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Ultrasonic Vascular Doppler Detector (Bidirectional)

- **Systolic and diastolic blood flow waveform**

The Bidirectional Ultrasonic Vascular Doppler Detector can monitor the blood back flow, feed back the elasticity of vascular vessel wall, the state of vascular disease and the state of cardiac function



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BV-520T

Product comparison chart ›

BV-520T (Bidirectional)



Appearance difference	*Model difference*
Function	BV-520(Bidirectional)
Real time blood flow velocity display	✓
Rechargeable battery	✓
Probe frequency 8MHz	✓
Ultrasonic blood flow sound	✓
Optional software link PC	✓
Optional communication software box	✓
Real time blood flow waveform	✓
Blood flow unidirectional waveform	✓
Blood flow two-color bidirectional waveform	✓
The direction of blood flow can be reversed	✓
Adjustable time and filter bandwidth	✓

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BV-520T

Bestman Ultrasonic Vascular Doppler Detector (Bidirectional)

noninvasive blood flow detector

Clear sound quality
Intelligent noise reduction

Bidirectional detection
Automatic adjustment

Noninvasive velocity measurement
Accurate data

Widely usage
Powerful function

Patented technology
Unique software

CE
NMPA

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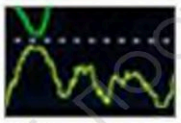
BV-520T

The measurement range can be set

Blood flow direction matic recognition



Green forward



Yellow reverse

The 8.0MHz high-sensitivity probe is used to detect the blood flow velocity and blood flow waveform in human vascular vessels, which is suitable for the health examination of peripheral vascular vessels of each limb segment of human body and the examination of recovery effect after anastomosis



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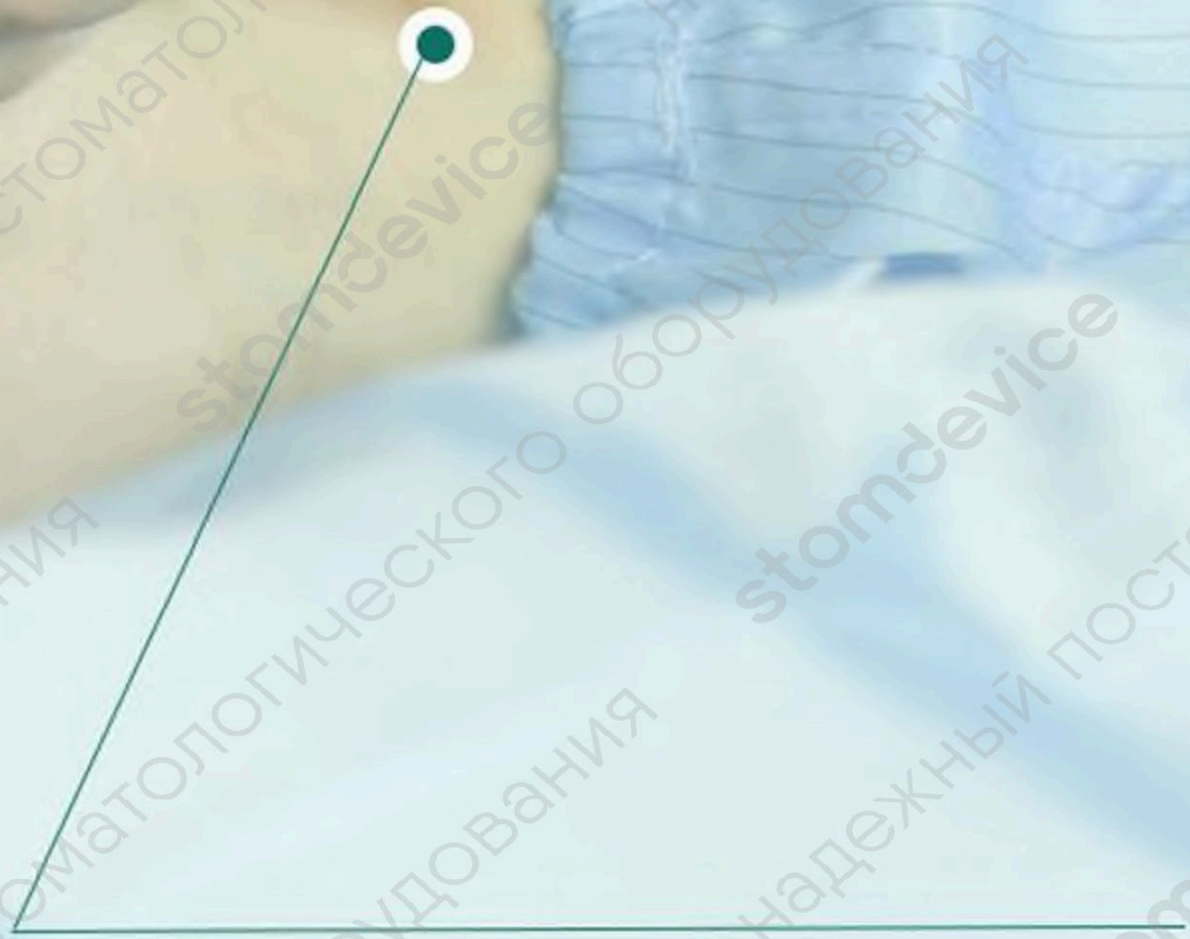
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Small size and easy to use

