

# Wuxi Biomedical Technology Co.,Ltd

## BIO BS300 Vein Finder / Vein Illuminator

[www.portable-ultrasound-scanner.com](http://www.portable-ultrasound-scanner.com)

Email:sales@cnbiomedical.com Tel:86-510-85572789

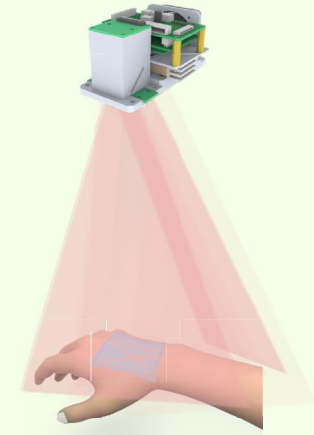
### Principle

**Function:**

It provides a real time accurate image of the patient's blood pattern of any part of body.

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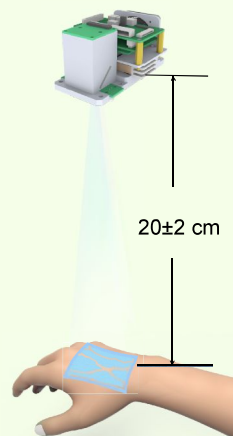
VeinSight™ vein finder projects near-infrared (no radiation) light which is absorbed by blood and reflected by surrounding tissue, and this information is captured and processed, finally projected in real time directly onto the surface of the skin.



### Function

- No radiation: Near infrared light at 850nm
- Skin penetrability: Depth  $\leq 12\text{mm}$
- Vein position accurate: Accuracy at 0.25mm

- No artery image: Artery are deeper, less sensitive infrared .
- No depth information: Two-dimension graphic



### Applicable Patient

- Fat patients
- Edema patients
- Dark skin
- Infants
- Children
- Old patient
- Plastic Surgery
- Vascular Surgery

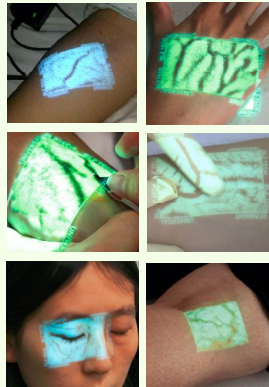
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## Application Type

### Application Type

- **Target vein quike finding:** Helpful for finding the target veins efficiently and easily
- **Guidance for venipuncture:** Provide a more clear vein view, Indicate the vein position, trend, branch, crossing
- **Vein evaluation:** Evaluate the vein filling condition
- **Aesthetic medical injection:** Helpful for medical staffs to avoid the veins
- **Feeder vein treating:** Helpful for finding more feeder veins and treat throughly, make the feeder treating visable



## Application

### Venipuncture

Helpful throughout the whole venipuncture procedure.

#### • Before venipuncture:

Helpful for finding the invisible veins and the special veins efficiently and easily, evaluate the vein condition.

#### • During venipuncture:

Shows the vein position, trend, branch, crossing

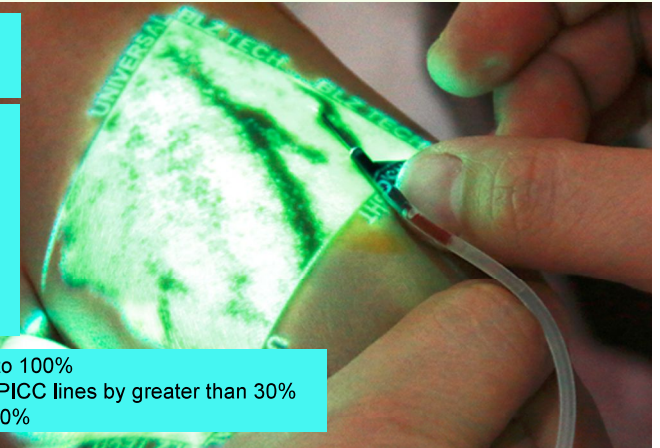
#### • After venipuncture:

Check the hematoma ; Check the injection liquid flow.

• Increase first stick success by up to 100%

• Decrease medically unnecessary PICC lines by greater than 30%

• Increase patient satisfaction by 100%



## Application

### Aesthetic Facial Injection

- Accidentally hitting a vein during injection of fillers and other cosmetic facial treatments can cause intense pain and facial bruising (damage).
- Veins in the area indicated in the right image is visible by VeinSight™ vein illuminator, the visibility of the veins locted on the other area depends on the facial veins and musle condition of patient.



## Applicable Department



### Pediatrics

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



### Oncology

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



### Radiology

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



### Plastic Surgery

- Sclerotherapy for treating spider telangiectasia
- Cosmetic injections on the face
- Increasing patient satisfaction.



### Vascular Surgery

- Sclerotherapy for treating spider telangiectasia
- Vein stripping treating

## Applicable Department



Emergency\*



Pre-operation\*



Outpatient



Laboratory

Should face number of vascular access challenges

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

\*Other: on light or dim environment, high pressure, Fast-paced, etc.

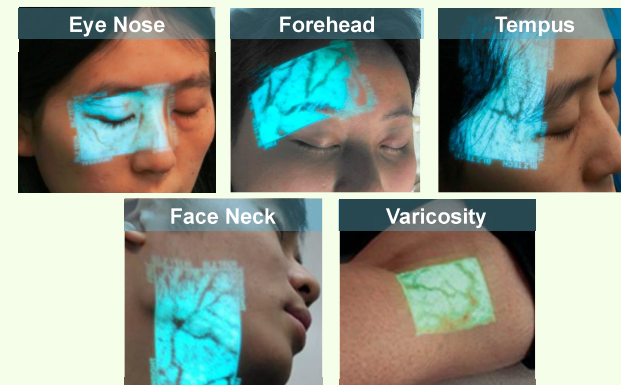
## Application



## Application



## Application



## BS300 Parameters

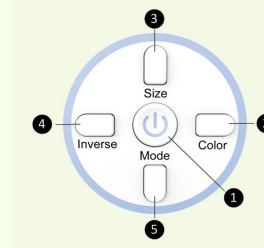


BS300 Handheld Model

### BS300 Main Unit Information

Light type: Near-infrared light
Infrared wavelengths: 850 nm
Image resolution: 720*480
Visible Vein Size: ≥1mm
Accuracy: 0.25mm
Depth of Visible Vein: ≤12mm
Best projection distance: 200±20mm
Image frame rate: 20FPS
LED lifetime: 20000 hours
Power Supply: DC 3.7V, ≈3.5W
Weight: 450±10g
Dimension: 240x60x60mm (LxWxH)
Battery volume: 4400mAH
Battery working time: ≈ 5 hours
Charging time: ≈ 3 hours
Battery detachable: Yes
Operating Mode: Handheld or Suspension

## BS300 Operation



Button	Function	Note
❶ Power	Power button	Switch on / off, Standby mode / Wake
❷ Color	Change displayed color 5 colors	For different patient skin tone and personal preference
❸ Size	Adjust image size, 3 sizes	For pediatric patients or when need to focus on only one vessel.
❹ Inverse	Switch dark and bright pattern	Reduce the interference of skin tone, density of hair follicles and room brightness.
❺ Mode	Adjust brightness 3 degrees	allow clinicians customizing the image brightness base on the environment light.
	Change mode Normal and Enhanced	Enhanced mode is useful for finding the deeper or smaller veins.

## BS300 Operation

