



Navi





**BASIC
KNOWLEDGE**



**PRECISE
NAVIGATION**



**PROFESSIONAL
DESIGN**



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BASIC KNOWLEDGE

PART 1

EV CAR - MODEL S

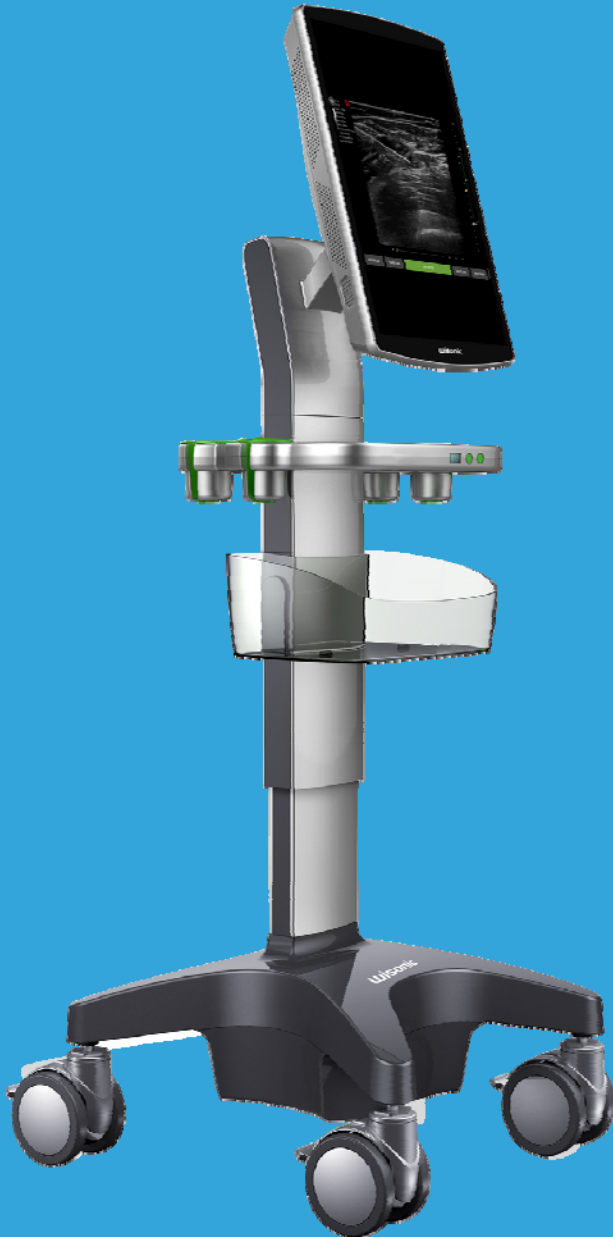


**BREAK RULES
SET UP NEW STANDARD**

Anesthesia - Navi **wisonic**



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A Vision for Precise Navigation



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PRECISE NAVIGATION

PART 2

Factors for precise navigation

- ▶ Very clear target image
- ▶ Know where needle is in real-time

	Image	Needle Tip
	<ul style="list-style-type: none">• Single nerve image preset	<ul style="list-style-type: none">• In-plane needle visualization needs manual angle adjustment
Pain Point	<ul style="list-style-type: none">• Footprint is too large to do distal nerves and frequency is too low	<ul style="list-style-type: none">• No solution for out-plane needle tip display



Advance imaging platform - Holo

- ▶ Ultra-high frame rate
- ▶ Raw date information



Dedicated Nerve and Vessel Imaging Setting

- ▶ Pain point: Only one nerve preset for all different parts scan, every exam should adjust depth and gain each time.
- ▶ Navi: Separate image settings for common nerves and vessels.
- ▶ Advantage: Simple: Easy to use and know how, make sure the image quality is relatively best.
Unique feature among all dedicated anesthesia ultrasound machines.

