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ISO 13485 CE ISO 9001

Ultrasonic Doppler Vascular Detecto

- Systolic and diastolic blood flow waveform

The blood flow meter can detect the reflux wave,
feed back the elasticity of blood vessel wall,
the state of vascular disease, and the state of cardiac function.



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Main performance of the product

Ultrasonic Doppler Vascular Detector is mainly used for real-time detection of limb blood flow and measurement of arteriovenous stenosis and obstruction.

Ankle brachial index / toe brachial index, arteriosclerosis test to evaluate limb segmental pressure

The preoperative design and cutting of flap transplantation, the evaluation and treatment of postoperative arterial crisis, the detection and nursing of vascular reconstruction were measured

Bestman Ultrasonic Doppler bidirectional noninvasive vascular detector

Clear sound quality and intelligent noise reduction

Bidirectional detection and automatic adjustment

Accurate non-destructive velocity measurement data

Widely used and powerful function

Proprietary software

EU CE certification domestic NMPA certification

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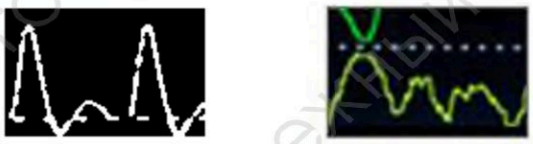
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The measurement range can be set

Automatic recognition of blood flow direction

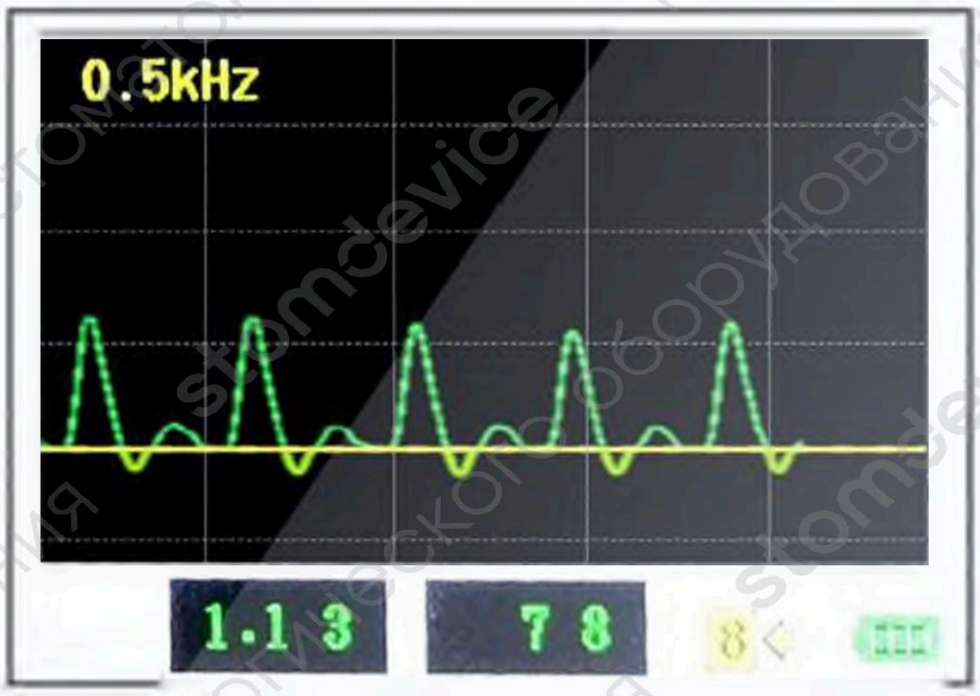


Green forward

yellow reverse

The 8.0mhz high-sensitivity probe is used to detect the blood flow velocity and blood flow waveform in human blood vessels.

It is suitable for peripheral vascular health examination of human limb segments and recovery effect examination after anastomosis.



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Freeze key

Blood flow velocity,
blood flow waveform .variable unit



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Small size and easy to use

Handheld device, small size, built-in high-capacity rechargeable battery, with printing function, easy to use and flexible to carry.

