



VEINSIGHT | VS500

Product Introduction



1

Vein Visualization Introduction

BLZ Technology (Wuhan) Co., Ltd.



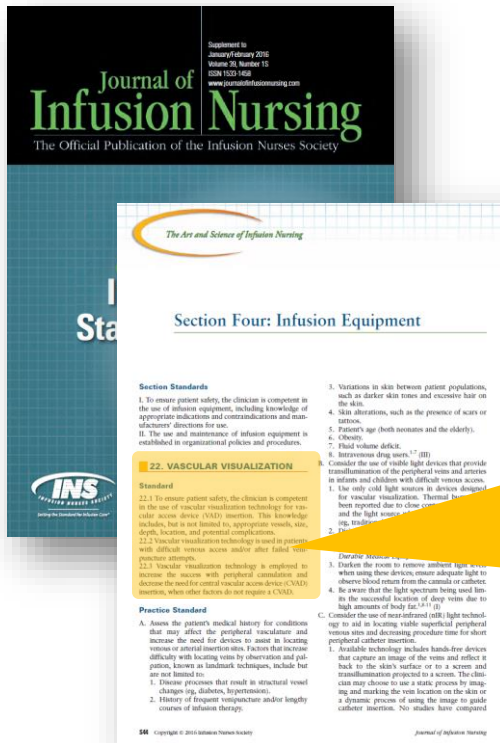


Vein access challenges

- Reduced vessel options due to blood loss
- Small Size and fragility of vessels
- Shock induced vasoconstriction
- Edema or fatty tissue
- Multiple disease states
- Dehydration
- Hypertension
- Skin tone



Vein visualization technology is recommended by *Infusion Therapy Standards of Practice 2016*



22. VASCULAR VISUALIZATION

Standard

22.1 To ensure patient safety, the clinician is competent in the use of vascular visualization technology for vascular access device (VAD) insertion. This knowledge includes, but is not limited to, appropriate vessels, size, depth, location, and potential complications.

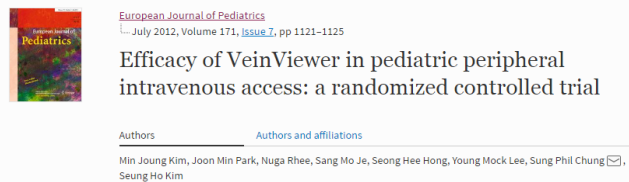
22.2 Vascular visualization technology is used in patients with difficult venous access and/or after failed venipuncture attempts.

22.3 Vascular visualization technology is employed to increase the success with peripheral cannulation and decrease the need for central vascular access device (CVAD) insertion, when other factors do not require a CVAD.

Increase first-attempt success rate

Korea Yonsei University research: Vein imaging technology can significantly increase the first-attempt success rate, especially for the difficult vein puncture patient.

DIVA	Not Using Vein Finding Technology	Using Vein Finding Technology
First-attempt Successful rate	25%	58%



European Pediatrics journal, SCI Impact Factor 1.791, since 1910.

Increase vein puncture efficiency

Chang Gung Memorial Hospital research: Vein imaging technology can significantly increase the vein puncture efficiency

Children	Using Vein Finding Technology	Not Using Vein Finding Technology
Vein finding time (s)	126.±26	383±112
First-attempt success rate	56.7%	33.3%
Total time of attempts (s)	186±38	497±123