✔	臂丛神经	股神经	坐骨神经
	常规神经	CVC	PICC
	肌骨	ICU	

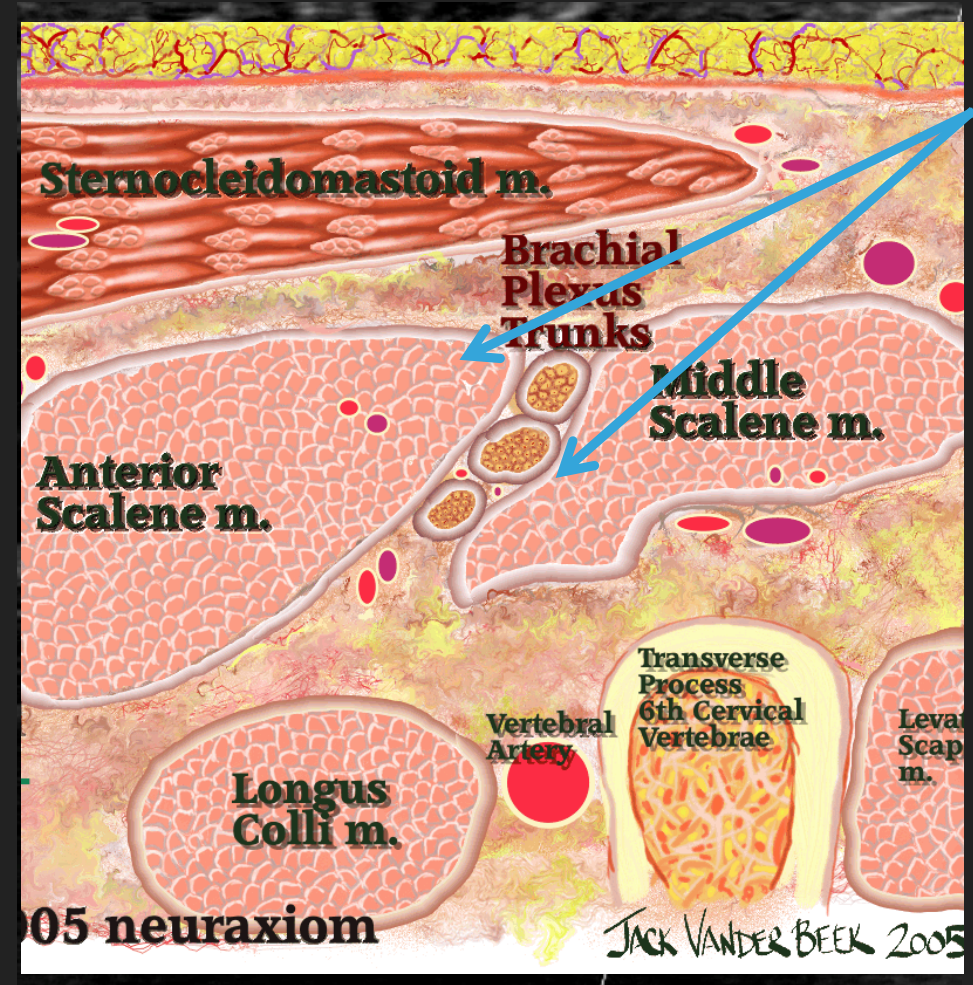
LH15-6 Hockey Stick Probe

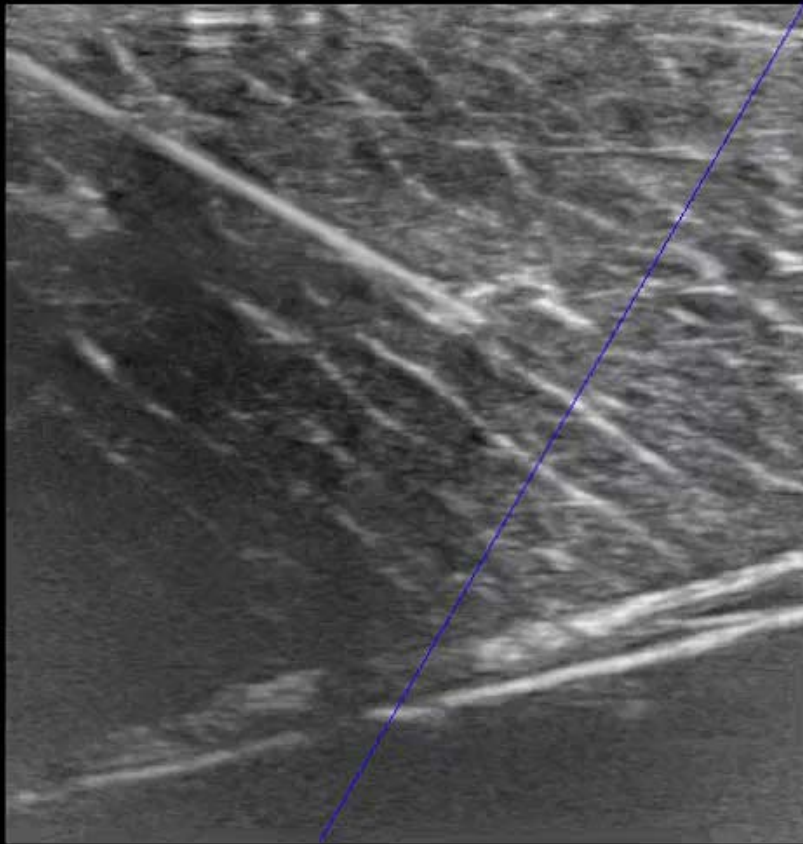
- ▶ Pain Point: Footprint for distal small nerve and vessels is too large, and frequency is not higher enough for very superficial target.
- ▶ Navi: Smart and light weight, with wide operating space around probe, center frequency up to 10 MHz, better image quality.
- ▶ Advantage: better image with best operating experience.



