

The Innovator of New Ultrasound

wisonic



# Navi Series

AI-Powered Point-of-Care Ultrasound

wisonic



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This brochure is only for academic exchanges and references. Nothing in this material should be used to diagnose or treat any disease or condition. Please refer to Wisonic user manual for any operation guidelines.

wiCloud mentioned in the material may be subject to government regulation and may not be available in all countries. Please contact wisonic local sales representative for more information.

Navi is an AI-Powered color ultrasound dedicated for anesthesia and pain management. Its unique functions answer the front-line user needs, the customized workflow and professional imaging redefine the standard of ultrasound for anesthesia and pain management. Navi is an ultrasound that truly belongs to the anesthesiologist.



# Professional Application

The smart design of Navi specifically aims for anesthesia and pain management, providing a better user experience, improving the clinical evaluation efficiency and prompting operation safety.



Dual Transducer Ports



19-inch Large Touch Screen



Dedicated Probe Holder for Disinfection

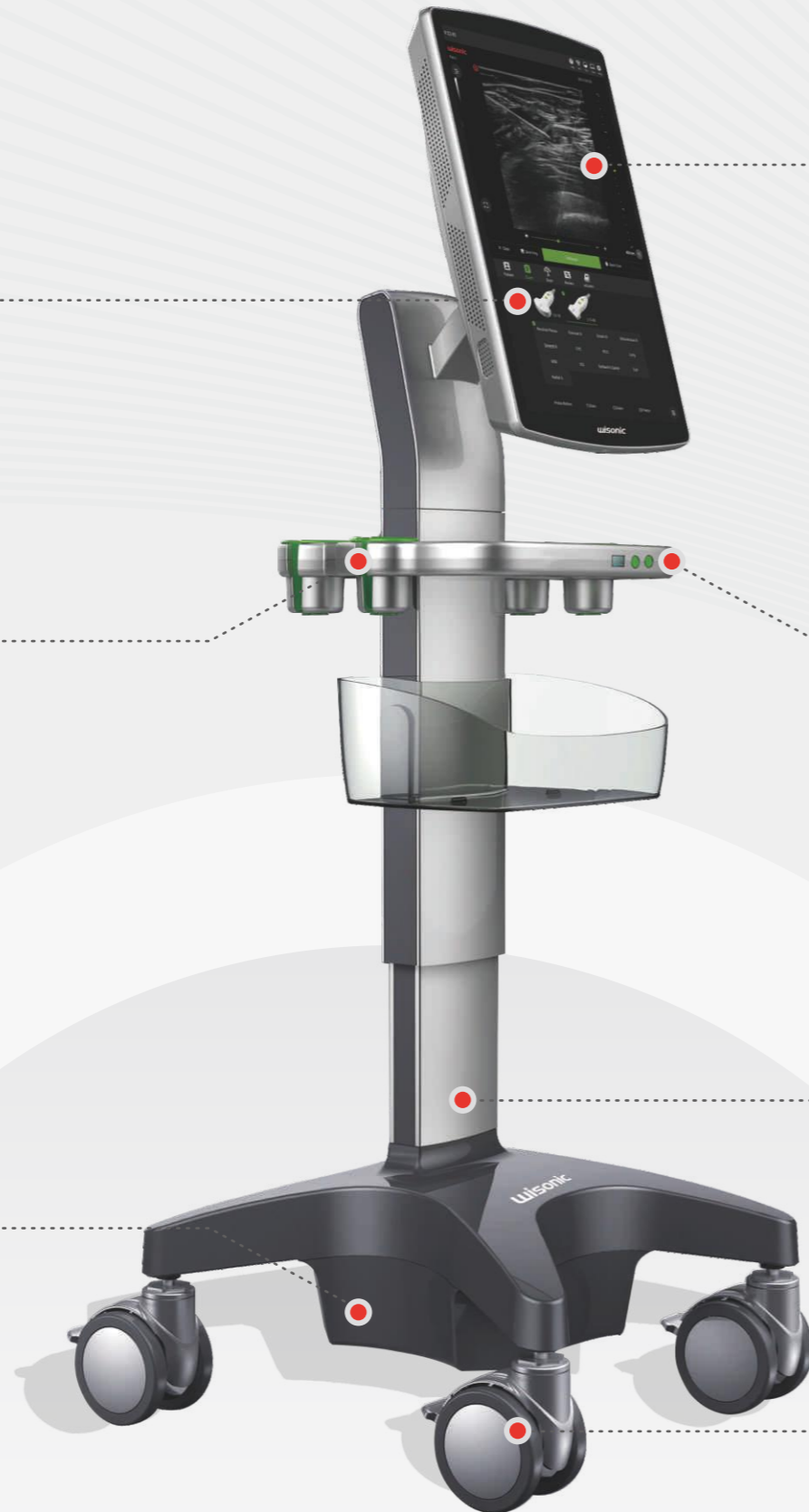


Battery Duration Time Display



7 Hours Battery for Whole Day Operation

Electrical Height Adjustment



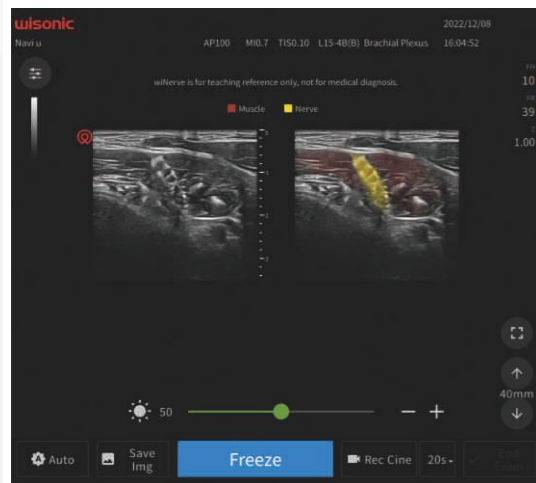
Large Wheel



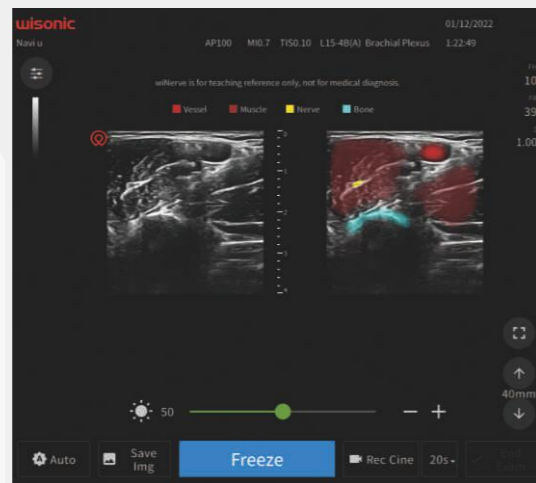
# Artificial Intelligence

## wiNerve - AI Nerve Recognition

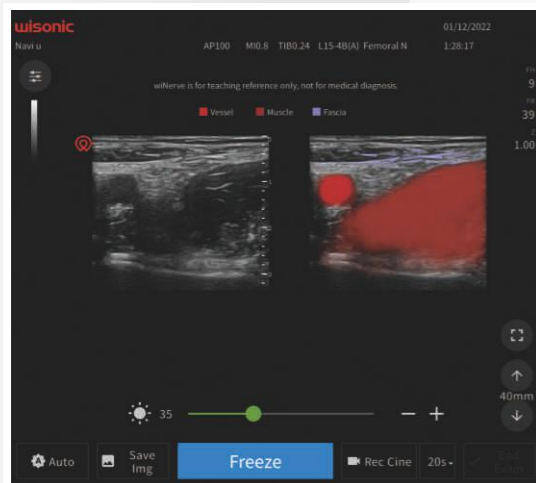
As a pioneering feature in the ultrasound industry, based on machine learning, wiNerve can not only recognize the standard views, but also automatically identify and color-code several structures including nerves, muscles, vessels, etc., so as to provide a reference for clinicians.



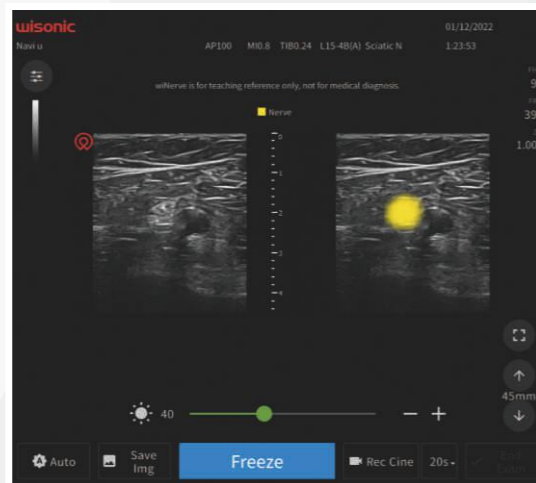
Interscalene BP



Axillary BP



Inguinal Femoral N



Popliteal Sciatic N

# Education Solution

## wiLearn Pro Education Center

Developed for improving learning curve, wiLearn Pro covers clinical and ultrasound knowledge of Regional Anesthesia and Pain Management, illustrating anatomic graphics, probe positioning, ultrasound images and block guidance.

