

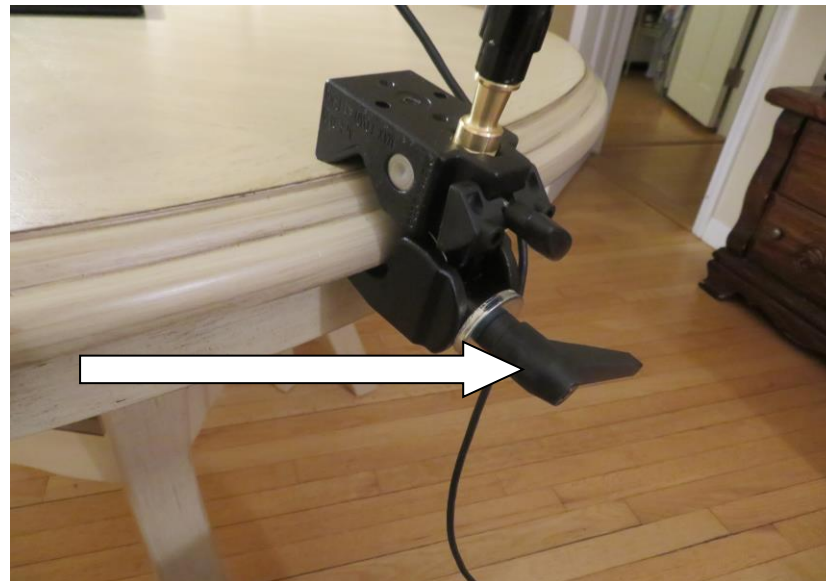
The super clamp and camera must be in the same direction – towards the patient.



To attach the super clamp to a table, bed, chair or other piece of hospital or home furniture, simply turn the large black handle so that the clamp opens.

Then place the clamp onto the hospital or home furniture and tighten the clamp.

Test the gooseneck and clamp so that the entire accessory does not move.



The required FDA and other information is on a sticky, washable label on the tablet.

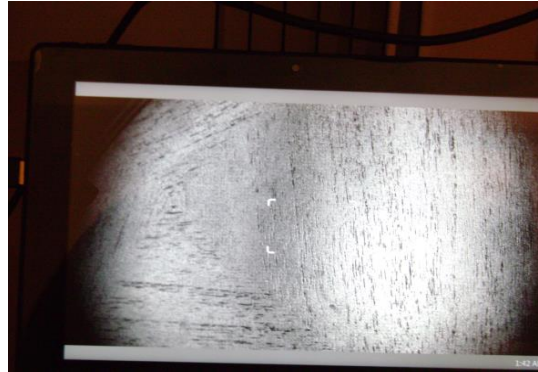


Imaging patients

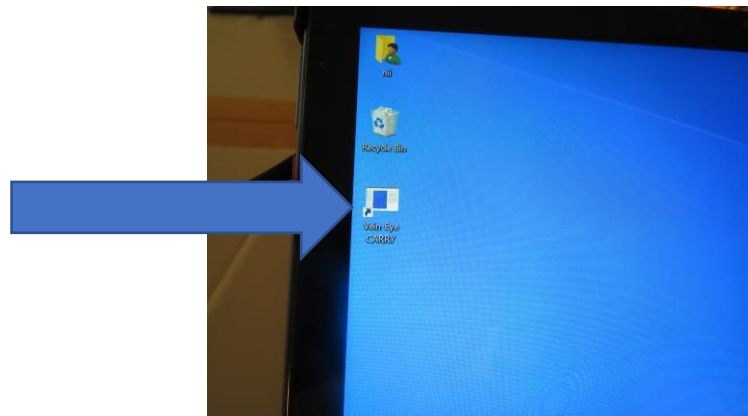
Power the camera ON first and then power the tablet ON.

There is no password for the tablet. Just hit ENTER when it asks for the password. The camera and tablet will sync up and take you to the below “active imaging mode”.