It is convenient for doctors or professionals to test patients anytime and anywhere.



Find the artery, obliquely 45 °, facing the artery

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High precision color display

BV-5201 + adopts 2.4-inch LCD (TFT) display screen to display blood flow waveform, average blood flow velocity and time scale.



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Artery and vein 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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Proprietary technology

Complete software certificates and safe use

Class II medical device registration certificate has been obtained Registration Certificate

No.: Guangdong Machinery registration standard 20172231863







Registration No : 2017SR727720



Patent No.: ZL 2019 2 0477142 5

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Wide usage and powerful function



Endocrinology



Vascular surgery



Orthopedics



Andriatrics



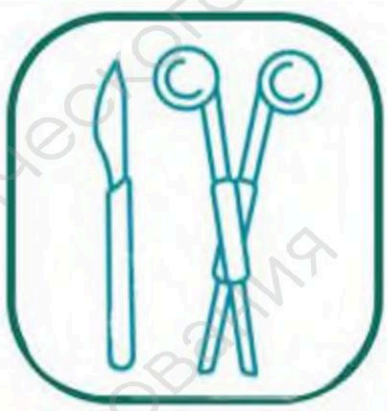
Trauma surgery



Andrology



Burns



Surgery



Urology

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Ultrasonic Vascular Doppler Detector (Bidirectional)

Technical performance (suitable for PC software)

- The blood flow of human artery / vein was detected by bidirectional blood flow probe;
- 360 degree convex probe design, large contact area with blood vessels, can quickly find blood vessels and collect waveforms
- The direction, mode, language, waveform and data of the probe can be set;
- Graphics for unique display / separation modes and combined flow rates
- The screen displays the blood flow waveform and maximum blood flow velocity at present
- The host has built-in memory, which can store 150 groups of wave forms and data
- The host has built-in high capacity rechargeable lithium battery, which can be reused, and the single use time is 6-8 hours

Clinical application

- Microsurgery hand surgery:
  measure the blood flow and vascular anastomosis of fingers and toes before and after operation
- Orthopaedic trauma surgery:
  check the anastomosis of limb blood vessels and limb blood status after 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 detection of phlebitis.
- Department of burn and plastic surgery:
  determine the position and recanalization of blood vessels before and after operation.
- Functional department:
  lower extremity blood pressure measurement; Speed trend analysis, drug treatment effect judgment
- Cardiothoracic surgery:
  peripheral vascular location
- Urology and andrology:
  measure the blood flow velocity of penile artery and diagnose male reproductive system diseases, such as impotence and varicocele.

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Application advantages

1、Noninvasive examination, painless, repeatable, and high diagnostic accuracy

2、It is small and easy to carry. Doctors and nurses can operate it quickly

3、Continuous Doppler has high signal-to-noise ratio and is suitable for weak signal extraction. It can detect small blood vessels and microcirculation vessels within 10mm, which is unmatched by pulse Doppler and color Doppler ultrasound.

4、The only way to detect the maximum blood flow velocity and maximum depth can be determined by Doppler flow diagram

1 Whether there is peripheral vascular surgical disease, if yes, arterial disease or venous disease.

2 Judge the stenosis and occlusion of limb static artery, and understand the collateral circulation of blocked artery; Identification and process detection of phlebitis

3 Determine whether to do angiography and the route of its catheter.

4 It can be determined whether it is suitable for surgery or conservative treatment.

5 Determine the effect of surgery or drug treatment.

6 It can be used as a method for long-term follow-up of patients and monitoring the changes of their condition



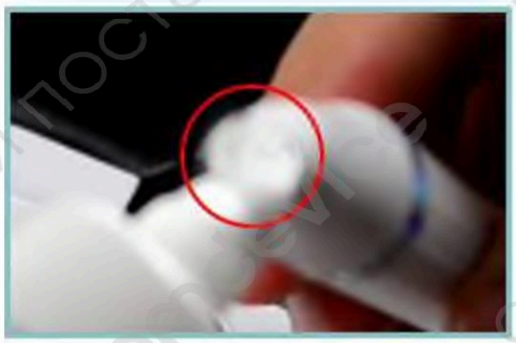
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Configuration list