**Catalog**

- ANE
- Preface
- Upper extremity
  - Interscalene brachial plexus (IBP)
  - Supraclavicular brachial plexus
  - Infraclavicular brachial plexus
  - Axillary brachial plexus (AXBP)
- Torso
- Lower extremity
- PM

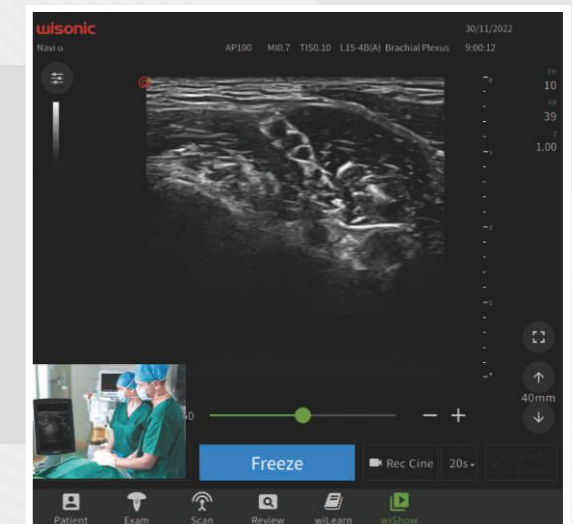
### Interscalene brachial plexus (IBP)

**Local anatomy**

The brachial plexus passes through the groove between the anterior and middle scalene muscles above subclavian artery. Here it consists of upper, middle, and inferior trunks. After passing through the interscalene groove, these three trunks give off to the front and rear respectively, descending with the subclavian artery, until the middle and outer edge of the first rib after the clavicle. This is the landmark of the supraclavicular brachial plexus nerve blocks, which is covered by skin, platysma and deep fascia. About 2cm below, and inside the coracoid, the brachial plexus nerves accompany the axillary artery to form a lateral bundle, a medial bundle and a posterior bundle, which surround the axillary artery and pass through deep beneath the pectoralis minor muscle; in the axillary, the brachial plexus cords give off the terminal branches at the axillary, including radial nerve, ulnar nerve, median nerve, medial brachial cutaneous nerve and medial antebrachial cutaneous nerve, surrounding the axillary artery. Axillary nerve and musculocutaneous nerve are given off at a higher position, far from the axillary artery.

## wiShow Teaching Record

wiShow can simultaneously record ultrasound image, hands' movement and voice. The recorded video can be either exported or displayed on the screen via HDMI.



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# Dedicated Application

Navi offers efficient and intelligent nerve block and vascular cannulation guidance solutions. It serves as the "third eye" of anesthesiologists to help them manage the patient's cardiovascular and respiratory system, significantly reduce clinical risk and improve patient experience.

## Nerve Block

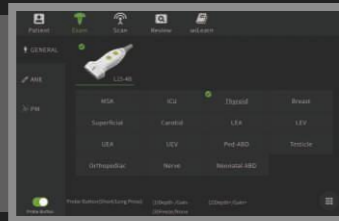
### Ideal in Detail Tissue Imaging

Navi was built on a Holo™ Platform, providing whole field best-in-class image quality and outstanding resolution.



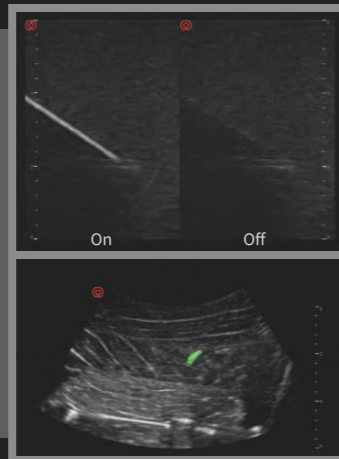
### Anesthesia-specific Image Presets

Reduces the steps of adjusting parameters and perfectly ensures the image quality.



### wiNeedle Intelligent Needle Enhancement

Under linear probe, wiNeedle automatically steer the ultrasound beam, keeping beam vertical to the needle all the time. Under convex probe, wiNeedle traces the movement of needle tip automatically and spot in green.