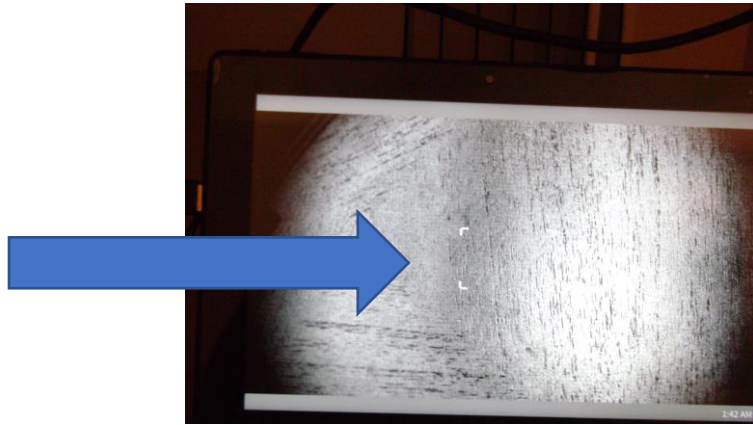
It may take 10 – 15 seconds.



If the tablet does not take you into active camera mode after 15 seconds, it will take you to this page. Simply double-touch the Vein-Eye Carry icon.



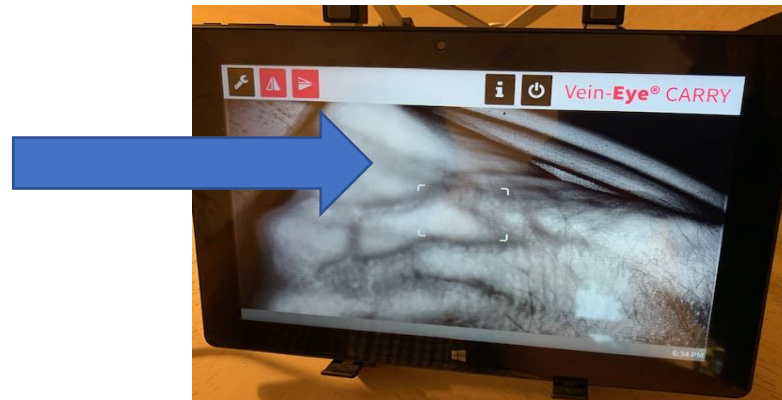
This is active imaging mode. In the center are four white indicators.



Focus the desired vein puncture area within in the four (4) white indicators

When you are in active camera mode, **double-click or double touch** near the top of the screen. The “icons” will appear.

To have the icons disappear, just **double-click or double-touch touch** the screen near the top again.

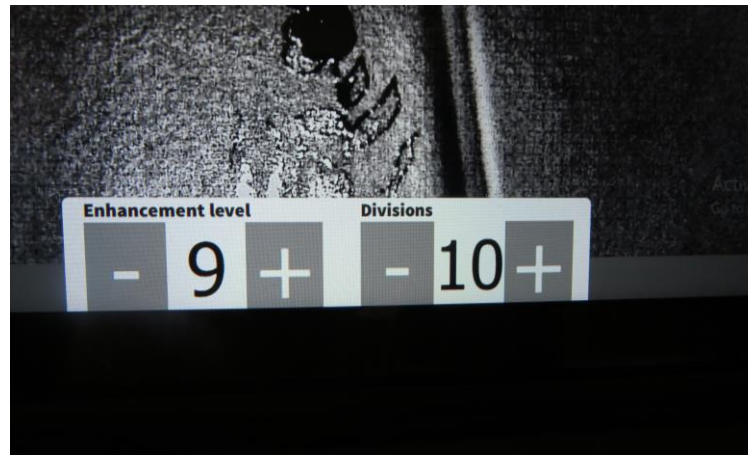


The wrench icon allows you to make changes to the screen resolution.

