

Support for multiple probes

**SonoStar**



**Handheld Wireless Doppler Ultrasound  
With Interchangeable Probes**



# Product introduction of wireless handheld Doppler ultrasound probe

## How it works >>>>>

The wireless probe is a mini ultrasound scanner without a screen. We minimize the components of a traditional ultrasound into a small circuit board built into the probe, and showing image in smart phone/tablet through Wifi transferring. Image transferring through internal wifi from probe, no need external Wifi signal.

## Clinical positioning >>>>>

Anesthesia, pain, care, ICU, emergency, ambulance, urology, hepatobiliary, endocardial, breast, physical examination, rehabilitation, bone injury, gynecology, obstetrics, reproductive, neonatal and other departments, grassroots medical/family doctors, family planning stations, nursing homes, examination centers, nursing homes, postpartum care centers, plastic surgery and beauty institutions, sports team medical teams, military battlefield rescue medical teams, disaster rescue medical teams, etc.



# Advantages and reliability of the interchangeable probe version product



If more than two sound heads are currently or potentially needed in the future, the version with detachable sound heads is more cost-effective, as the handle (main unit) can be shared by multiple sound heads, which is less expensive than purchasing single-head or dual-head versions where each handle (main unit) is dedicated to only one or two sound heads respectively.

Even if multiple sound heads are not needed currently, the version with detachable sound heads can be considered, as it is more convenient to add or replace sound heads at any time in the future.

Moreover, the interface used is highly reliable and will not suffer from poor contact after frequent plugging and unplugging. It also supports hot-swapping without the need to shut down the device. Additionally, it features a magnetic attraction device that ensures a tight and secure connection between the sound head and the handle, preventing looseness and the entry of water or dust. Therefore, it is quite convenient and reliable.



The transducer and the handle are precisely and magnetically connected



### Compact and easy to carry

Slightly larger than a mobile phone, lightweight, can be placed in a pocket



### Overall waterproof and easy to disinfect

Through military standard environmental testing, the front end of the probe can be directly rinsed with water or wiped with a damp cloth/tissue.