### wiGuide Magnetic Needle Tracking

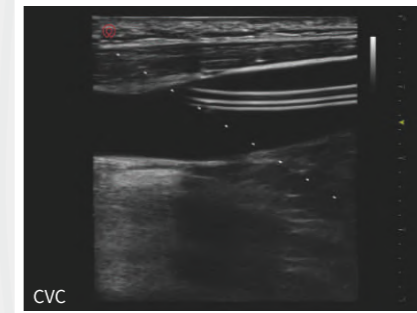
Magnetic needle tracking technology provides accurate needle information, making precise punctures within easy reach.



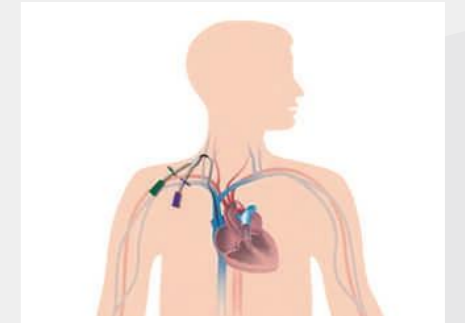
Out-of-Plane Puncture

## Vascular Cannulation

Real-time ultrasound imaging visualizes the operation path. A clear display of vascular structures improves the accuracy of cannulation.



CVC



## Circulatory System Management

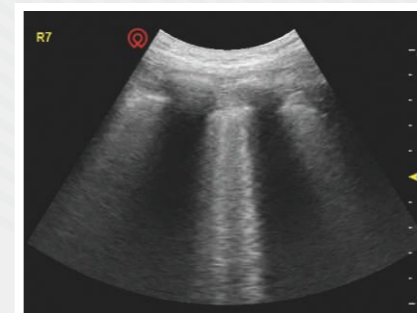
Make the monitoring and assessment of volume status efficient; ensure the timely detection of postoperative complications in the circulatory system.



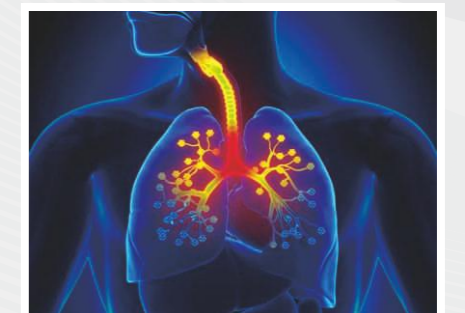
IVC

## Respiratory System Management

Dynamic monitoring of the lung condition, including pulmonary ventilation, provides fluid management guidance.