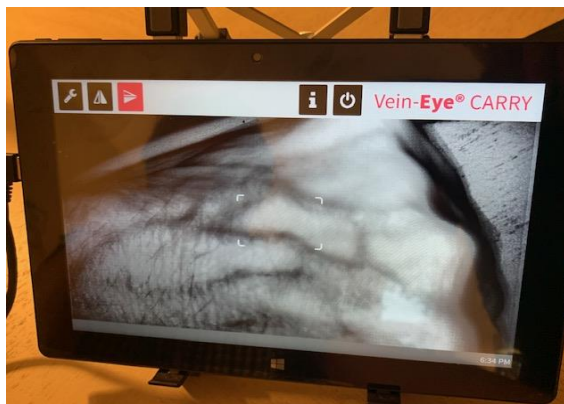
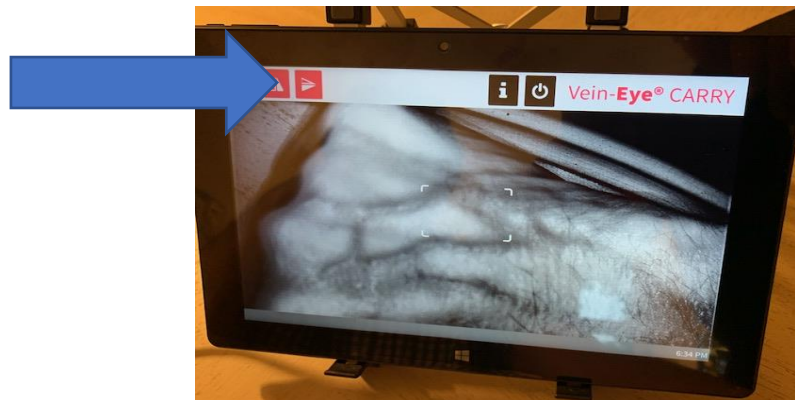


If you click on the wrench, you will see at the bottom of the screen that the tablet is preset with Enhancement and Division levels at 9 and 10.

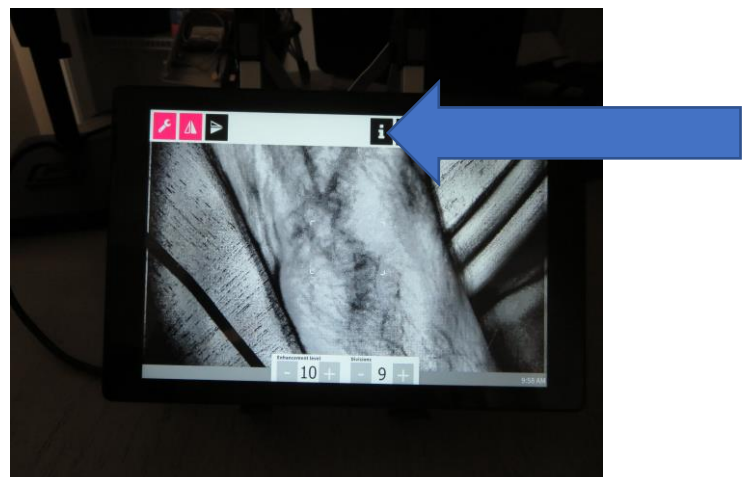
Most of our end users prefer 9 and 10 or 10 and 9. Either configuration works fine.



The two icon buttons at the top, after the wrench, can be used to help the user imaging the patient from the patient's right side or the patient's left side.