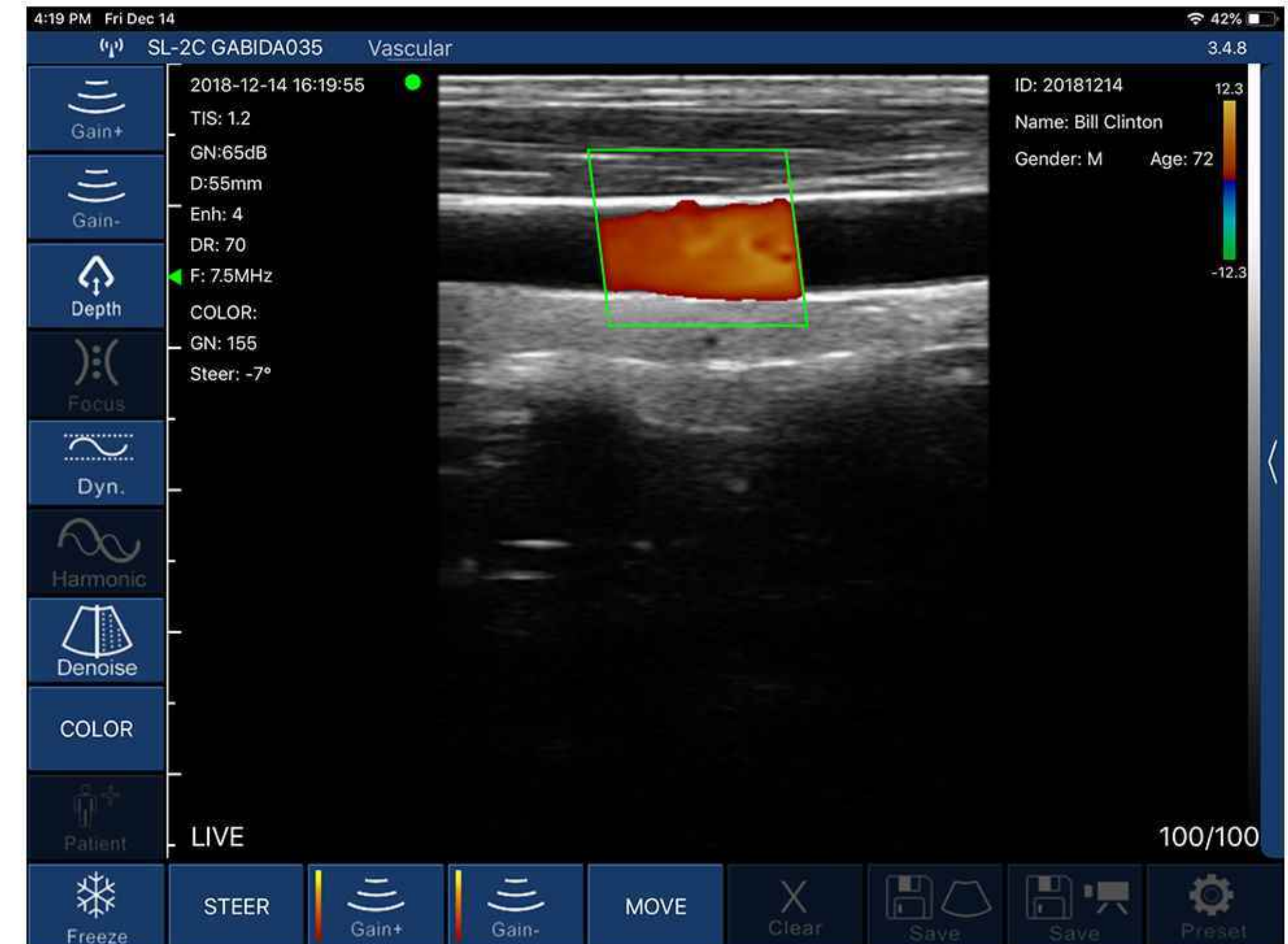
### Wireless, free to use

More comfortable to use without the binding of probe wires



### Convenient remote diagnosis

Leveraging the powerful communication capabilities of mobile tablets



A simple, easy and fast operation software interface



Windows



Android



Apple iOS

Most phones, tablets, and computers compatible with Android, Apple iOS, and Windows

# Specifications & Configuration



- Scan mode: Electronic Array, Electronic Convex & Linear array scanning
- Frequency: Convex 3.2/5.0MHz or 3.2/4.0MHz, Micro convex 8/11MHz, Linear probe 7.5/10MHz or 10/13.2MHz or 16/20MHz, Transvaginal 6.6/8.0MHz, Phasedarray 2.2/3.6MHz
- Scanning Depth: Convex 90-305mm, Micro convex 30-120mm, Linear 20-100mm or 20-60mm or 10-40mm, Transvaginal 20-100mm, Phasedarray 90-200mm adjustable
- Field of view: Convex R60, Micro convex R13, Linear L40 or L25 or L18, Transvaginal R13, Phasedarray R80
- Image Adjustment: gain, focus, reverse pulse harmonics, noise reduction
- Puncture Auxiliary Function: In-Plane puncture guide, Out-Plane puncture guide, automatic vascular measurement function
- Measure: Thyroid, small organs, pediatrics, blood vessels, carotid artery, breast, musculoskeletal, blood flow, nerves, abdomen, gynecology, obstetrics, heart, urinary system, kidneys, lungs
- Power: by built-in lithium battery, 2800mAh, wireless charging can extend the working time indefinitely
- Playback : manual and automatic, playback frames to be 100/200/500/1000
- Image gray scale: 256 level
- Dynamic Range: 40/50/60/70/80/90/100/110
- WiFi Type : 802.11n/2.4G/5G dual-band 450Mbps
- Size: 156mm×55mm×20mm
- Elements: 96 elements
- Screen: iOS/Android/Windows screen
- Display mode: B, B/M, Color, PDI, PW
- Image frame rate: 18 frames/second
- Image/Video Storage: jpg, png mp4 and DCM
- Battery working time: 2 hours
- Net Weight: 200 gram
- Channels: 32 channels
- Supporting system: iOS, Android, Windows

## Linear array COLOR mode

Deflection angle -12/-7/0/7/12 degrees  
PRF  $\geq$  4 groups  
Wall filter 0 - 15  
Color gain 0 - 10

## Convex Array COLOR Mode

Deflection Angle: Not Available  
PRF:  $\geq$  4 groups  
Wall Filter: 0 - 15  
Color Gain: 0 - 10

## Convex array PW mode

Sampling volume: 1, 2, 5 mm  
Baseline: 0 - 800 cm/s  
PRF:  $\geq$  4 groups  
Correction angle: -85 to 85 degrees

## Cardiac COLOR mode

Deflection angle: Not available  
PRF  $\geq$  4 groups  
Wall filter: 0 - 15  
Color gain: 0 - 100