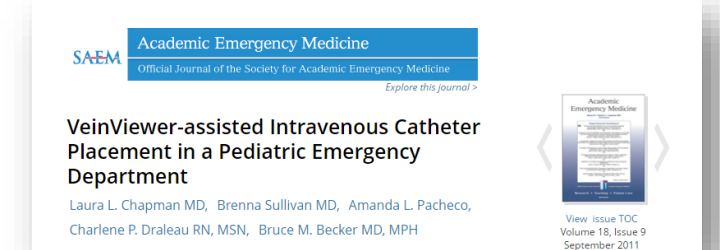


Pediatrics and Neonatology, SCI Impact Factor 1.231

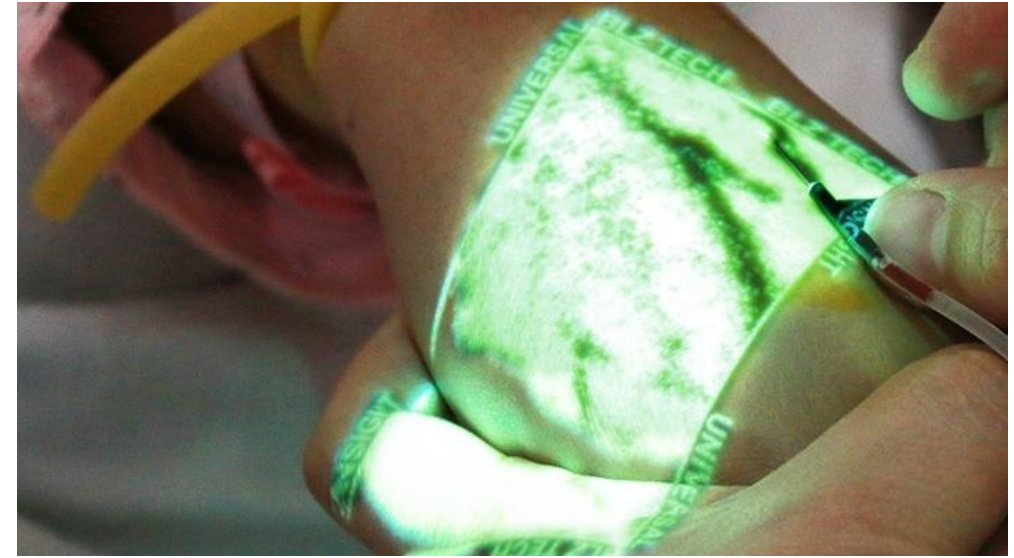
Decrease catheter placement time

Hasbro Children's hospital, the Brown Alpert Medical School and Rhode Island Hospital(ALP): Vein imaging technology can help to decrease the puncture time during catheter placement in pediatric emergency department.

0-2 years	Using Vein Finding Technology	Not Using Vein Finding Technology
Catheter placement time	121	167



SAEM Academic Emergency Medicine, SCI Impact Factor 2.537



Function:

It provides a real time accurate image of the patient's superficial vein pattern of any part of body on skin.

2

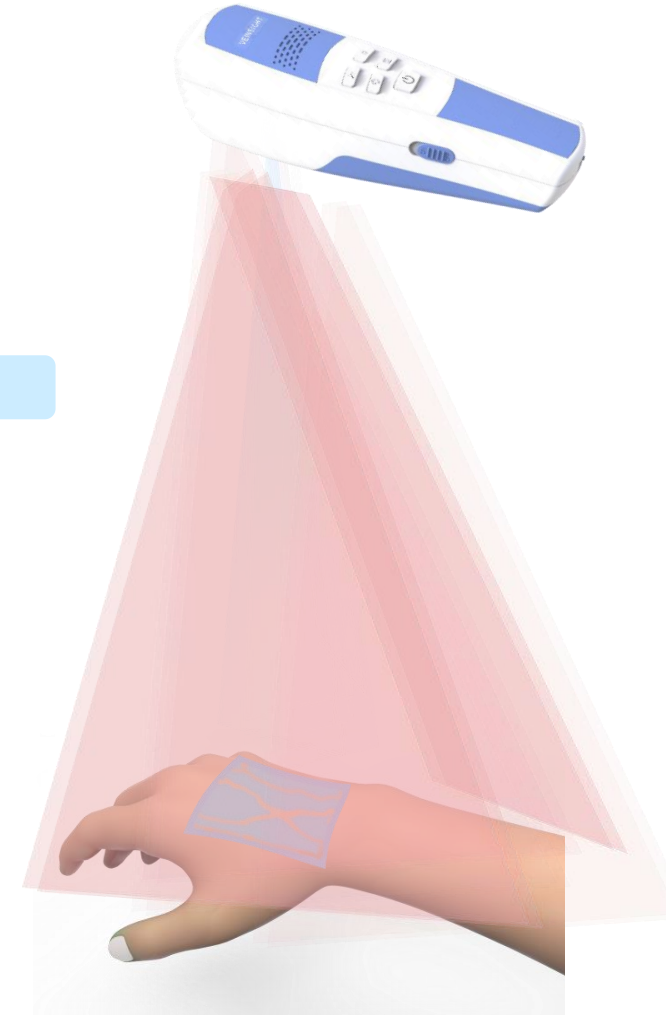
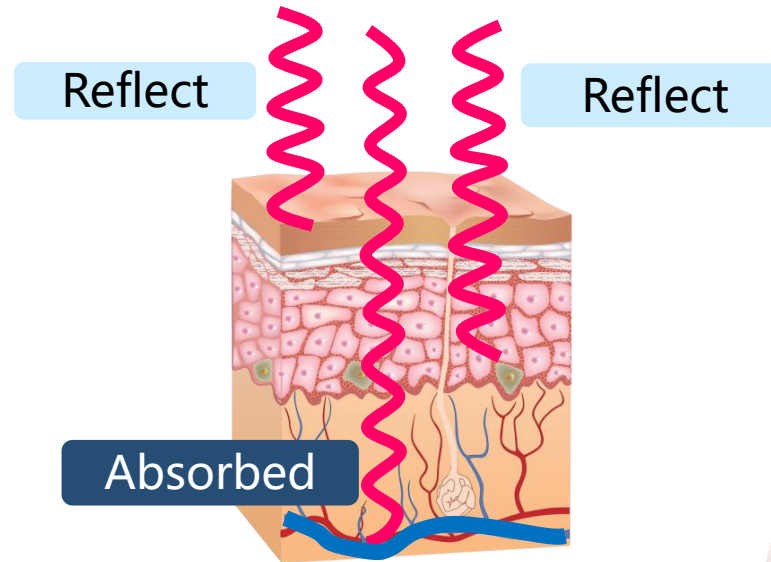
Product Introduction