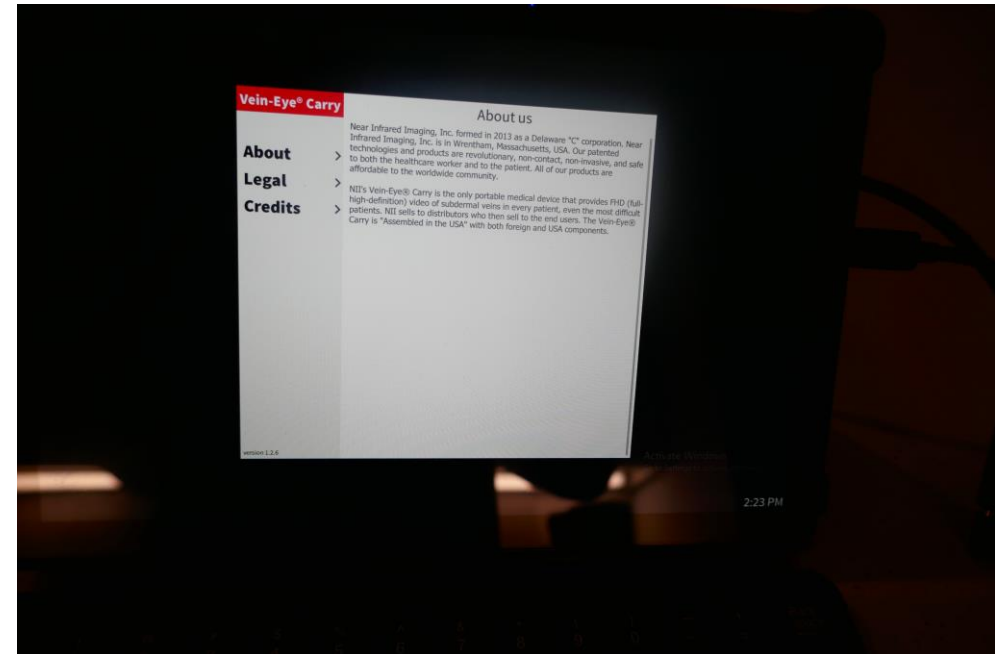
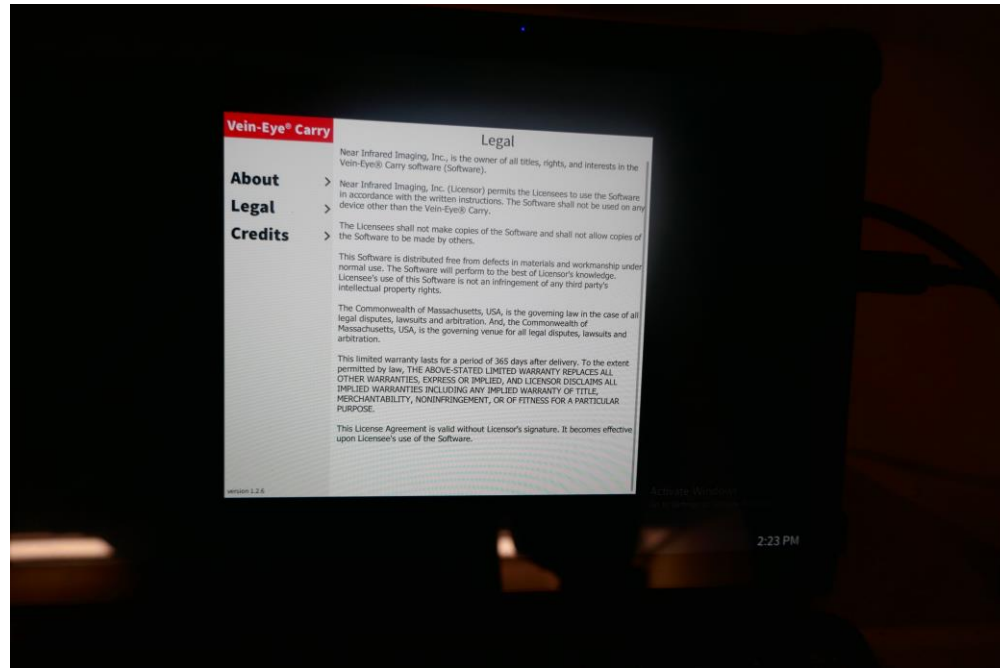
The “i” icon is for legal information on the company and the technology.



⏻ is the power icon to allow the user to return to the main page with just one single click or touch.