Portable, small size, built-in high-capacity rechargeable battery, easy to use and flexible to carry.

Convenient for doctors or professionals to test patients anytime and anywhere.

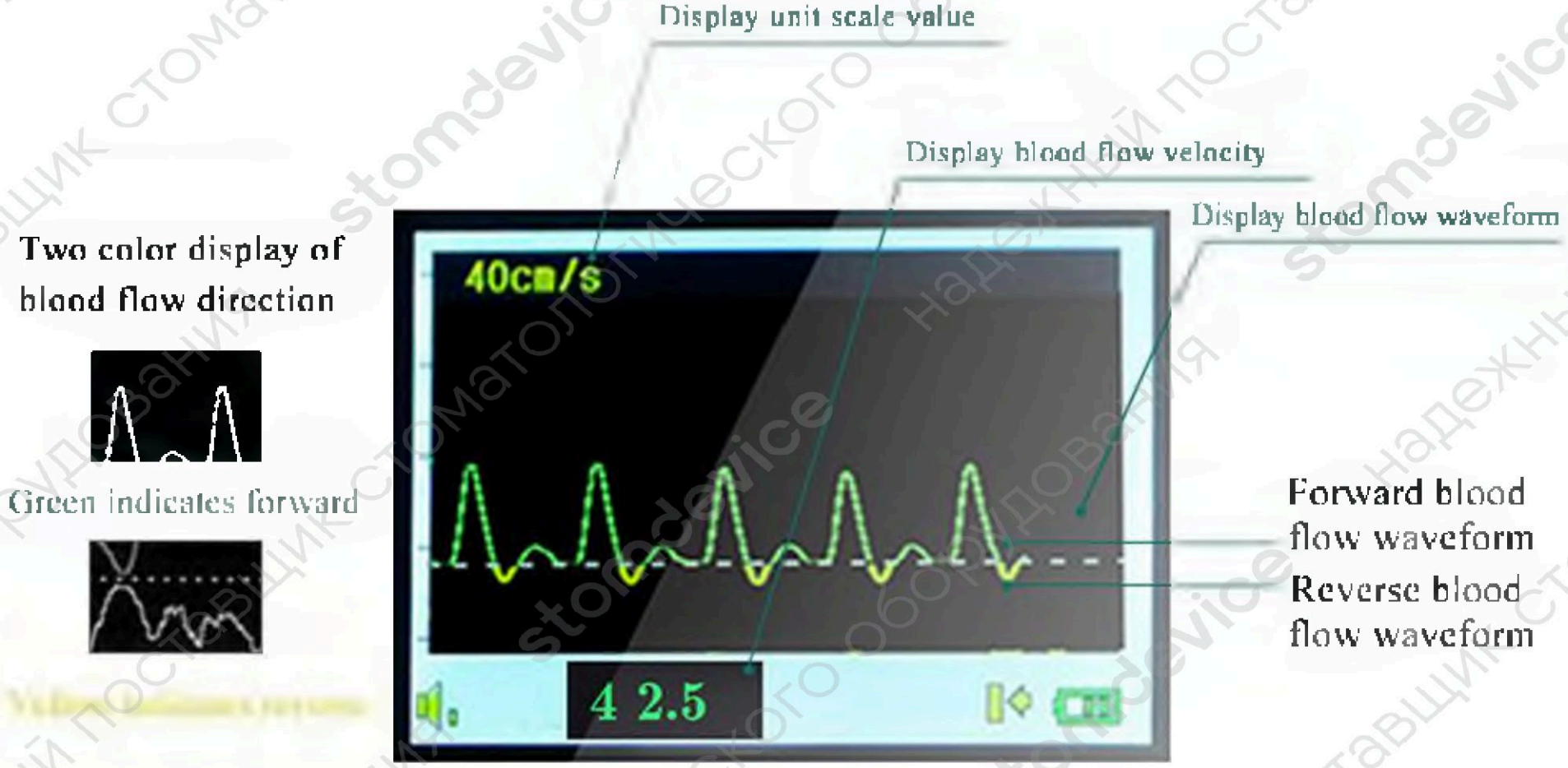


Find the artery, tilt 45 ° and touch the artery.

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High precision color display

BV-520T adopts 2.4-inch TFT display screen to display blood flow waveform, average blood flow velocity and time scale.



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Arteries and veins were distinguished before operation

After the artery and vein are detected by the probe, the sound and curve are different, so that the artery and vein can be distinguished



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BV-520T

Patented technology and unique software

Complete certificates and use reassurance

Class II medical device registration certificate has been obtained.

Registration Certificate No.: Guangdong Machinery registration standard 20172231863