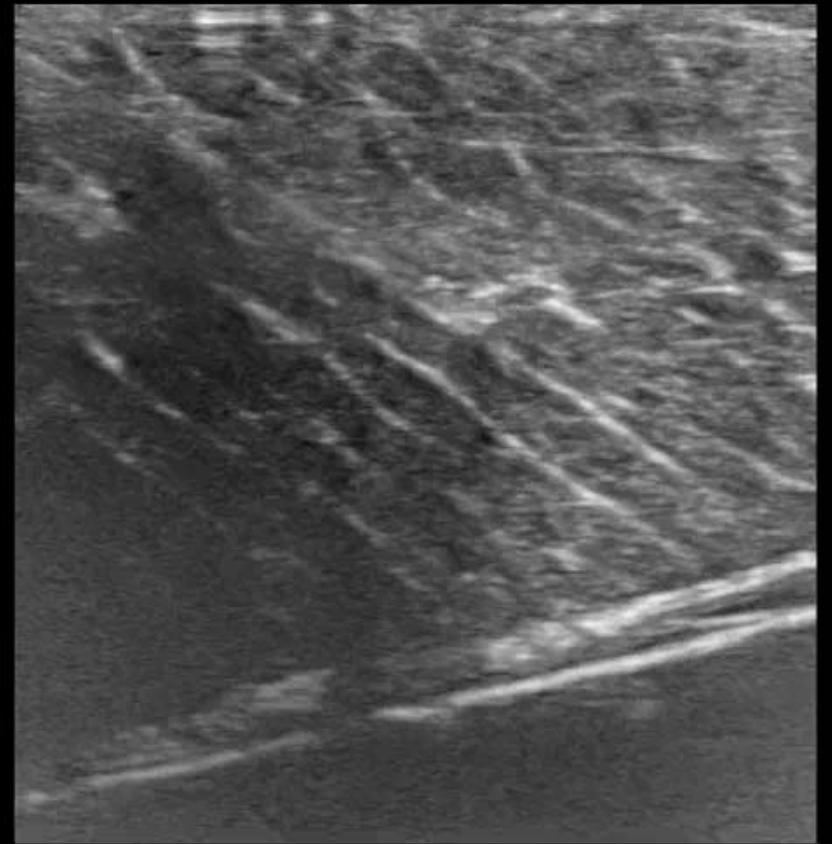
wiNeedle Intelligent Needle Visualization

- ▶ Pain Point: latex gloves on hand, doctor can not adjust steer angle because of disinfection issue, but needle trajectory angle is inevitably changing in real-time.
- ▶ Navi: Find needle angle first then make intelligent angle steering and needle enhanced visualization.
- ▶ Advantage: **industry unique feature**, offering easy to use and better needle tip display.