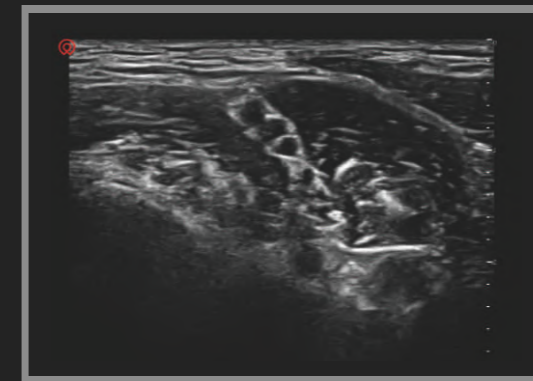


R7

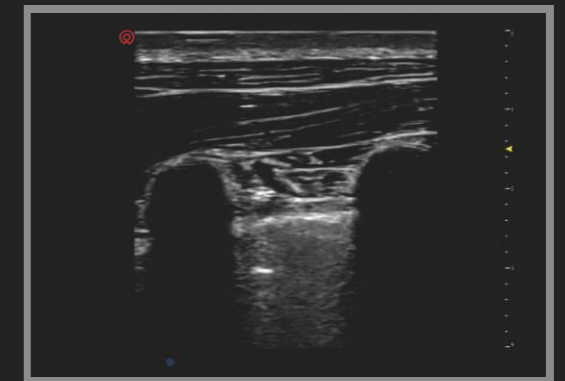




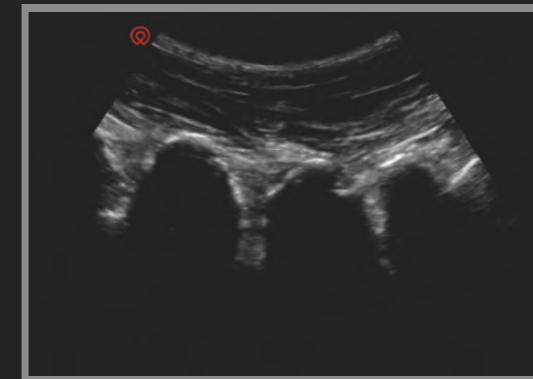
## Outstanding Image Quality



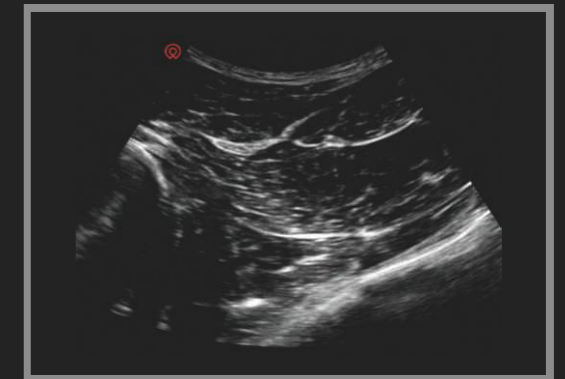
Brachial Plexus



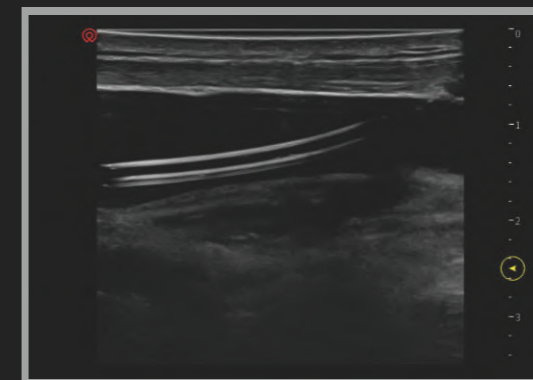
Intercostal Nerve



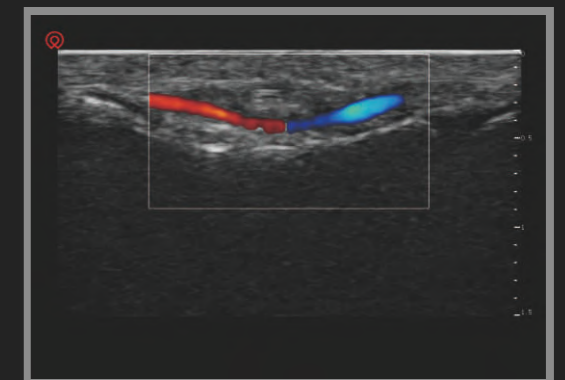
Vertebral



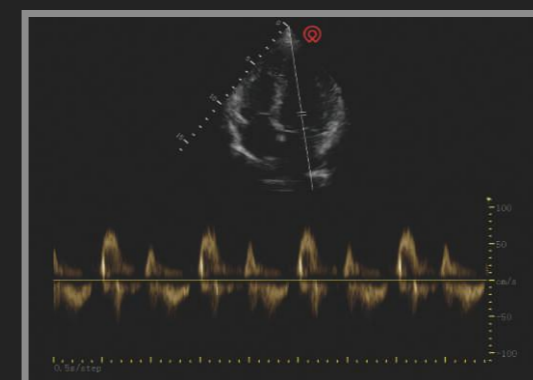
Sciatic Nerve



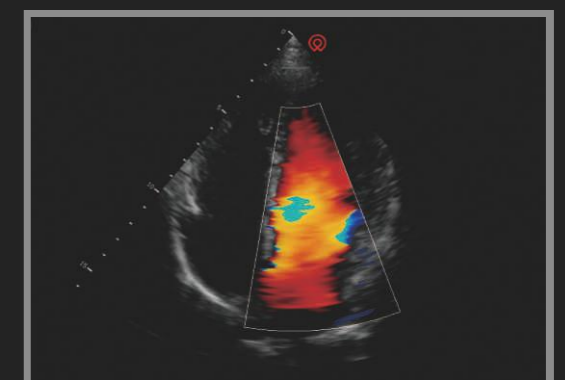
CVC



Digital Artery



Apical 4-Chamber Spectrum



Apical 4-Chamber

## Comprehensive Range of Applications

The wide range of transducers availability offers possibilities in diverse applications, from large patients to the smallest of paediatrics—the Navi can do it all. The innovative mid-line design along with the project probe direction indicator provides outstanding accuracy and best user experience.



### Probe Button

Smart-design button on both sides of probe, allows user to readily interact with the system by freeing both occupied hands.



### Hockey Stick Probe

A dedicated probe for distal extremity use, with very high frequency and light weight design, it is a perfect tool for excellent detail imaging and limited space operation.