BLZ Technology (Wuhan) Co., Ltd.



Principle:

VeinSight™ vein finder projects near-infrared (no radioation) light which is absorbed by blood and reflected by surrounding tissue, and this information is captured and processed, finally projected in real time directly onto the surface of the skin.



Excellent Product Design & Abundant Technical Strength

▲ More than 10 Awards



▲ More than 10 Patents



Strict Quality Control & Authoritative certification



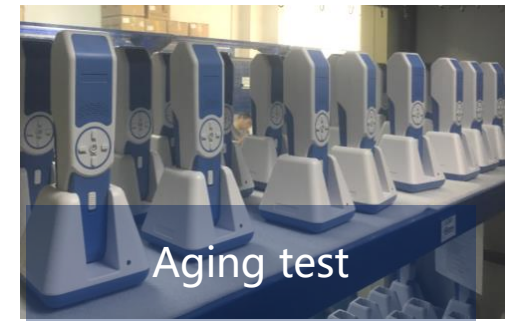
Checking device



Product checking



Temperature humidity chamber



Aging test

US FDA & Europe CE & EN ISO 13485 QMS

First-class devices, 12 inspection technology

VEINSIGHT Series

Vein Finder



VS100

VS200



VS300



VS400



VS500



reddot winner 2020

Red Dot Award:
Product Design 2020
Innovative Product 2020

3

Over 3 global unique
core functions.



30%

Performance
increased by
more than 30%.*




Authoritative
announcement
agency certificated.

* Compared with VeinSight VS400 vein finder.






Fine Mode

Short press  can achieve switching mode between universal mode and fine detail mode.



Depth Mode

Long press  can switch to depth mode.





Brightness

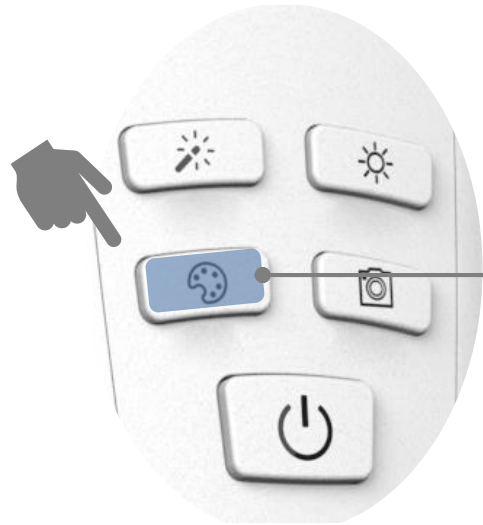
Short press ☀️ can achieve brightness switching. There are 5 degrees of brightness.




Size

Long press ☀️ can change the vein image sizes. There are three projection sizes to choose, full size, 2/3 size and 1/2 size.





Color

Short press  can change the projection colors. There are five projection colors to choose.



Inverse


Long press  can inverse the vein image. The projection of the blood vessel is dim by default.





