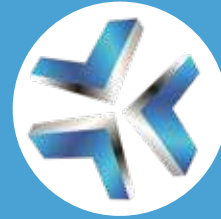


Portable Vein Finder for Vein Visualization on Peripheral IV Procedures

(VD80 & VD88)



OPTIQUETM MEDICAL

Changing And Growing with You

Vein Finder for Vein Visualisation on Peripheral IV Procedures

**NEW ADVANCED TECHNOLOGY :
NO LASER OR RADIATION EMITTED.**



Product Description:

The Vein Detector is a medical observation tool, mainly composed of a main board, a display screen, a camera, and an LED light source. Taking advantage of different absorption of near infrared light with different wavelength by oxyhemoglobin in surrounding tissues and vessels, after photoelectric conversion and image processing, the information is finally turned to be clear display of veins on the screen. It is used to find veins at ease, observe search for subcutaneous superficial blood vessels and for assisted puncture, such as assisted venous diagnosis and intravenous injection.



Features:

1. The Windows system fully digital computer processing system provides a stable operating environment Instantaneous image acquisition, fast response, self scanning function, small image distortion, no afterimage After processing the image through a high performance computer Intel quad core processor, the image is precise, clear, and accurate.
2. Color adjustment According to different people's sensitivity to light color,color," green, white," the three color modes switch freely Projected images are more realistic and have higher clinical accuracy.
3. Brightness adjustment: Use the brightness adjustment to change the brightness of the projected image depending on the ambient brightness Improve projection quality, reduce environmental constraints, and adapt to multiple scene modes

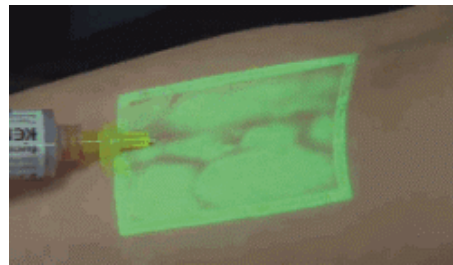


Features:

4. Color adjustment According to the sensitivity of each person to the light color, the "green, white," three color modes are arbitrarily switched Projected images are more realistic and have higher clinical accuracy.
5. Black and white reverse Use black and white inversion to adjust the switching between vein display and background color The combination of the three light color modes gives the use more realistic, clearer, and more accurate venous vessel positioning during clinical use.
6. Depth identification provides more specific vein location, can be used in the cardiovascular department for bypass surgery when accurate positioning of stripping veins is necessary, and more departmental areas, further improving the accuracy for clinical diagnosis.
7. Child mode The area of the projected area is reduced in size and the processing of vein images is more meticulous Reduce bidirectional pain caused by children's injection problems

VD88/VD80 Product Advantages:

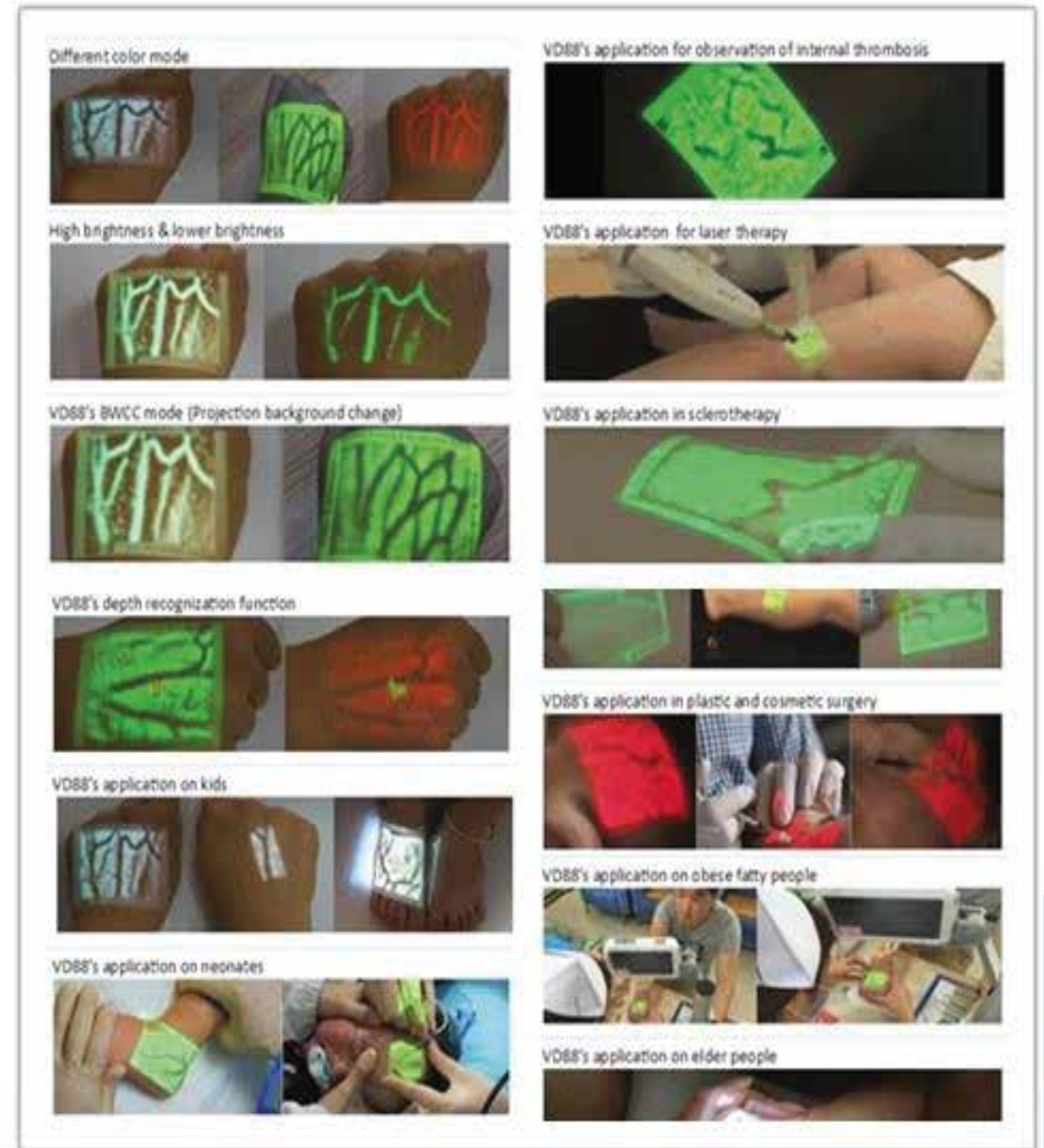
1. Worldwide first class DLP (Projection light source) projection technology inside which same as VeinViewer
2. Windows system and Intel quad core processor to support processing ability of image
3. Frame rate is more than 30 frames per second which same performance as Vein Viewer
4. Real time display of vein and has clear imaging resolution
5. No dragging and lagging image, no sense of cartoon animated drawing due to delayed image.
6. Does work on adult, pediatrics and neonates
7. Works on different color skin.
8. 3 color mode “green, red & white”; Projection background can change.
9. Depth recognition function



Clinical Application

- Injecting Section Helps intern nurses to complete injections. To solve the problem of injection difficulty for people of obesity, with small blood vessels or too dark skin, etc. whose veins are hard to find.
- Cosmetology For basic facial injections of hyaluronic acid, water light, botulinum toxin, collagen, etc. Avoid the serious consequences of injection errors.
- Cardiology Precise positioning for dissection of veins that is needed during bypass surgery.
- Dialysis Monitors the patient's real time blood flow during hemodialysis.
- Peripheral angiography lighting peripheral vessels of the patient and helping the doctor diagnose the condition.

And more departments that need to observe veins for diagnosis or experiments, in addition to universities, nursing colleges, laboratories, and so on. You can use a vein visualization device to help observe veins for assisted support.