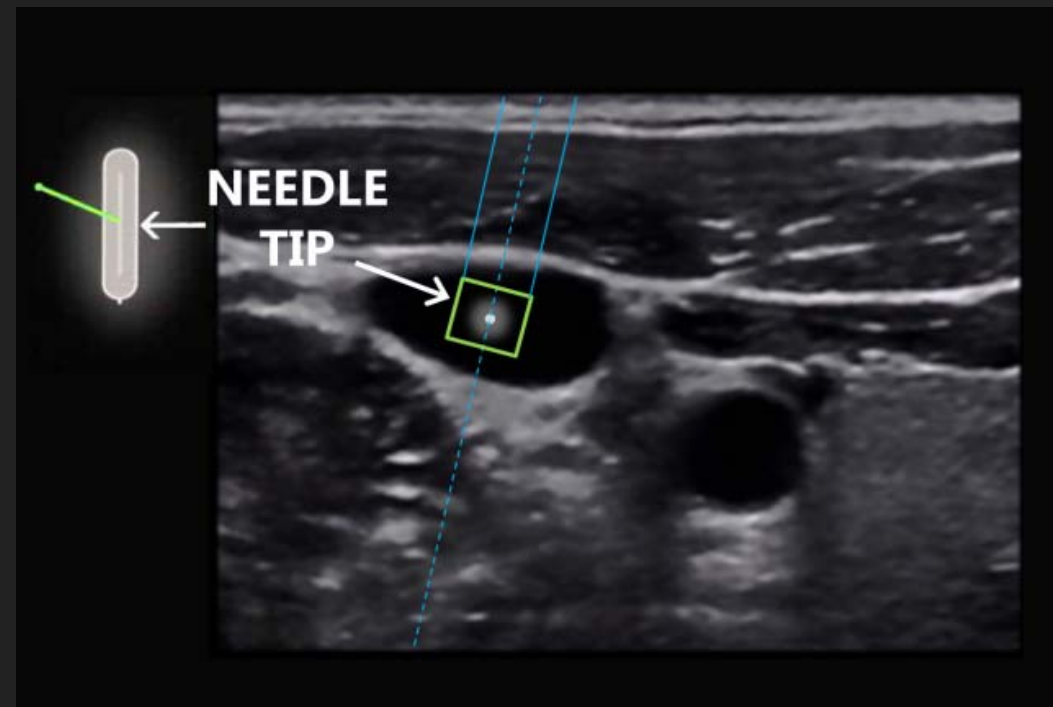
After wiNeedle on

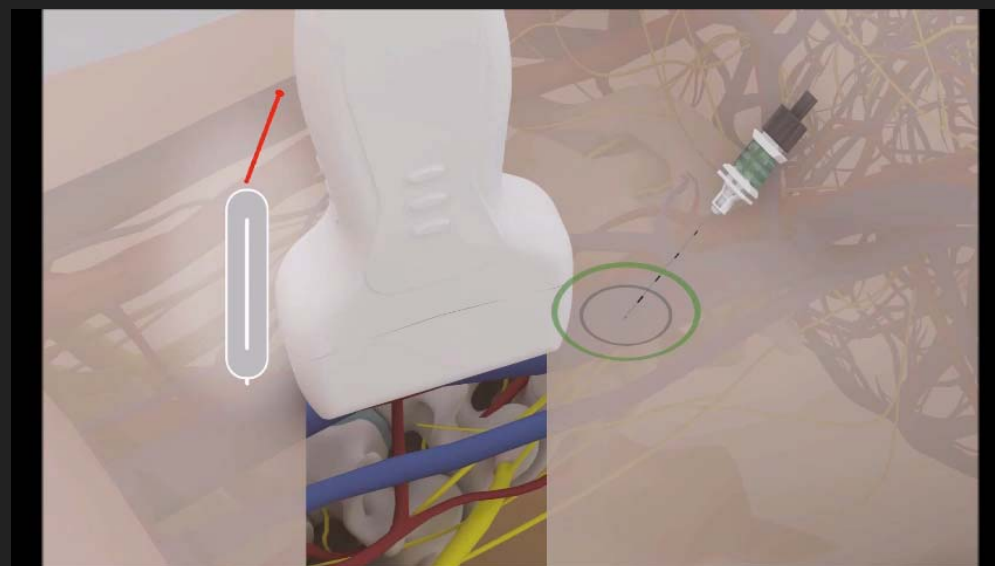
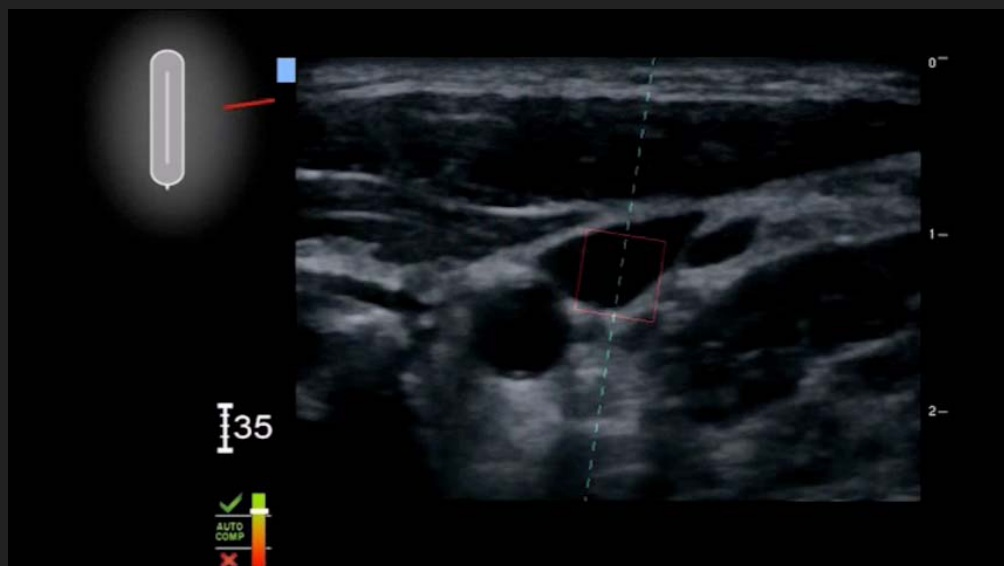


