



Akicare Technology Limited

Vein Detector VE-40

○ Working Principle

Veins absorb infrared and reflect differently with other body tissues, based on this physical regulation, Vein Detector is designed for showing comparison of veins with other body tissues, which helps to detect and identify veins for medical practice and operation.



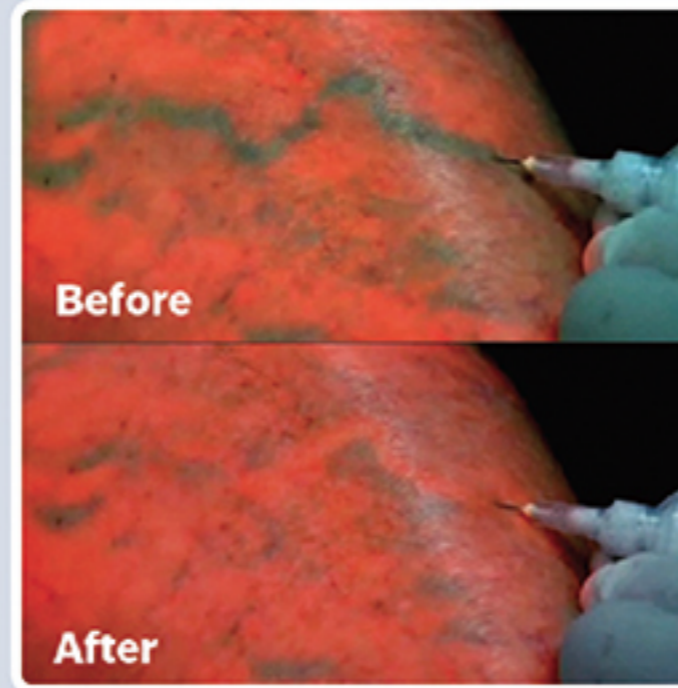
○ Application



Intravenous infusion



Blood collection



Thrombosis surgery