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	Couplant	x1
8	earphone (optional)	x1

Operation steps

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Step 1:

The first step 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

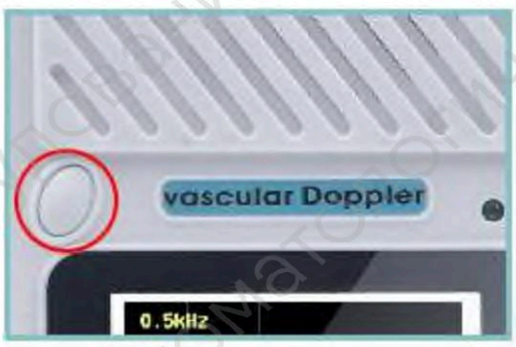
Read waveform and blood flow velocity



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

After the stable blood flow waveform is obtained, the stable blood flow velocity is at the beginning of the fifth wave (this is the reference value)

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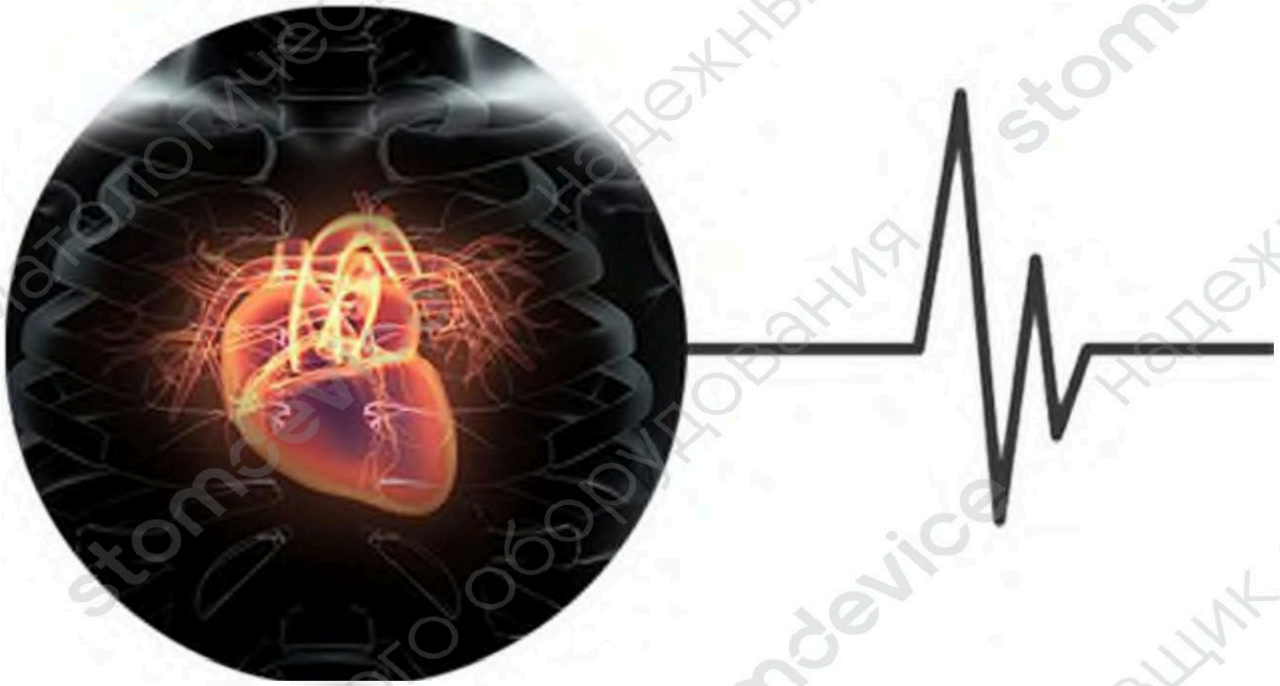