Registration No.:ZL 2019 2 0477142.5 Patent No.: 2017SR727720

certification, domestic high standards, more assured.









Registration No.: 2017SR727720 Patent No.: ZL 2019 2 0477142.5

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Wide usage and powerful function



Endocrinology



Vascular Surgery



Orthopedics



Andriatrics



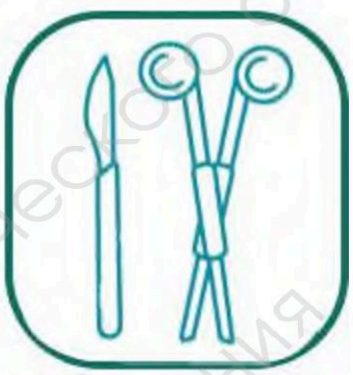
Trauma Surgery



Andrology



Burns



Surgery



Urology

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BV-520T

Ultrasonic Vascular Doppler Detector (Bidirectional)

Technical performance (optional PC software)

- **Doppler detector:**
  send ultrasonic waves to the human body through the detected part of the probe, detect different blood flow velocities, and obtain the information of blood flow in vascular vessels

- **Data interface:**
  it can be connected to the computer, equipped with vascular analysis and diagnosis software and data transmission cable, and can upload the waveform and data stored by the host to the computer.