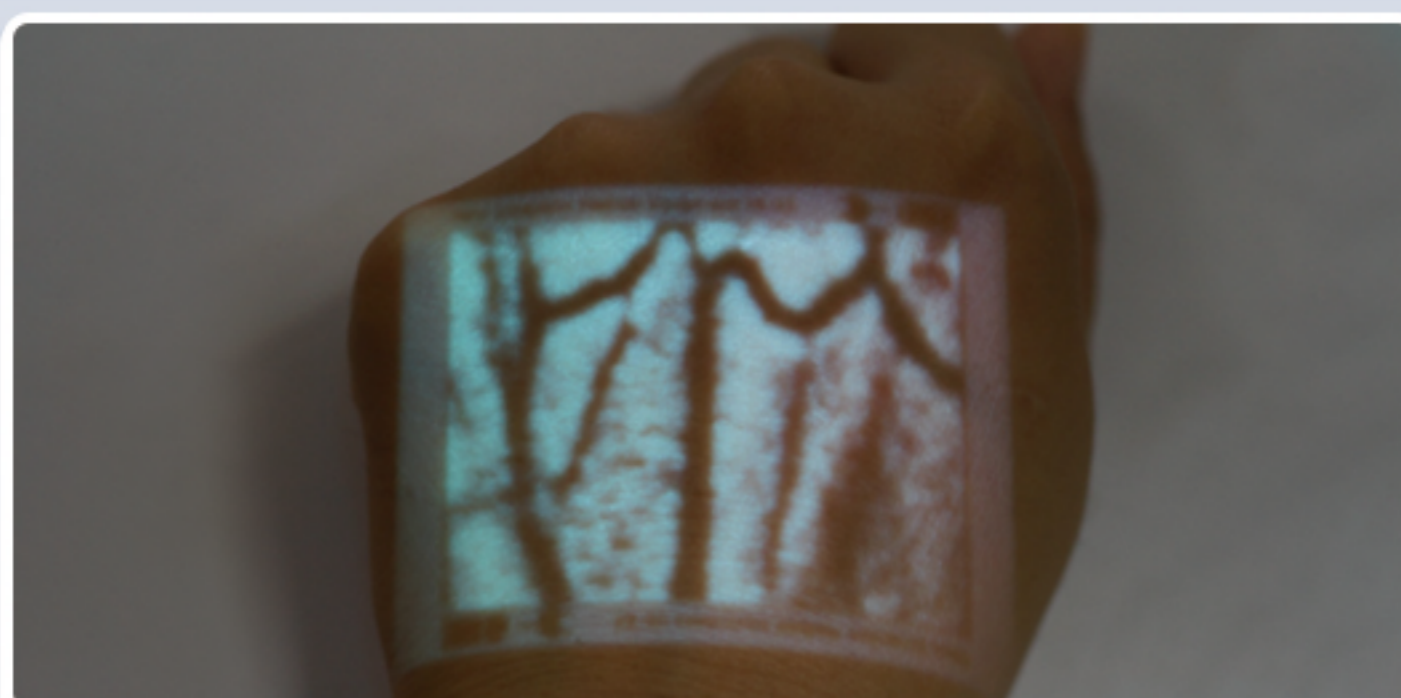
Cosmetic surgery

○ Color Mode



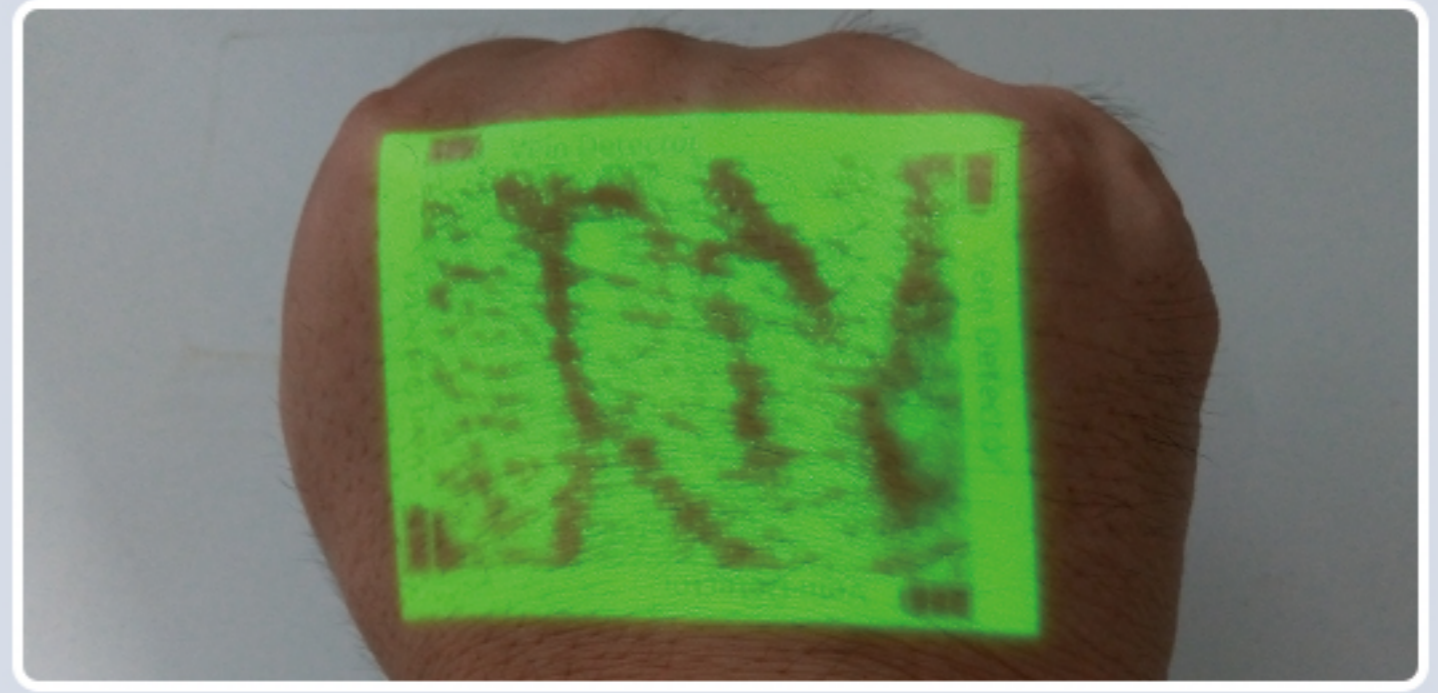
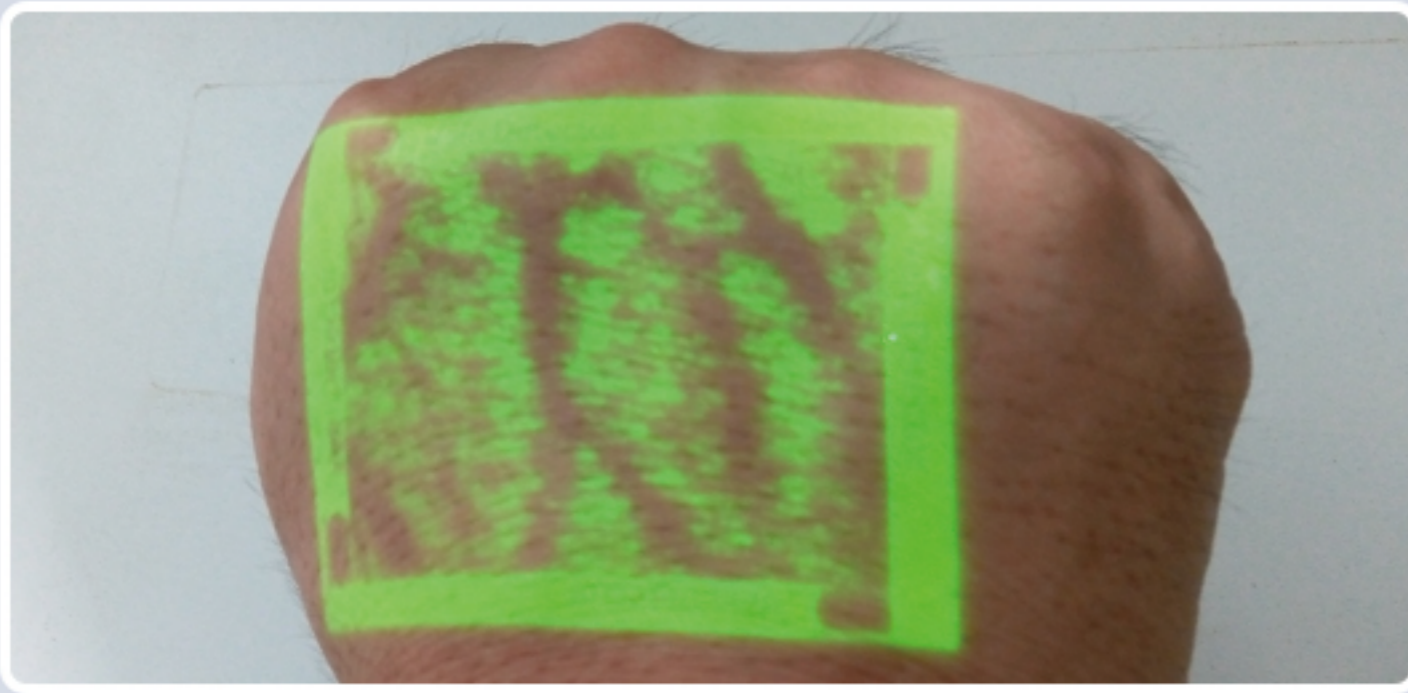
Green/Red/White, three colors could be switched to detect veins in different situation.