Working Modes:

White Light



Green Light



Red Light



Green Light reverse
& Low Brightness



Red Light reverse
& Lower Brightness



Green Light Reverse



Comparison of similar products

Products/Company	Vein Detector (VD 80)	Accuvein	VeinViewer	VIVO
				
Projection light source	DLP (clear, pure color), Image resolution 824x480 (without intensifier)	Laser (potential damage to eyes)	DLP (clear, pure color)	Lcos (dazzling, the color is not pure)
Core processor	Windows system and Intel quad- core processor , processing ability	Laser galvanometer scanning	Windows system and Intel processors	ARM processor, poor processing ability
Frame rate	> 30 frames per second (Strong real-time sense)	Real-time (no frame rate concept)	>30 frames per second (Strong real-time sense)	<12 frames/sec (sense of animated drawing [cartoon] due to delayed image)
Depth recognition	Yes	No	No	Yes
Child mode	Yes	No	Yes	Yes
Color transformation	Yes	No	Yes	Yes
Black and white flip	Yes	No	Yes	Yes
Imaging resolution	Clear & fast	Must in specific imaging angle	Clear	Dragging and lagging image

Products



Vein Detector
Model: VD88
Table-top



Vein Detector
Model: VD88
With trolley /
Moving Cart

Products

Vein Detector Model: VD80
Handhel



Vein Detector Model: VD80
Table-Top



Vein Detector Model: VD80
With Trolley / Moving Cart



VD88 VS VD80

VD - 88 Spec

- 1 Display mode: DLP In place projection and no laser
- 2 The deepest distance: Up to 6mm
- 3 Infrared wavelength: 850NM
- 4 Power Consumption: 25VA
- 5 Standby time: ≥180min
- 6 Charging time: 3hours(Off condition)
- 7 Image Resolution: 824x480
- 8 Projector brightness
1W 20 Lumen Adjustable
- 9 Position Accuracy : : ≤0.2mm
- 10 The best distance 200MM~250MM
- 11 Weight 0.69KG Dimension 22.3cm*12.3cm*4.4cm
- 12 Projection color white , green, red and switchable
- 13 Working Mode: Normal mode, Child mode, Invert Colors mode
- 14 Features: Depth recognition (mark of three kinds of depth), brightness adjustment
- 15 Processor Inter ®Atom
- 16 Operation environment: Win8.1 operating system
- 17 Frame rate 30 frames per second
- 18 Bracket: moving trolley or Table top Bracket



VD - 80 Spec

- 1 Display mode: DLP In place projection and no laser
- 2 The deepest distance: Up to 15mm
- 3 Infrared wavelength: 850NM
- 4 Power Consumption: 25VA
- 5 Standby time: ≥180min
- 6 Charging time: 3hours(Off condition)
- 7 Image Resolution: 824x480 (without intensifier)
- 8 Projector brightness 1W 20 Lumen Adjustable
- 9 Position Accuracy : : ≤0.2mm
- 10 The best distance 200MM~250MM
- 11 Main unit weight: ≤0.5KG, Length: ≤200MM
- 12 Projection color white , green, red and switchable
- 13 Working Mode: Normal mode, Child mode, Invert Colors mode
- 14 Features: Depth recognition (mark of three kinds of depth), brightness adjustment
- 15 Processor Inter ®Atom
- 16 Operation environment: Win8.1 operating system
- 17 Frame rate 30 frames per second
- 18 Bracket: moving trolley or Table top Bracket(Optional)
- 19 Charging: base charger (host and charger can be separated)
- 20 Infrared emission method: switchable between upper infrared light and below infrared light.



Accreditation

MHRA Registration



CE



FDA



EC Confirmative

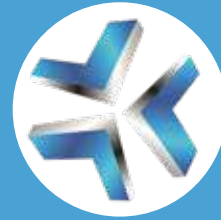


Other Territories sold:

- USA
- Argentina
- Brazil
- Greece
- Spain
- Bulgaria
- Romania
- UAE
- Oman
- Bahrain
- Sudan
- Algeria
- Turkey
- Korea
- Philippines
- Malaysia etc.



Thank You



OPTIQUETM
MEDICAL

Changing And Growing with You