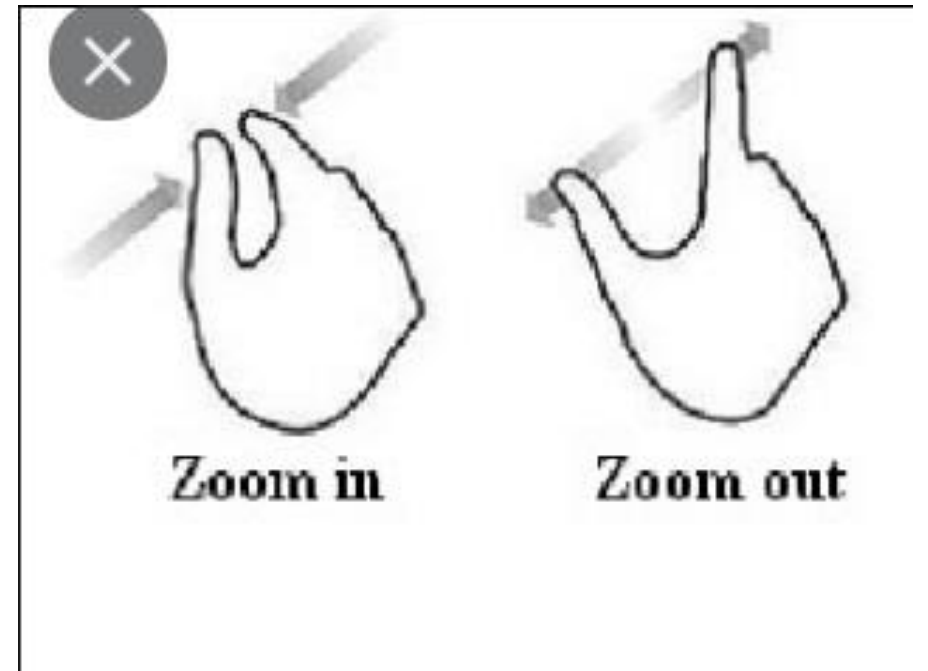


Information available by clicking on “i”



Zoom “in” and zoom “out”

- A new feature allows the user to use two fingers to enlarge the image of a section of the vein.
- This is very helpful to identify and locate infiltration or extravasation of the medicine into the surrounding tissue.
- There is a video on our website that shows how easy the 2-finger zoom feature works.



Zoom in to stop problems during an infusion

When a patient moves their arm or hand during infusion, this can cause the needle to accidentally poke a 2nd hole in the vein.

- The infused medicine will then leak from the vein into the surrounding tissue.
- This is called infiltration or extravasation.

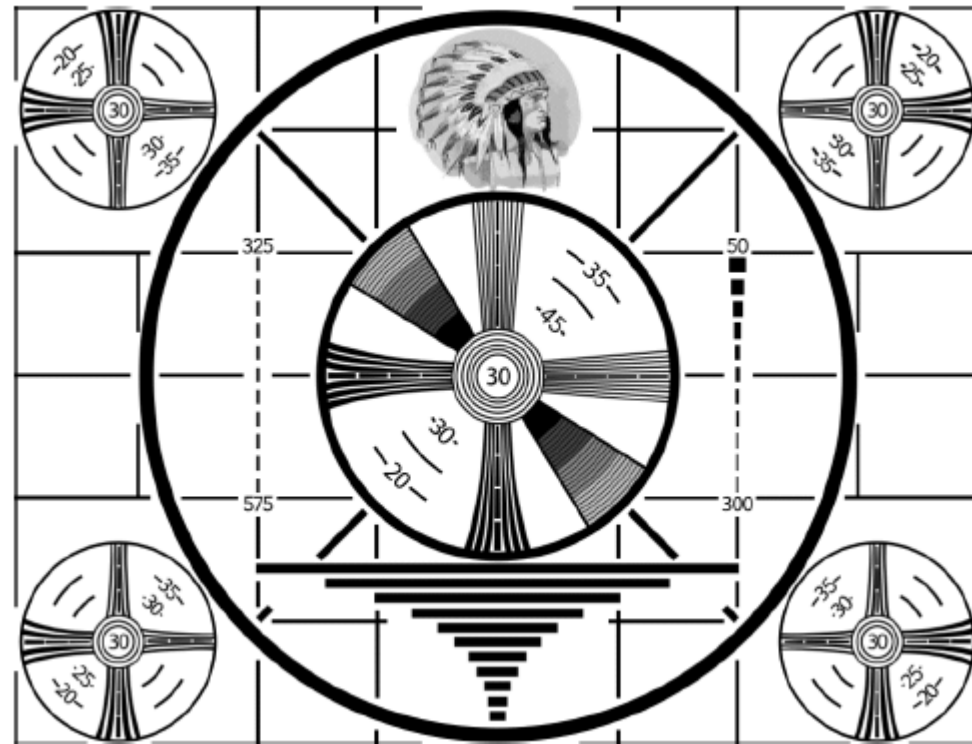
The Vein-Eye Carry's "two-finger" zoom feature will increase the size of the viewing area significantly. This will quickly pinpoint the leakage of medicine.