○ Children Mode



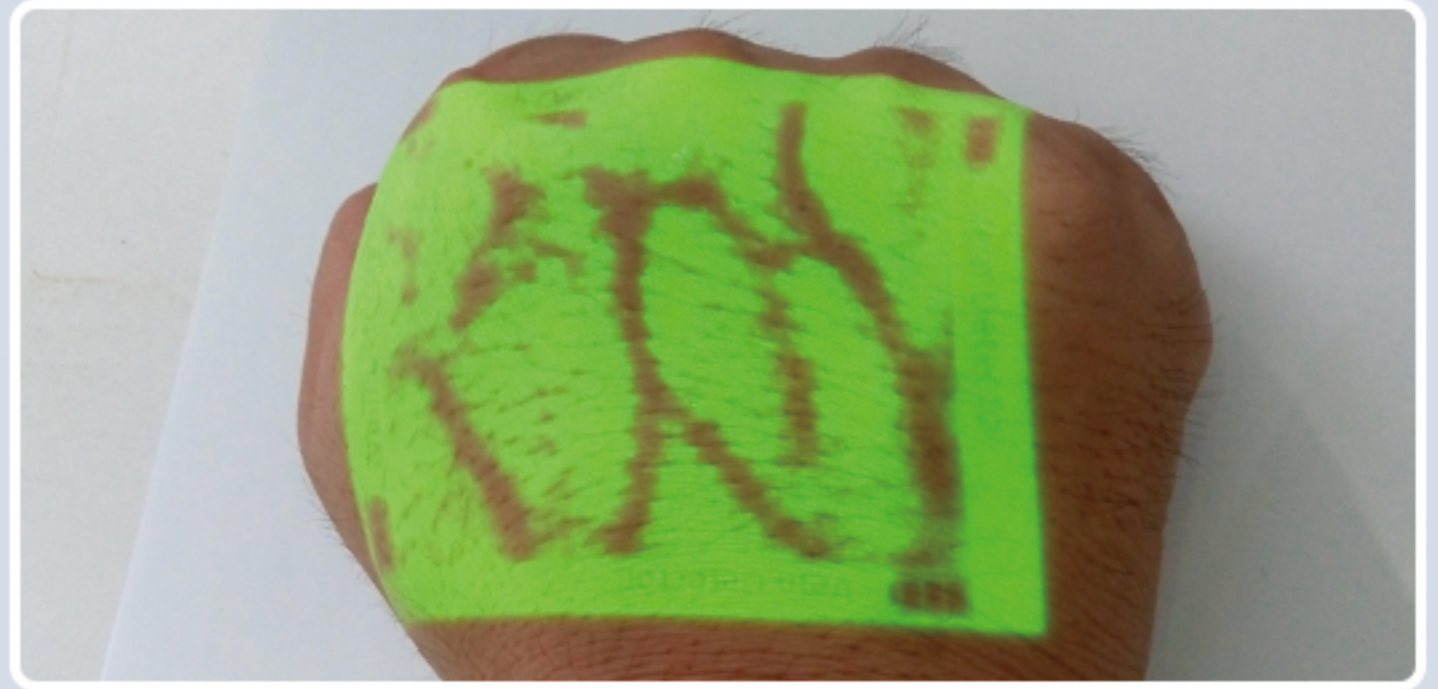
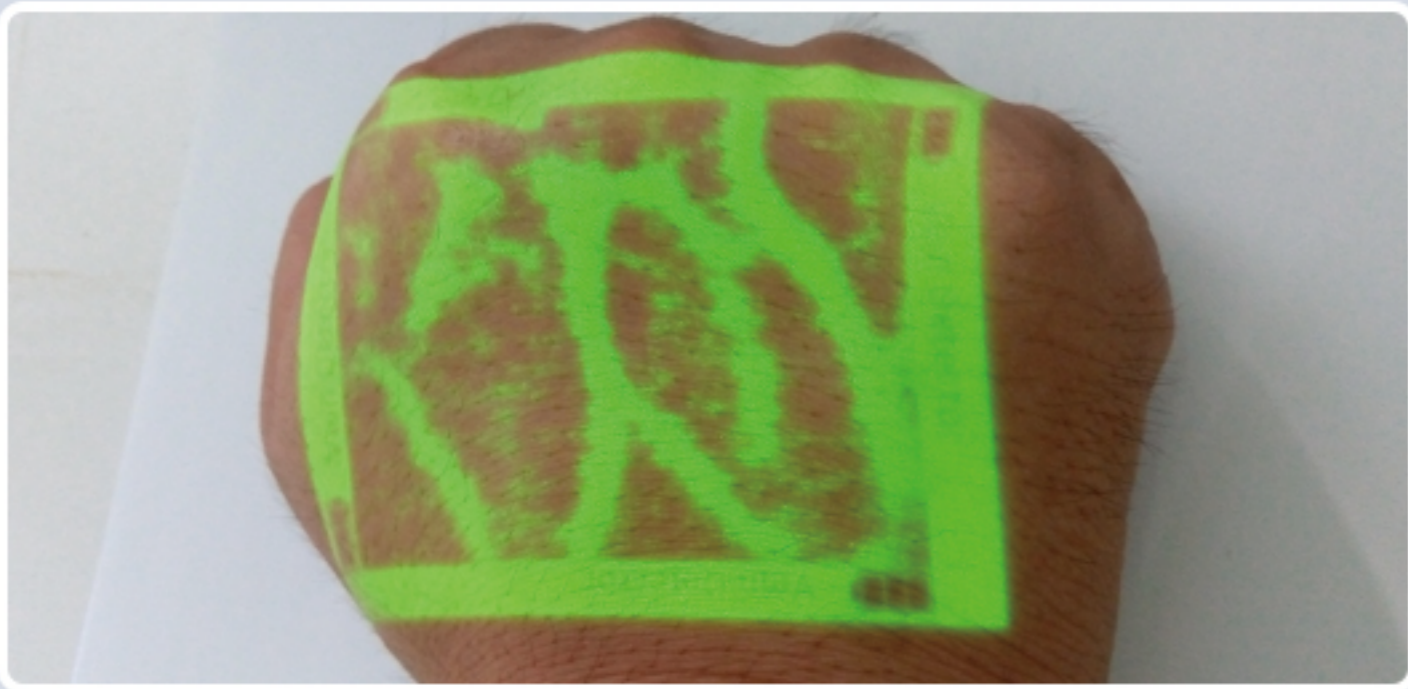
Focus on children's tiny veins and reduce distraction.