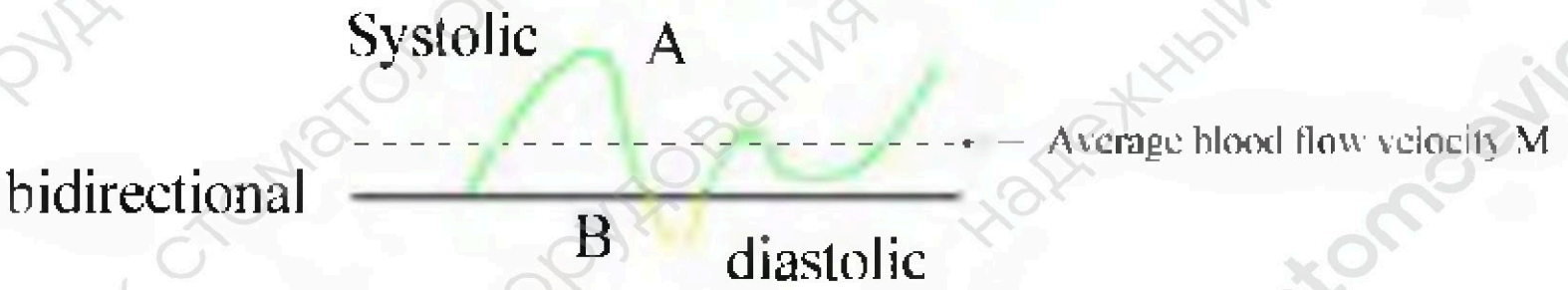
Vein detection method

Explore the small saphenous vein under the back of the popliteal knee, and the saphenous vein in the standing position. If you hear continuous venous sound (upward sound), it is suspected that there is deep venous reflux disorder (thrombosis such as DVT)

BV-520T+ (Bidirectional function)

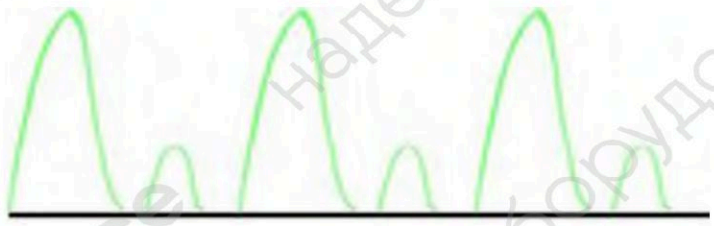
The elasticity of vascular vessel wall can be judged according to the waveform of vascular back flow





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Not only the systolic blood flow velocity can be measured
It is used to detect the elasticity of blood vessels, analyze and judge the state of blood vessel wall, and feed back the state of cardiac function



It can measure systolic blood flow velocity (widely used)
Analyze the systolic blood flow status, judge whether it is blocked.
and judge the location of arteries and veins during operation

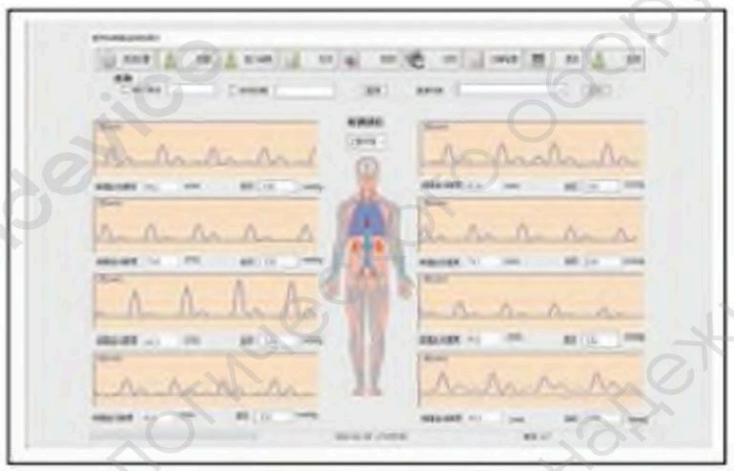


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Clinical application

Examination of peripheral arteriovenous lesions

It is equipped with 8MHz highly sensitive bidirectional ultrasonic Doppler probe as standard and powerful Chinese analysis software. which can measure arterial segmental pressure. auscultate venous reflux and valve insufficiency. and provide a powerful means for noninvasive detection of peripheral blood vessels