- **Flexible probe button:**
  freeze waveform

- **Detection and storage:**
  automatically adjust the baseline and store 50 groups of waveform data

Clinical operation

- **Vascular surgery:**
  diagnose various peripheral vascular diseases and detect limb static artery stenosis and occlusion
  To understand the collateral circulation of blocked vessels; Identification and process examination of phlebitis

- **Cardiothoracic surgery:**
  peripheral vascular location

- **Department of burn and plastic surgery:**
  determine the position and recanalization of vascular vessels before and after operation

- **Functional department:**
  lower extremity blood pressure measurement; Speed trend analysis, drug treatment effect judgment

- **Orthopaedic trauma surgery:**
  check the anastomosis of limb vascular vessels and limb blood status after operation

- **Microsurgery hand surgery:**
  measure the blood status and vascular anastomosis of fingers and toes before and after operation

- **Andrology:**
  measure the blood flow velocity of penile artery and diagnose male reproductive system diseases, such as impotence and varicocele

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Technical parameter

- **External output**: Speakers
- **Emission waveform**: sine wave
- **Ultrasonic frequency**: 8.0MHz±10%
- **Average sound intensity of ultrasonic power**: ≤20mW/cm²
- **Speed measuring range**: 40 ~ 200cm/s
- **Speed measurement error**: ≤20% (relative error)
- **Power supply mode**: AC / DC operation
- **Input power**: ≤50VA;
- **Built-in Li-ion rechargeable battery**
- **Power indication**: green LED indication
- **Charging indicator**: when charging, the indicator is green, and the charging indicator goes out after the battery is fully charged
- **Overall dimension**: 70 * 130 * 40 (mm)
- **Net weight**: 250g
- **Environmental requirements:**
- **Working environment temperature**: + 5 °C ~ + 40 °C
- **Humidity**: ≤ 80%;
- **Atmospheric pressure**: 86kpa ~ 106kpa
- **Transportation and storage environment:**
- **Temperature**: - 10 °C ~ + 55 °C
- **Humidity**: - 10 °C ~ + 55 °C
- **Atmospheric pressure**: 86kpa ~ 106kpa

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Configuration list

1	Mainframe	x1
2	Probe	x1
3	Power supply	x1
4	Sling	x1
5	Instruction manual / warranty card	x1
6	Certificate of conformity	x1
7	Headphones	(optional)





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全球血流检测设备领航者

Operation Procedures



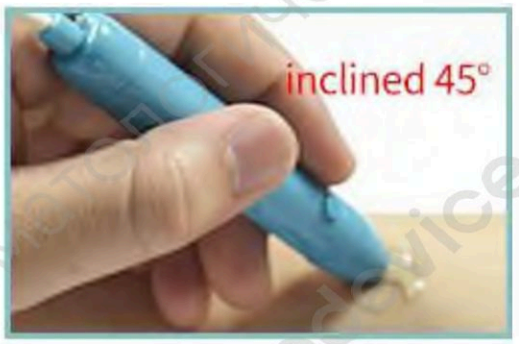
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Operation steps



Step 1:

The first step is to take out the ultrasonic probe and add an appropriate amount of couplant



Step 2:

The second step is to find the brachial artery, which should be inclined 45 ° to the artery (Note: do not side the artery)
Move slowly left and right to find the maximum sound position

Note: the probe is tilted 45 ° to make it easier to measure blood flow



Step 3:

Observe the blood flow waveform, fine tune the pressure up and down.

Find the best position and stay still

Read waveform and blood flow velocity



Step 4:

After the three parameters and blood flow waveform are stable

The waveform can be frozen when it reaches four screens



Step 5:

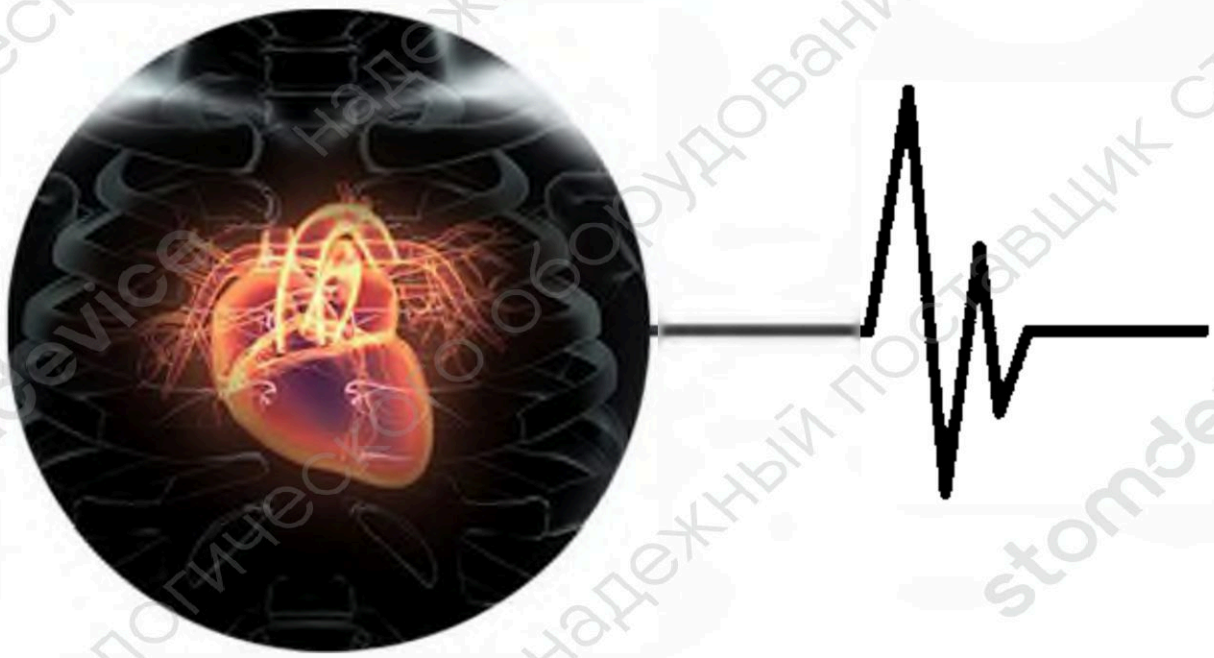
Press the freeze key to see the test results

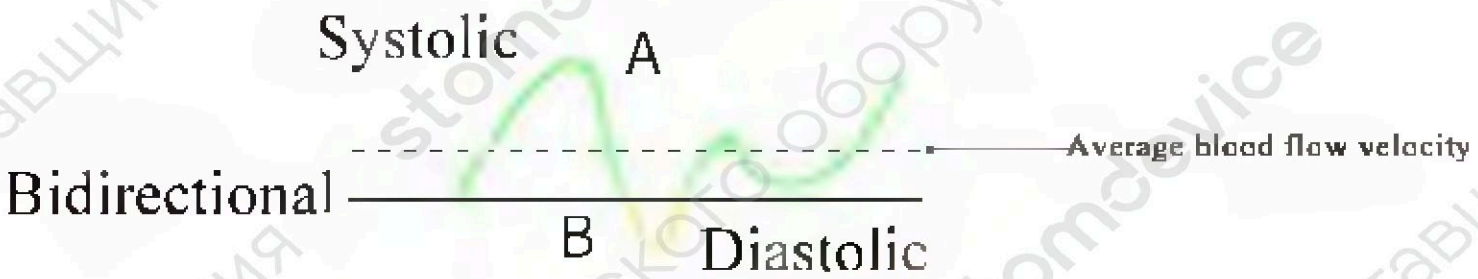
And automatically save it to the file

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BV-520T (Bidirectional)

The elasticity of vascular vessel wall can be judged according to the waveform of vascular back flow





The Bidirectional model can not only measure the systolic blood flow velocity

It can better measure the diastolic blood back flow velocity

It is used to detect the elasticity of vascular vessels. analyze and judge the state of vascular vessel wall. and feed back the state of cardiac function

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Figure for judging vascular obstruction





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(optional) PC software function

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Connected via USB

Realize the data transmission of Doppler Detector to computer for analysis and printing

PC software options (accessories list)



Dongle

USB flash disk (PC software)

Data transmission box

USB cable

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Real picture display







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