Without any needle enhancement

wiGuide Intelligent Needle Tracking

- ▶ Pain Point: can not find needle when use out of plane technique, however out of plane is more common than in plane
- ▶ Navi: provide intelligent needle tracking technology either out of plane or in plane procedure.
- ▶ Advantage: Simple and accurate, doesn't affect any current needle purchase and behavior, no additional instrument. **Industry cutting edge technology.**





Conclusion

Professional Anesthesia Settings

LH15-6 Hockey Stick Probe

wiNeedle Intelligent Needle Visualization

wiGuide Intelligent Needle Tracking



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PROFESSIONAL DESIGN

PART 3

Thought of Innovative Design

- ▶ Preparing
- ▶ During Procedure
- ▶ Ending

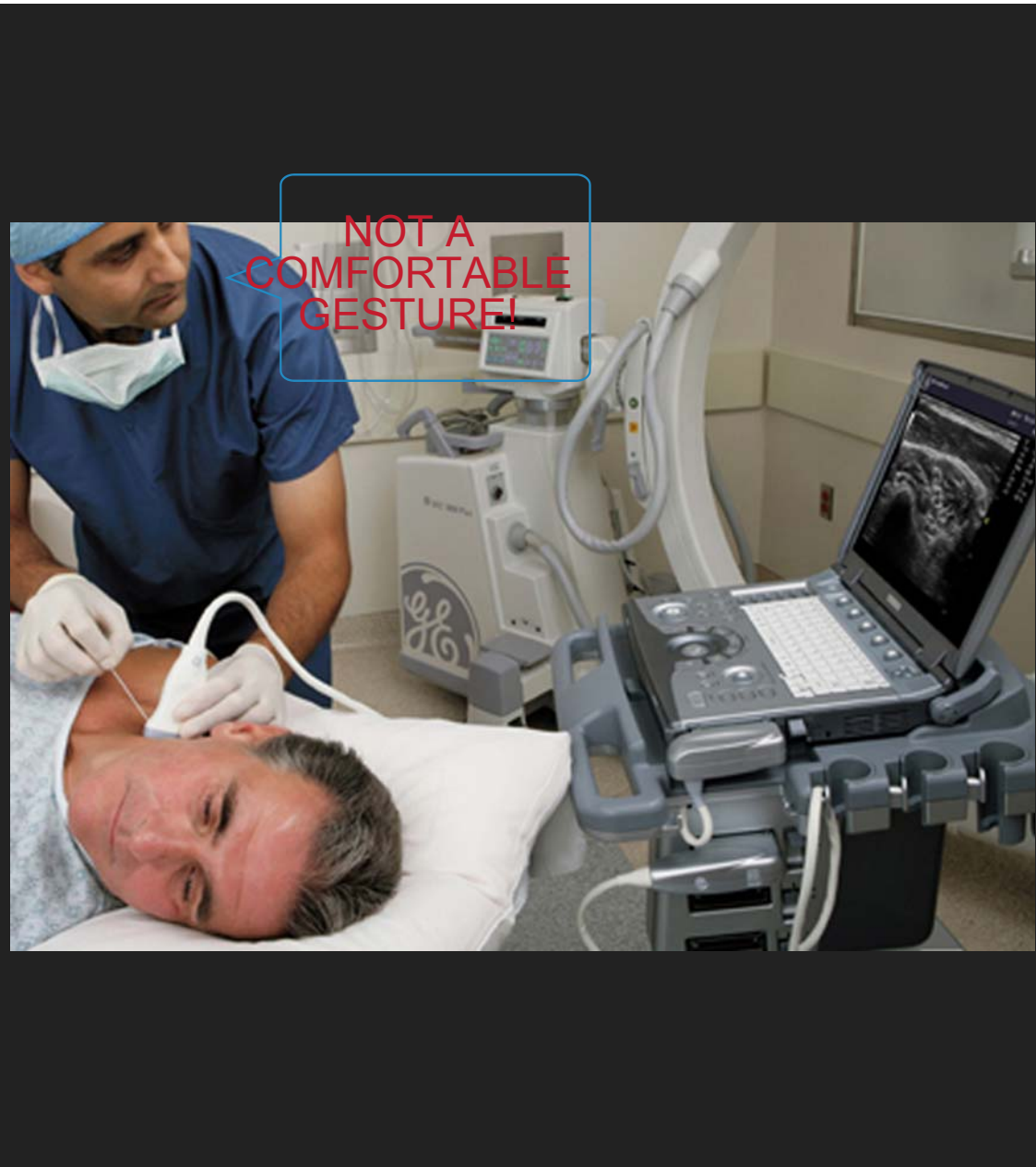


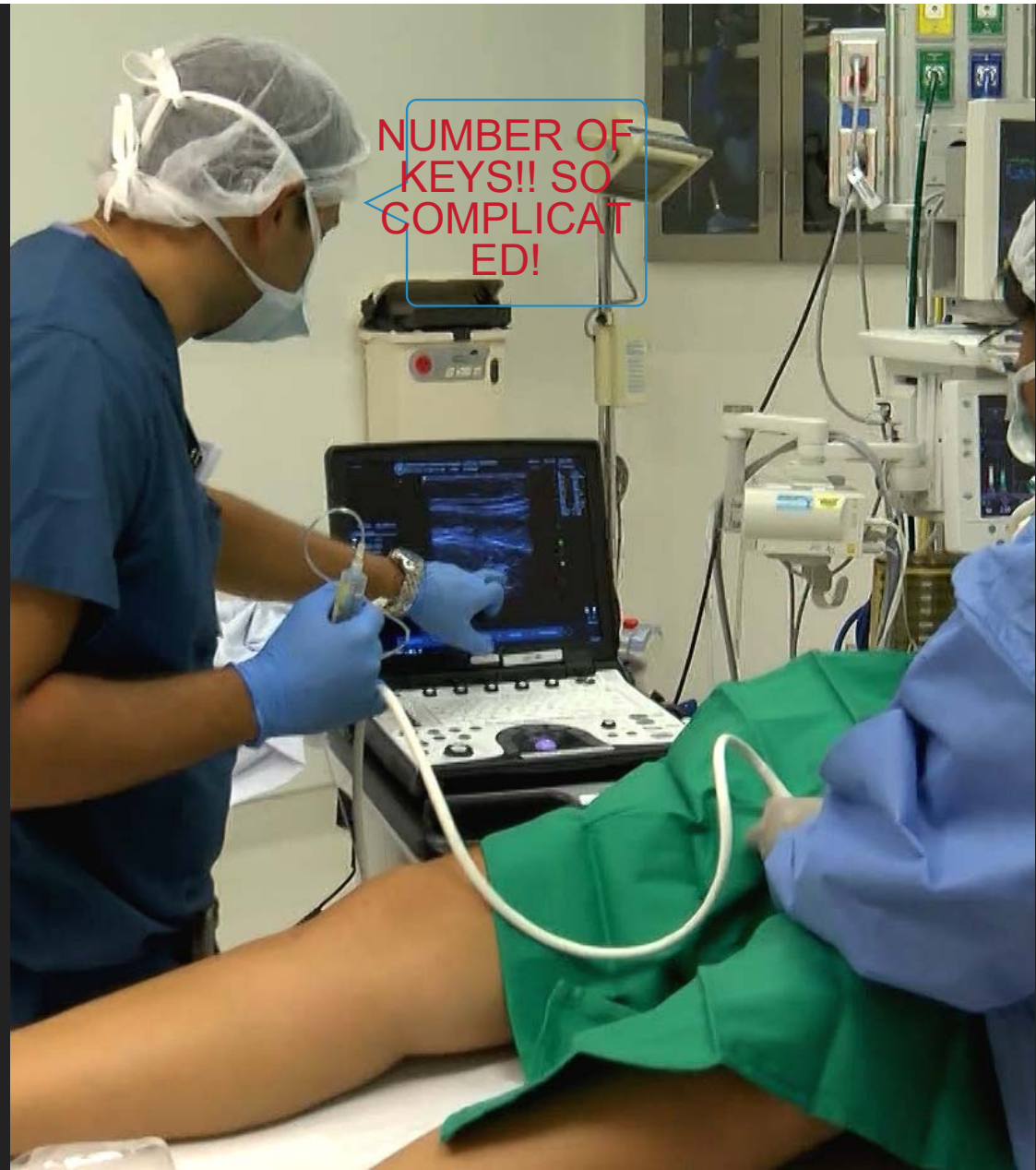


TOO HEAVY
AND LARGE!



LIMITED
SPACE!