Diabetes foot screening

Early diagnosis with ankle brachial index ABI and Doppler ultrasound can prevent the occurrence of diabetic foot early. Ankle brachial index is an accurate. simple and non-invasive method. It can be applied to the rapid measurement of ABI in patients at the grass-roots level. and to assess the lower extremity arterial ulcers.



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Examination of finger and toe arterioles

The advanced design improves the sensitivity and anti-interference of the probe.
and its ability to distinguish weak signals and small blood vessels is stronger.

When ABI and segmental arterial pressure are normal.
toe pressure and TBI can know more about the existence and degree of peripheral arterial disease.



Surgical vascular assessment

It can be used for preoperative vascular screening and average postoperative effect of flap transplantation and vascular reconstruction. The thinner probe is easy to detect the small subcutaneous vessels and the vascular location of transplanted flap.
detect the changes of blood flow in real time, and ensure the results of vascular reconstruction and repair surgery. It is suitable for orthopedics, hand and foot surgery, general surgery, burn and plastic surgery, etc.

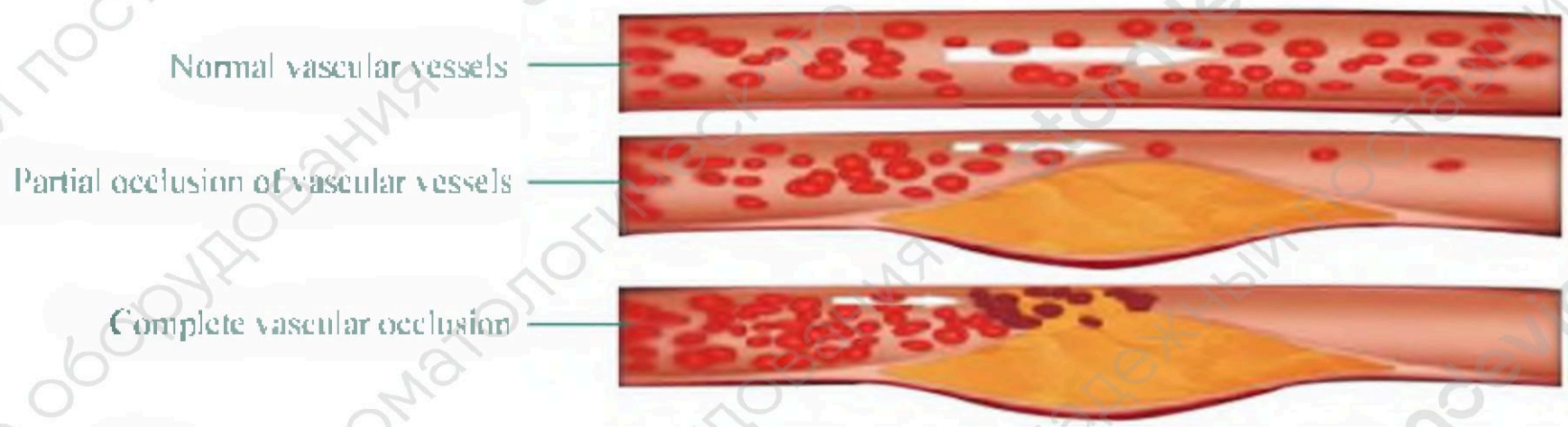


Doppler blood flow detector and flap transplantation

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Figure for judging vascular obstruction





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