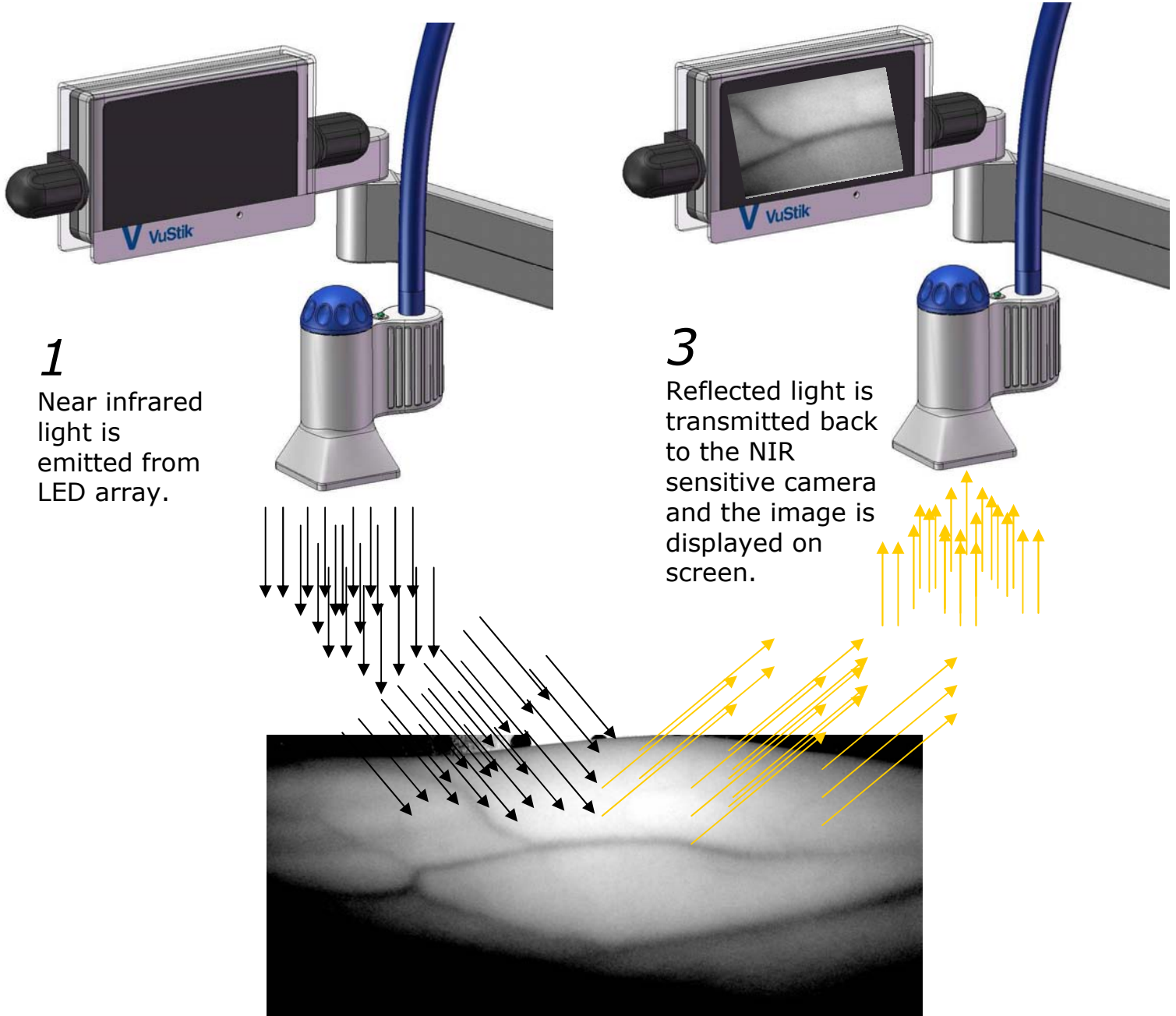


# Technology Overview

Using patented VuStik technology, harmless near infrared light is selectively absorbed by deoxygenated blood, while being reflected by the surrounding tissue. A simple but effective design uses a NIR light source, camera, LCD monitor and selective filters to create an image of gray-black veins against a light background.



**1**  
Near infrared light is emitted from LED array.

**3**  
Reflected light is transmitted back to the NIR sensitive camera and the image is displayed on screen.

**2**  
Near infrared light is absorbed by hemoglobin or reflected by subcutaneous tissue.