The www.nearinfraredimaging.com website video shows the zoom feature in use quite well.

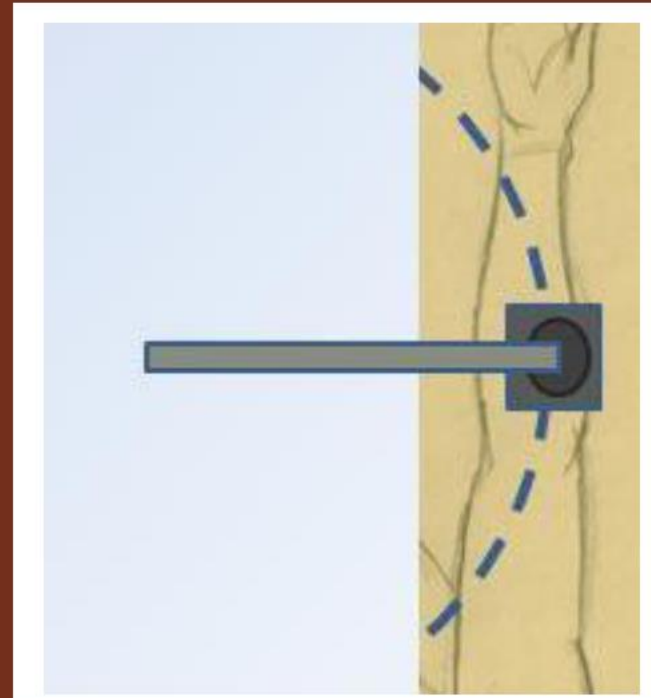
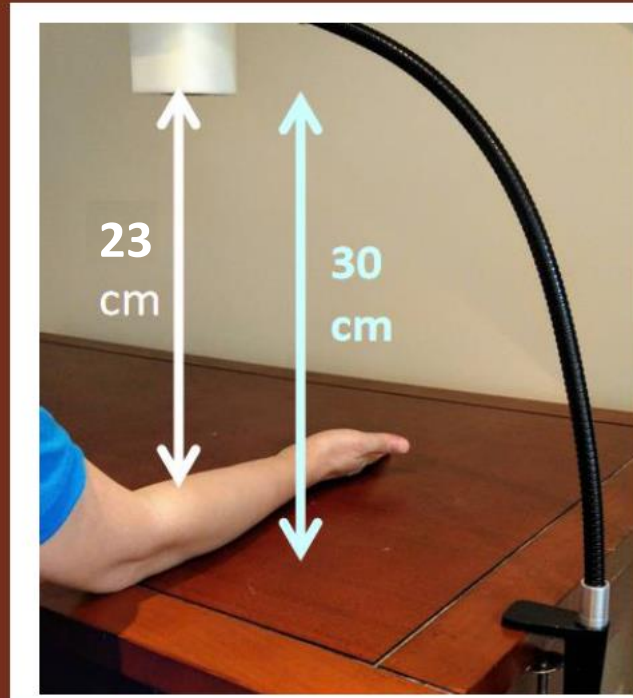


Test the image quality

Use the below chart to test the quality of the video at 9 inches (or 23 cm) distance from the desktop to the camera front glass.



Proper distance (23 cm or 9 inches) and proper angle (straight down) when imaging the patient.



Check the power indicators on both the camera and the tablet often.

Charging the camera

The white wall charger should only be used to charge the camera.

Plug the wall charging unit into a wall power outlet and plug in the type-C connection to the camera type-C slot.

Turn the “Camera” power button off.

Both the “Charge” red LED and the “Battery Level” 4 green LEDs will light up during the charging mode.

Once all four (4) lights are green, the camera is charged.

- **Do not charge the camera when the camera is in use.**



Check the power indicators on both the camera and tablet often.

Charging the tablet

The black wall charger should only be used to charge the tablet.

Connect the charger to the Type C USB slot (2nd from the bottom) of the tablet and plug it into a power outlet on the wall.

Do not charge the tablet when imaging a patient.

