

Vascular Visualization System ACCESSVIEW Product Presentation



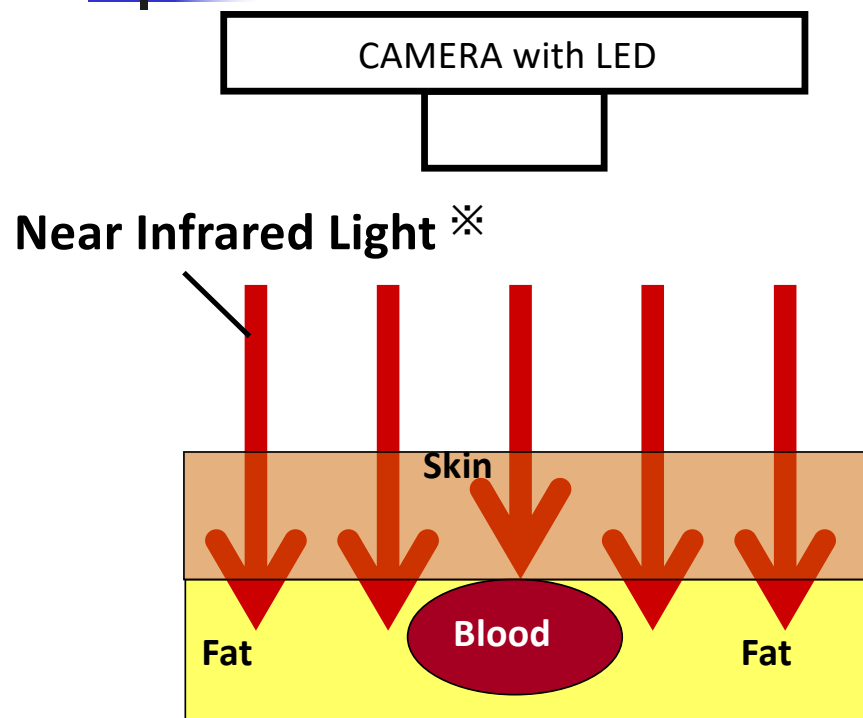
Mechanism of ACCESSVIEW



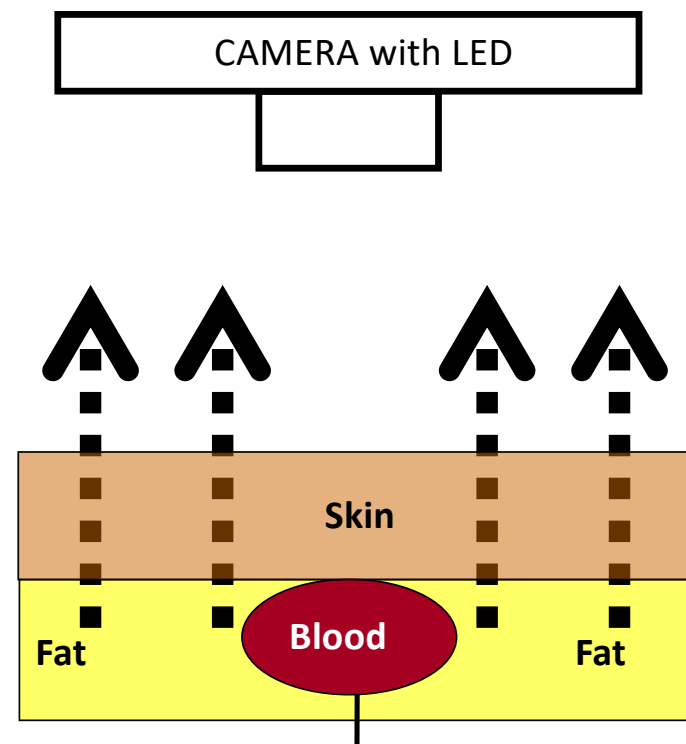
It is a device to visualize relatively shallow blood vessels

Near-infrared light is irradiated, and the reflected near-infrared light is captured and imaged by the upper CAMERA. The areas absorbed by hemoglobin in the blood are depicted in black.

Principles of blood vessel visualization: absorption and reflection of near-infrared light



✧ This light is also used in TV remote controls, and is harmless and invisible.



Because the blood in the blood vessels absorbs near-infrared light, the blood part does not reflect it.



ACCESSVIEW Technology

- Selected wavelengths that easily penetrated the skin.
- Developed an optical filter for camera that cut only the wavelength components reflected by the skin surface.
- Developed vascular image restoration technology



Visualization of relatively shallow blood vessels



Visualization of dialysis shunt blood vessels
(an example of a dialysis patient)



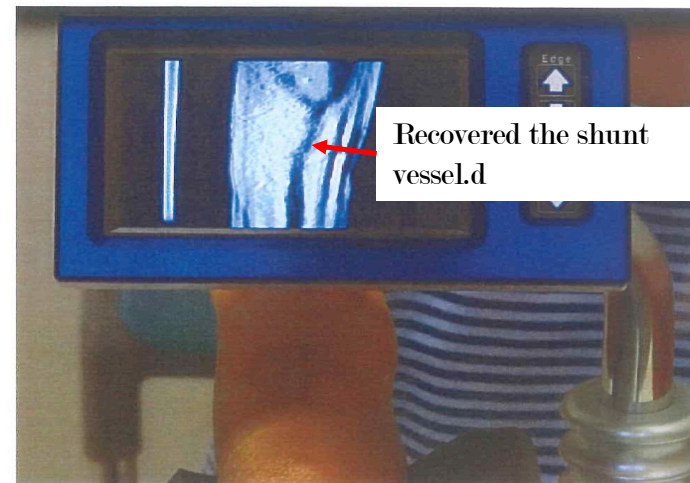
Example of blood flow resumption (Comparison of dialysis patients before and after PTA)

Before and after PTA comparison photos

before PTA



after PTA





Notes on Vascular Visualization for Dialysis Patients

- ① Masses, calcified blood vessels, etc. may not be seen well.
 - ② Deep or thin blood vessels may not be seen well.
- * Depending on the patient, it may not be easy to see the shunt vessel properly.

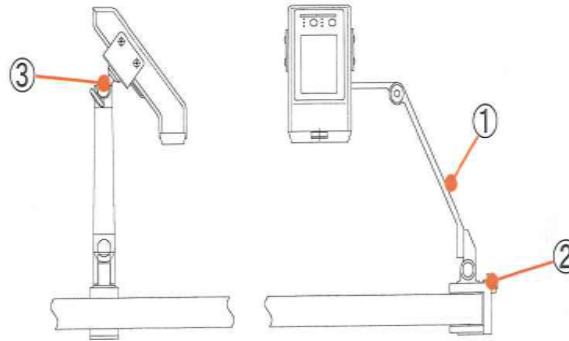


Two points to note when setting up the device

① It is important to use it in a place where sunlight does not enter. (Since 50% of sunlight is near-infrared, it is affected and the image does not show up well.)

② When setting up the device, the bottom part of the camera should be parallel to the ground.

(If the near-infrared light shining on the arm doesn't return to the camera directly above it at the same angle, it won't show up well.)



Two points to note when using the device

- ① When looking at blood vessels in the arm, place the arm vertically against the monitor screen. (Because the image processing is done vertically)

Correct placement



incorrect placement



- ② Position the target vessel you want to see in the center of the screen.
(To capture reflections at the center as much as possible)





Hospital departments to be promoted

- Blood Collecting Room
- General Disease Ward
- Dialysis room

Departments that perform peripheral vascular securement