## Cardiac PW mode

Sampling volume: 1, 2, 5 mm  
Baseline: 0 - 600 cm/s  
PRF  $\geq$  4 groups, Note: For USB phased array probe, PRF is 2 - 20K  $\geq$  8 groups  
Correction angle: -85 - 85 degrees

## Linear array PW mode

Sampling volume: 1, 2, 5 mm  
Baseline: 0 - 500 cm/s  
PRF  $\geq$  4 groups, Color gain: 0 - 100  
Correction angle: -85 - 85 degrees



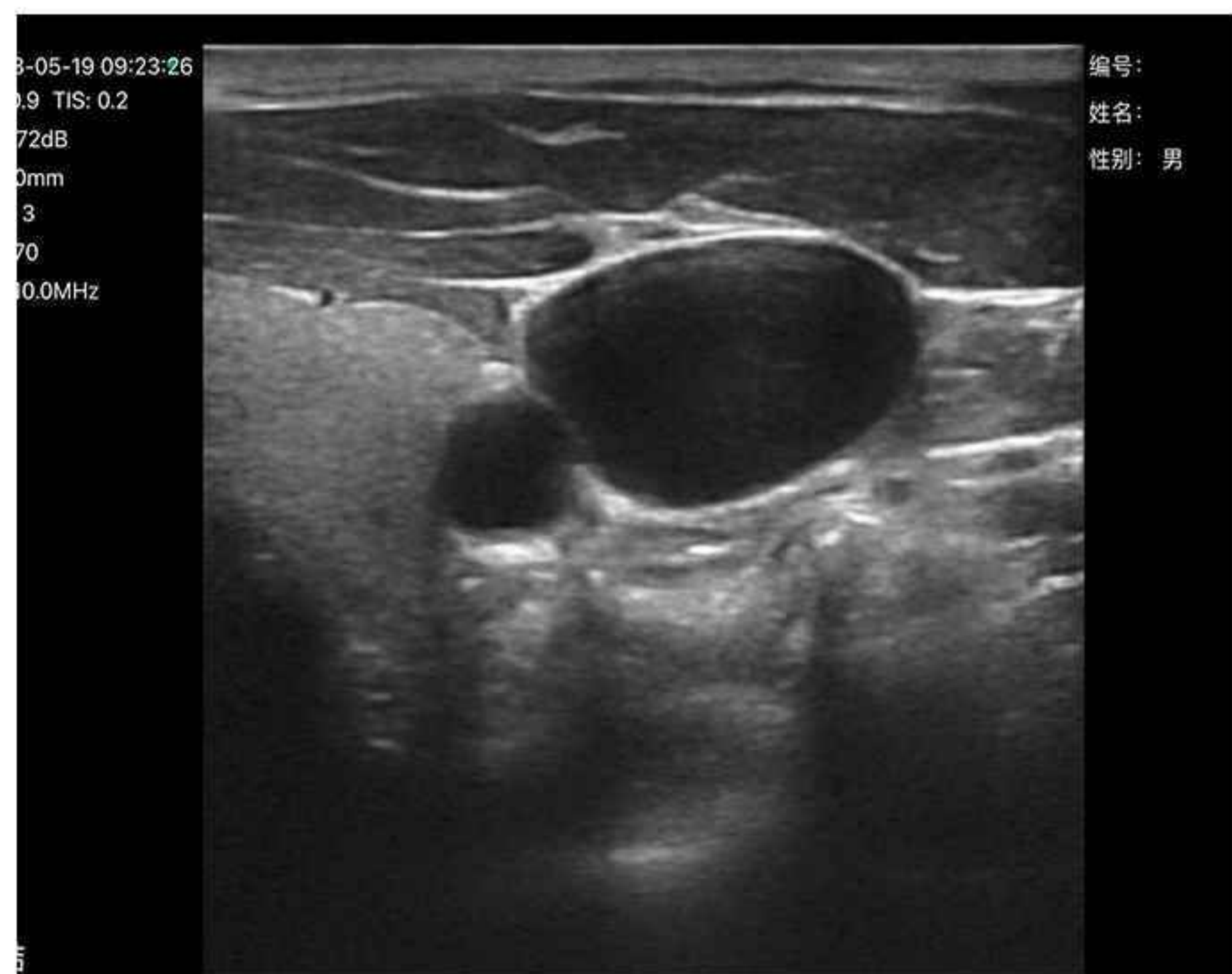
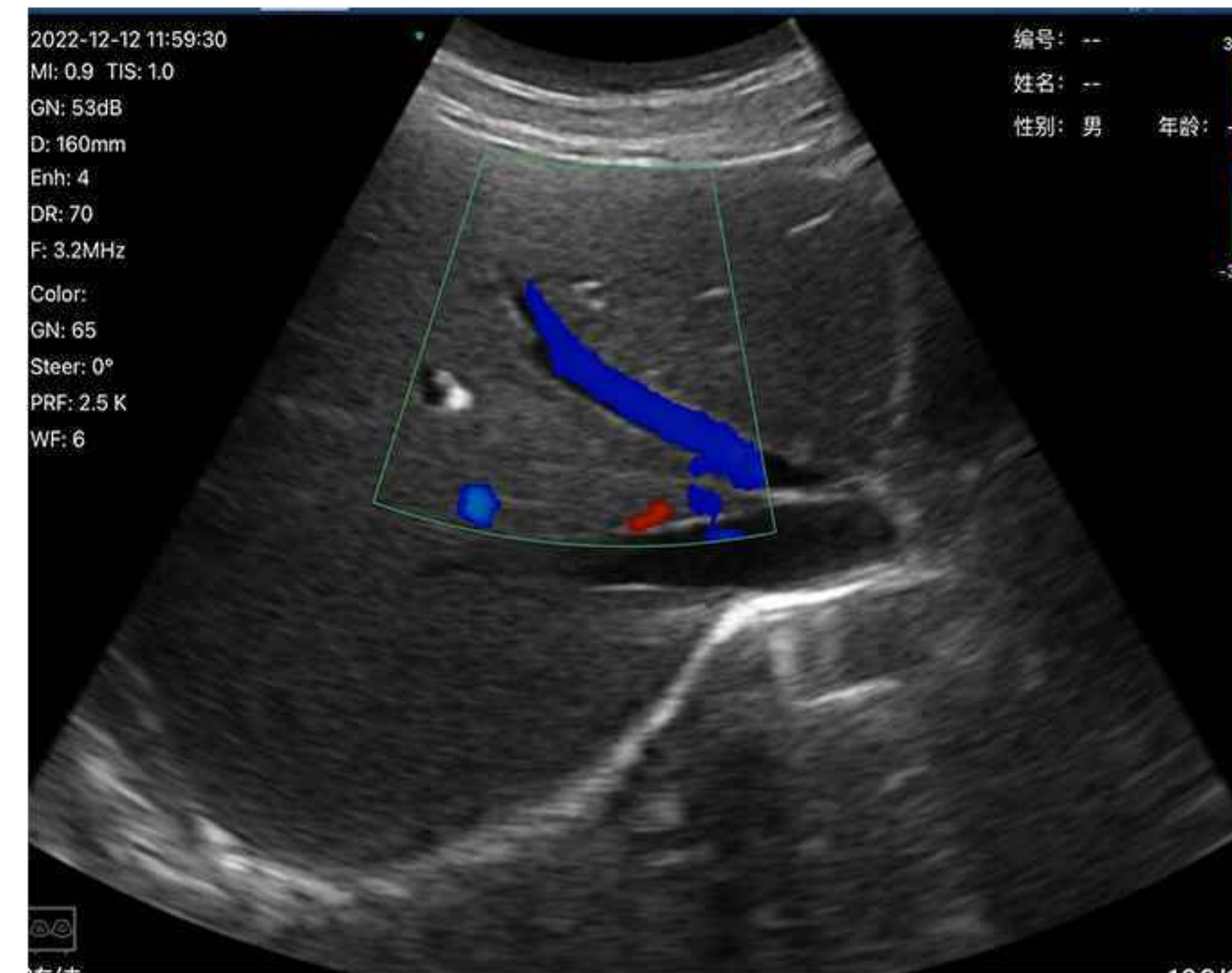
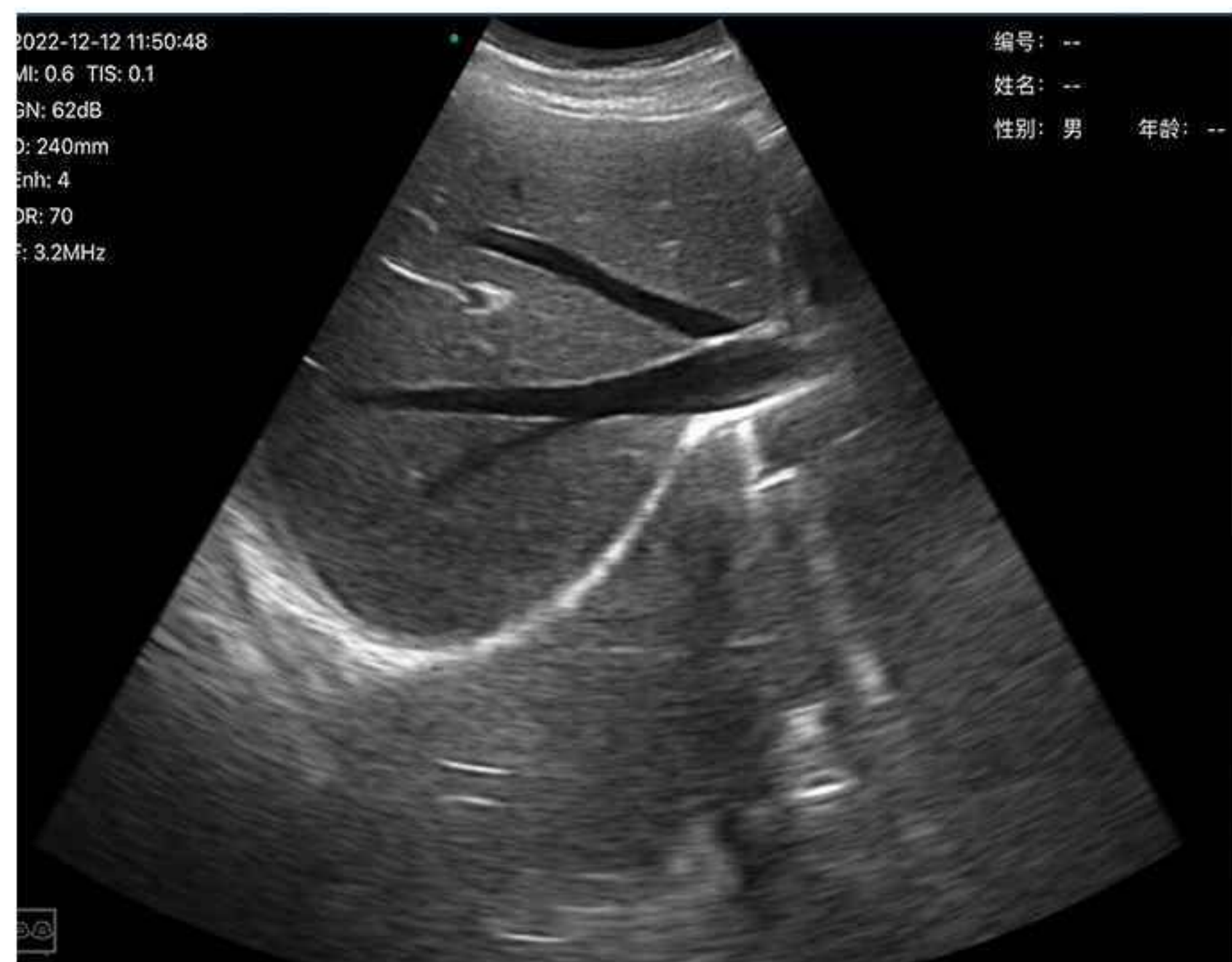
## Example of usages >>>>>

**Puncture/intervention guide:** thyroid ablation, neck vein puncture, subclavian vein puncture, and neck and arm nerves, canal of arantius, spine puncture, radial vein injection, percutaneous renal surgery guide, hemodialysis catheter/thrombosis monitoring, abortion, bile duct puncture, hydropsarticuli extraction, pain therapy and cosmetic surgery, urine catheterization.

**Emergency inspection:** internal bleeding, Pleural effusion, pneumothorax, Atelectasis of lung, Temporal / posterior auricular fistula, pericardial effusion.

**Daily inspection:** thyroid, breast, liver cirrhosis, fatty liver, prostate/pelvics, stroke screening, retinal artery, uterus, follicular monitoring, fetus, musculoskeletal, podiatry, fractures, varicose veins, spleen.

# High Definition Images





Scan the QR code to  
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introductions/videos



**CFDA** | **FDA** | **EU-MDR** ✓ | **HC** | **pmda** | **ISO** | **MHRA** | **TGA**  
ISO13485

**MFDS** | **TITCK** | **Kemenkes** | **TFDA** | **ANVISA** | **RoHS** | **MDSAP** | **RZN**  
compliant

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