Image Capture




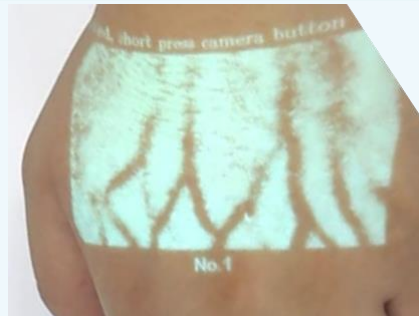

Short press  can freeze the image, then long press can save the image, then short press again this button will back to default mode.

Image Gallery



Long press  can enter the image gallery. In this mode, short press this button can switch the saved image, long press again will exit this mode.





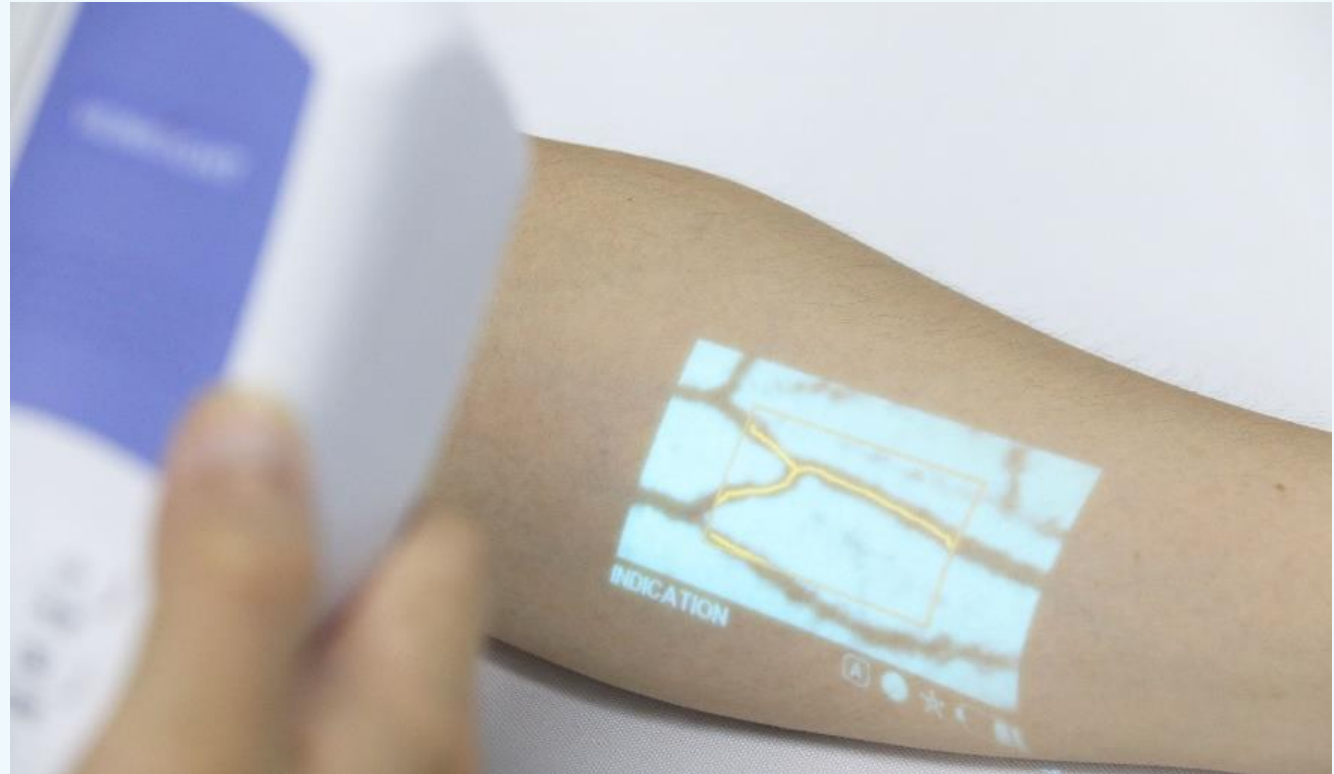
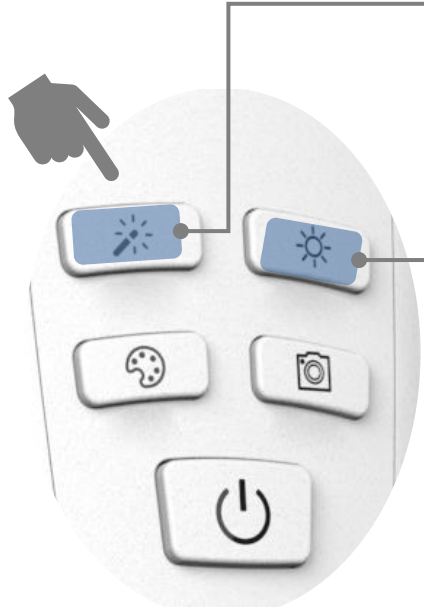
- **VS500 can capture vein images with one click and support exporting pictures to computer.***
- Vein puncture training, surgical planning, many medical operations need to record veins distribution and conditions.