HOW CAN I
OPTIMIZE
MY IMAGE??



CAN I MAKE
IT BIGGER
AND
CLEARER??

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PREPARING

Design points



Can be mounted on wall

Full of simplicity but not simple

Possible for frontal or rear mount

Aluminum alloy

Stable and robust

Larger wheels for better passing

Whole Day Battery

- ▶ Pain Point: Risk of contamination between every plug in and out; Wasting time to find socket; Afraid of sudden power off; Risk of trip over by cable on floor.
- ▶ Navi: Duration for a whole day operation, battery duration indication at LCD in minute format.
- ▶ Advantage: **The only system on market which can use battery for over 7 hours continuously.**



Electrical Height Adjustment

- ▶ Pain Point: Different regional anesthesia location needs variable position, and may switch several times, for example: Radial artery(sitting), CVC(mostly standing), other region (sitting or standing)
- ▶ Navi: one button height adjustment, 30cm height range.
- ▶ Advantage: **Unique one among anesthesia ultrasound systems with electrical adjustment,** quick respond to comfortable position.



Dedicated Probe Holder for Disinfection

- ▶ Pain Point: It is a must to do probe disinfection, but there should be two persons to assist each other finishing disinfection. It is not possible for only one person to finish whole procedure.
- ▶ Navi: Dedicated probe holder for disinfection, support commonly used probe L15-4B, C5-1B.
- ▶ Advantage: **The first to provide dedicated solution for probe disinfection.**



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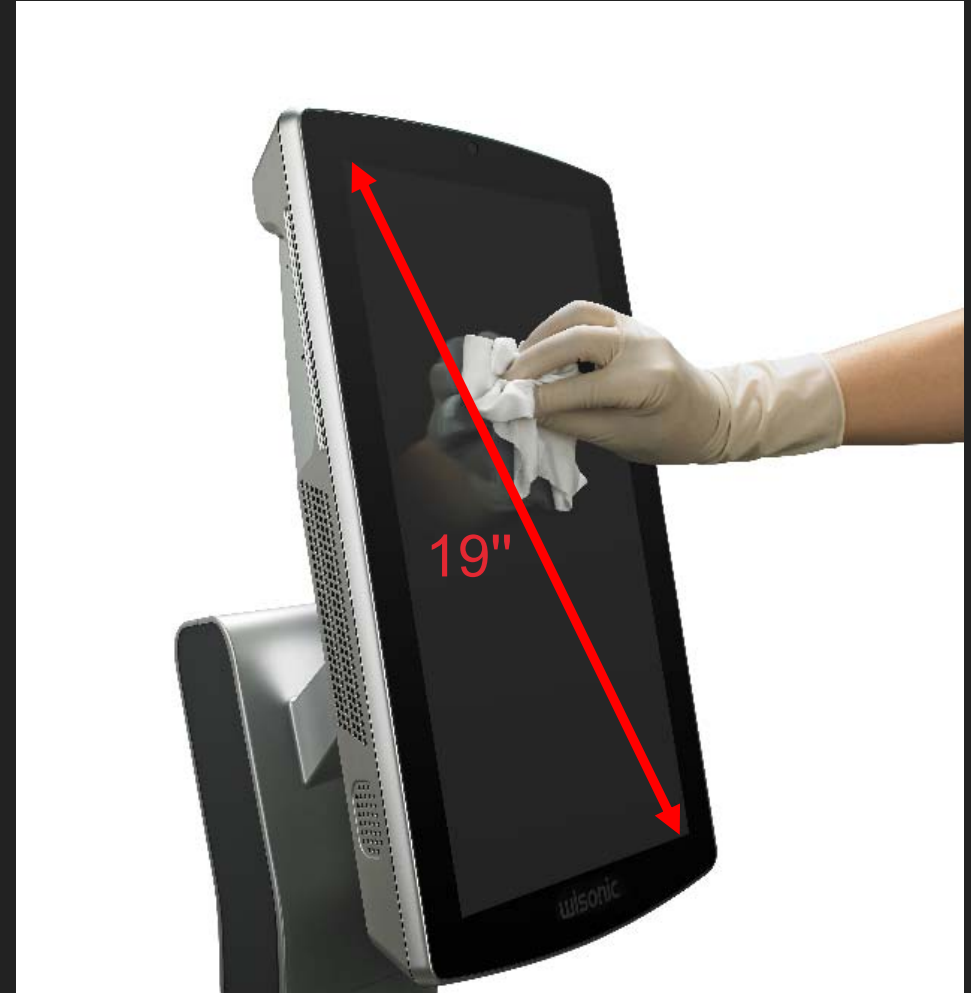
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DURING PROCEDURE