○ Bright Mode



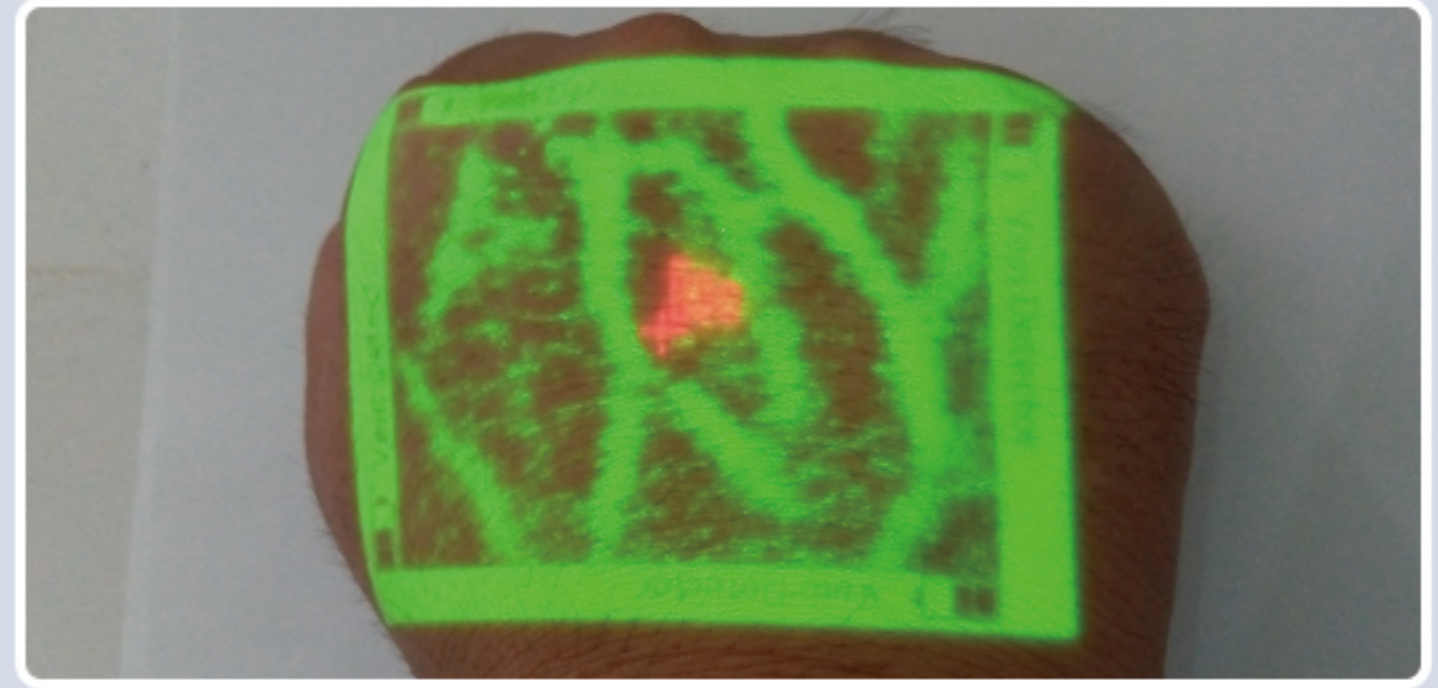
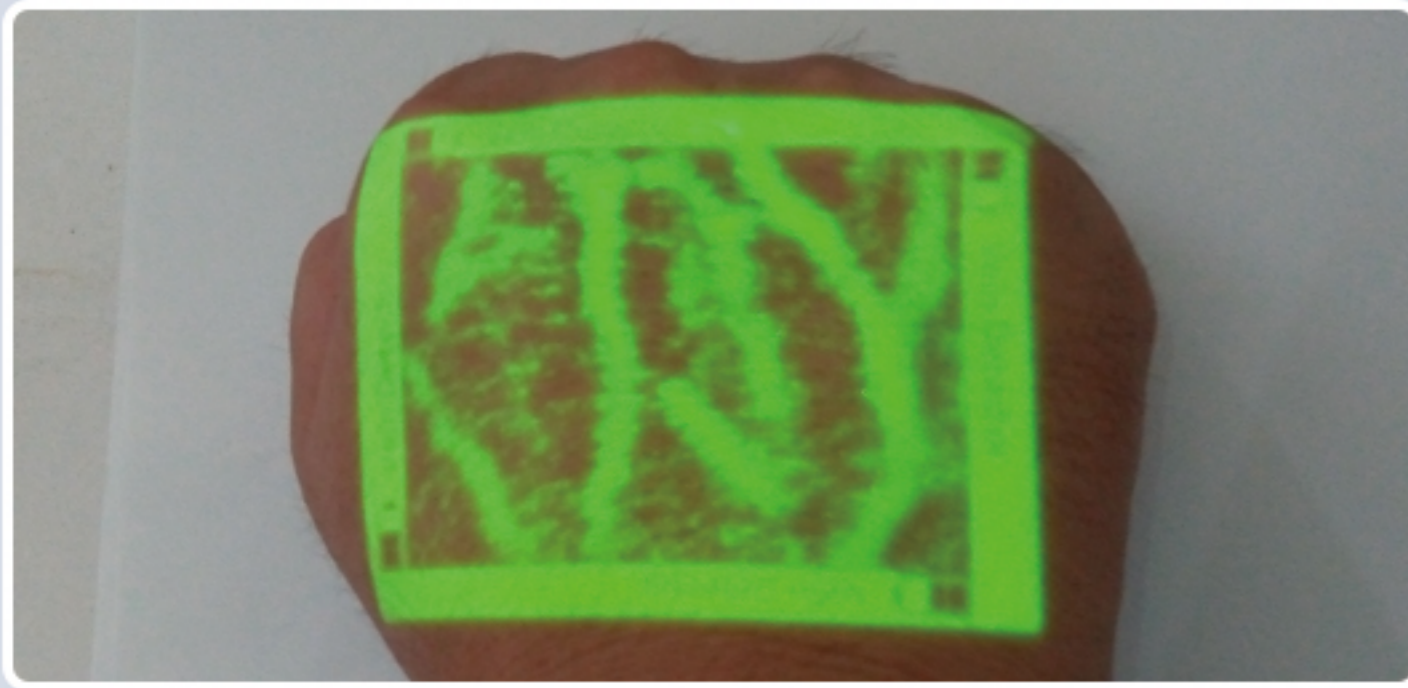
Stronger infrared to improve reflection of veins, show the veins more clearly.