* To export the vein images from VS500 to the computer, you need to install the specified software.

Vein Image Center Guide

Unique feature in the globe market

Short press  +  together will enter the venipuncture point hint mode, short press can exit this mode.





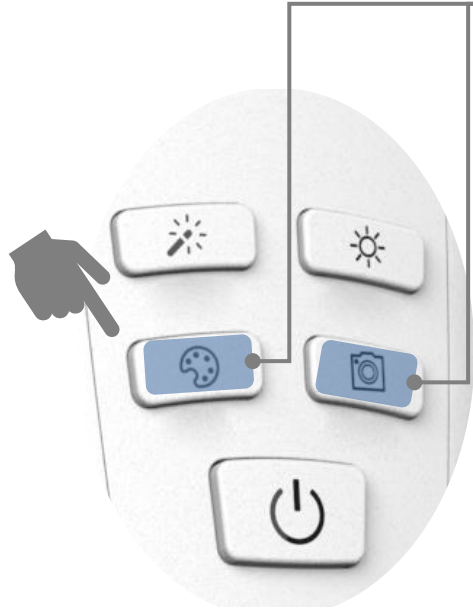
Intelligently indicate the projection distance
Easily make an accurate projection

Unique feature in the globe market

When the distance is not good, the indicator in the status bar displays as ●






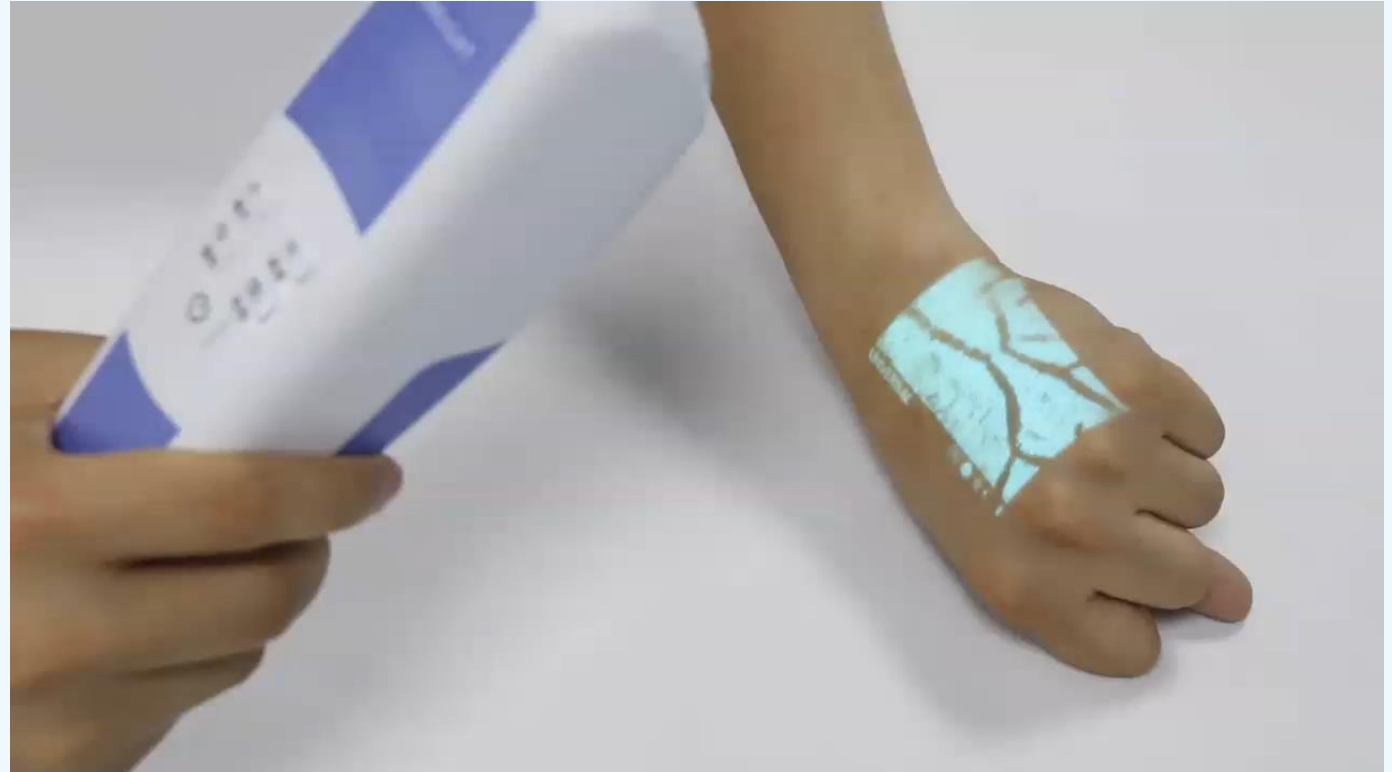
At the best display distance, the indicator on the status bar displays as ●



Distance Sensing

Unique feature in the globe market

Short press  +  together can turn on or off the Distance sensing function. When the Distance sensing function is on, there will be an  at the downer-right corner of the image.





VS500
Vein Finder



VS500-SP1
Mobile Support



VS500-SP2
Fixed Support



VS500-SP3
Desktop Support

2 Product Application

BLZ Technology (Wuhan) Co., Ltd.



Vein Visualization

- Vein position, size
- Vein direction, bifurcation
- Hemadostenosis, Lesion
- Venous sinus
- Vein slide, Hematoma
- Infused liquid flow

Clinical effects

- Find more veins for puncture
- Evaluate vein condition and lesion
- ↑ Increase first-attempt successful rate
- ↑ Increase vein puncture efficiency
- ↓ Decrease target vein finding time
- ↓ Decrease medically unnecessary PICC

Extend effects

- ↑ Increase patient/customer satisfaction
- ↑ Increase hospital/clinic reputation
- ↓ Decrease hospital/clinic costs and risks
- ↓ Decrease nurse working pressure

Pre-puncture assessment

To check filling degree of blood in veins



Puncture Assist

Flowing condition of monitored medical solution in veins



Post-puncture Tracking

Judging whether there is a haematoma after intravenous injection



Infant opisthenar



Infant forehead



Infant ankle



Oncology



Aged patient



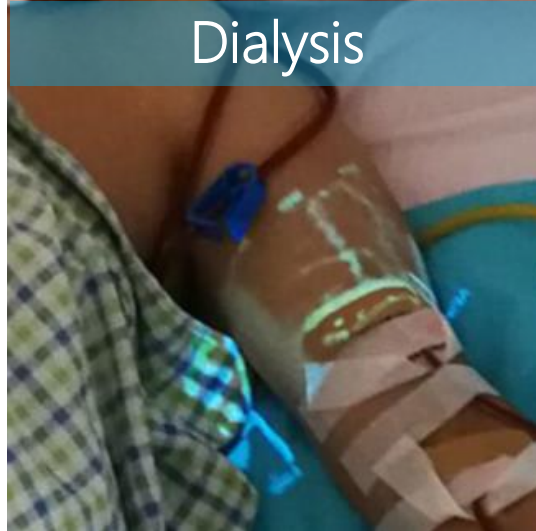
Dark skin



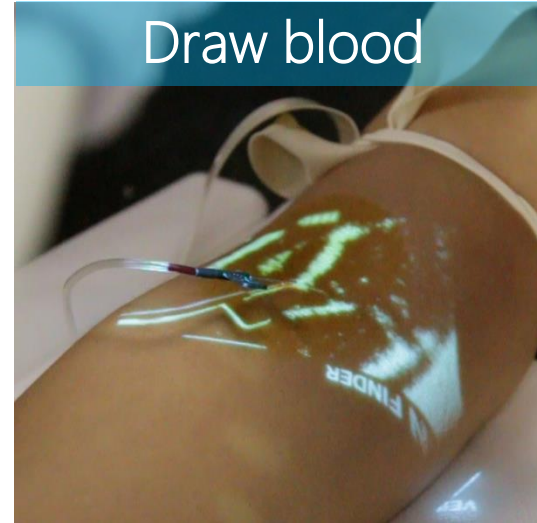
Dark skin (Fat)