○ BWCC Mode



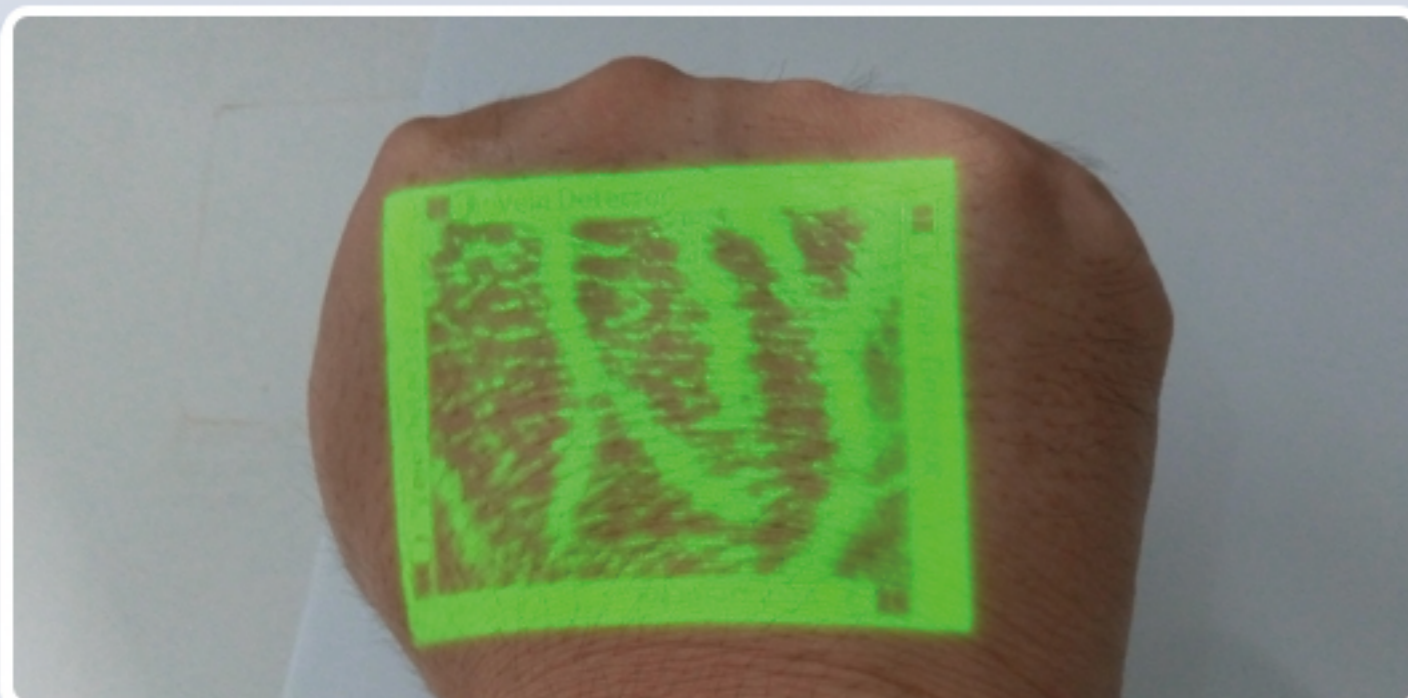
Switch background-setting to show veins with different comparison.

○ Depth-recognition Mode



Assisting for detect the depth of veins especially when patients' veins are deeper under skin with fat.

○ Enhanced Mode



With accessory's infrared through patients' body and against the Vein Detector's infrared, this mode could largely improve the appearance and comparison of veins, especially for obese and senile patients.

○ Pause Mode: Pause for power-saving and standby to back to work at once.

Technical Specification of VE-40

| | |
|----|---|
| 1 | Imaging Method: DLP in-situ projection, non-laser |
| 2 | Maximum Detection Depth: $\geq 10\text{mm}$ |
| 3 | Infrared Wavelength: 850NM |
| 4 | Rated Power: 25VA |
| 5 | Standby Time: ≥ 180 min |
| 6 | Charging Time: 3 hours(Off state) |
| 7 | Image Resolution: 854 × 480 |
| 8 | Projection Brightness: 1W 20 Lumens (adjustable) |
| 9 | Alignment Accuracy: $\leq 0.2\text{mm}$ |
| 10 | Best Imaging Distance: 200mm to 250mm |
| 11 | Main Unit: Weight $\leq 0.5\text{KG}$, length $\leq 220\text{mm}$ |
| 12 | Projection Color: white, green, red, three colors can be switched. |
| 13 | Working Mode: normal mode, children mode, color mode. |
| 14 | Function:depth recognition (three depth hints),brightness adjustment |
| 15 | Processor: Intel ® Atom |
| 16 | Operating Environment: WIN 8.1 operating system |
| 17 | Frame Rate: >30 frames/second |
| 18 | Stand: Table Stand / Trolley (optional) |
| 19 | Charging Method: charger (main unit and base can be separated) |
| 20 | Infrared Emission Mode: Up-infrared illumination and Down-infrared illumination can be switched |

○ Clinical Cases



Children: Vein detector helps to show children's tiny veins and increase success rate.



Elder edema patients: Older patients with bad vascular situation and severe edema which veins cannot be observed by eyes, with the Vein Detector's assistance, veins are clearly appeared.



Geriatric: Old patients' veins are very senile and feeble, sometimes very hard to identify, with the assistance of Vein Detector, veins are clearly appeared.



Obese: Due to the fat under skin, obese patients' veins are always very difficult to observe, with accessory's cooperation, veins are clearly appeared.



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