Dialysis



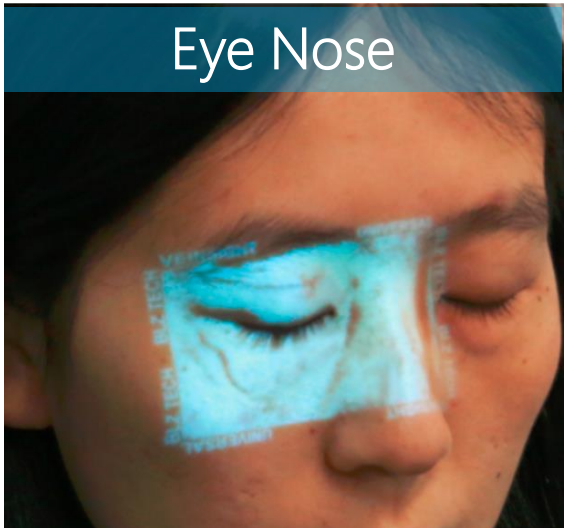
Draw blood



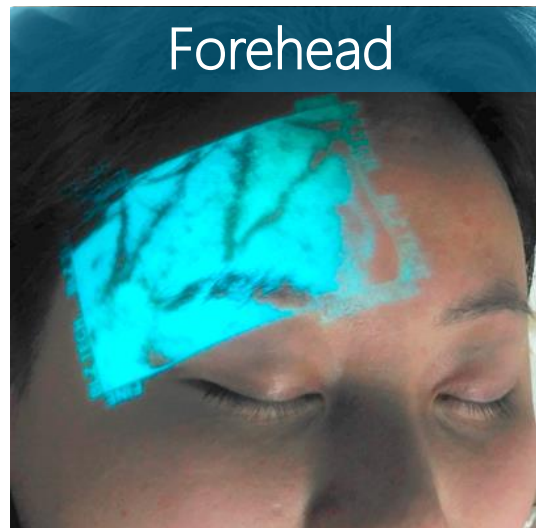
Scar skin



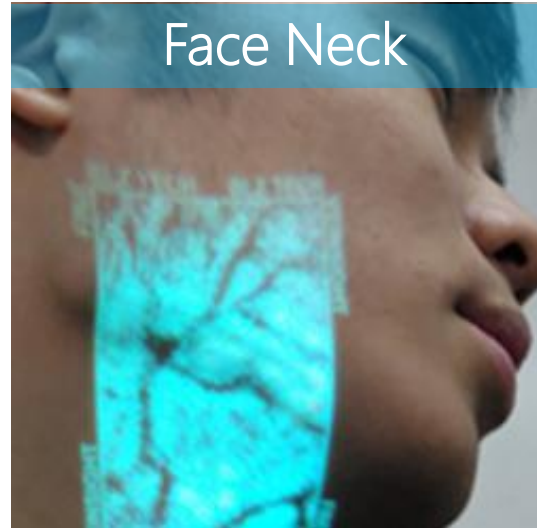
Eye Nose



Forehead



Face Neck



Varicosity





Pediatrics

- Small veins
- "Baby fat"
- Anxiety of the children and their families.



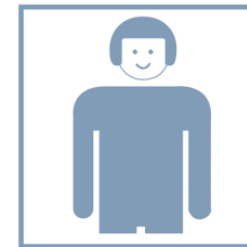
Emergency

- No light or dim environment,
- High pressure, Fast-paced, etc.



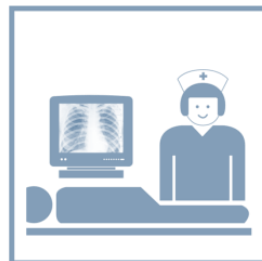
Oncology

- Fewer options for successful access because of repeated infusions and procedures and medication



Geriatrics

- Vein poor filling
- Vein sliding during puncture
- Age pigment interference



Radiology

- Limited viable patient access
- Should puncture the big and straight veins



Laboratory



Pre-operation



Outpatient





Plastic Surgery

- Cosmetic injections on the face



Vascular Surgery

- Sclerotherapy for treating spider telangiectasia



Thank You!

 www.veinsight.com/en

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