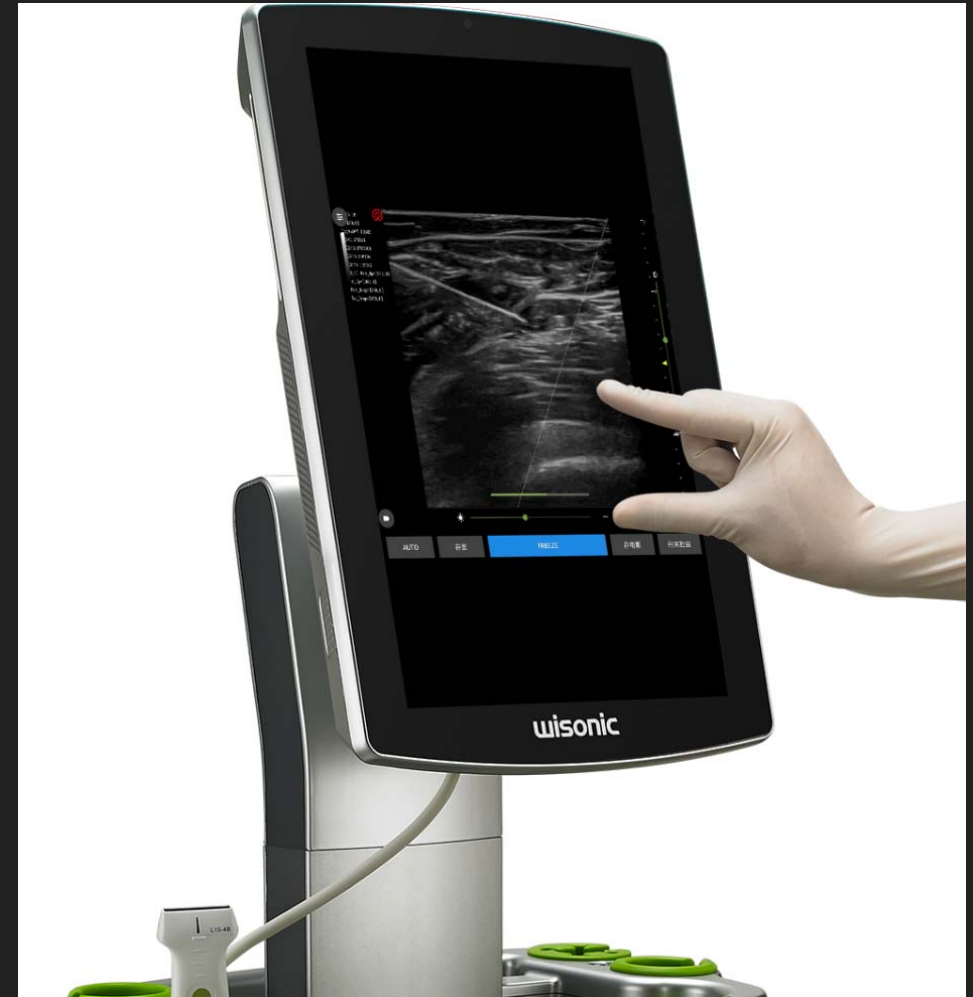
Ultrasound Industry Largest Touch Screen

- ▶ Pain Point: performing regional anesthesia, doctors always sit opposite side of the bed, far away from the machine; Accidentally having the blood spilled on the monitor or control panel; Anesthesiologists are afraid of interacting with many keys on the control panel.
- ▶ Navi: 19-inch touch screen, graph-guided interface, easy to clean. Increase 40% image area than other available models on the market
- ▶ Advantage: **Ultrasound industry largest touch screen!! Long distance view, easy to interact and clean. TE7 15", Venue 50 12.4"**



Ultra-simple Mode

- ▶ Pain Point: greater than 1.5 meters away view the image, don't care operation, only concern image.
- ▶ Navi: Ultra-simple, one button to full screen zoom.
- ▶ Advantage: Simple to use, easy to focus. Venue 50 does not have; TE7 can not save image under full screen mode.



Remote Control Probe

- ▶ **Pain Point:** As procedure on going, while doctors are sitting far away from the machine, they are not able to optimize image, freeze, save image etc... Although maybe they can reach out, but the latex gloves will be contaminated via touching the system.
- ▶ **Navi:** L15-4B, C5-1B, C7-3B support buttons on probe.
- ▶ **Advantage:** The first introducing remote probes to anesthesia ultrasound. Support quick switch probe via any button. Save image, optimize image are possible.



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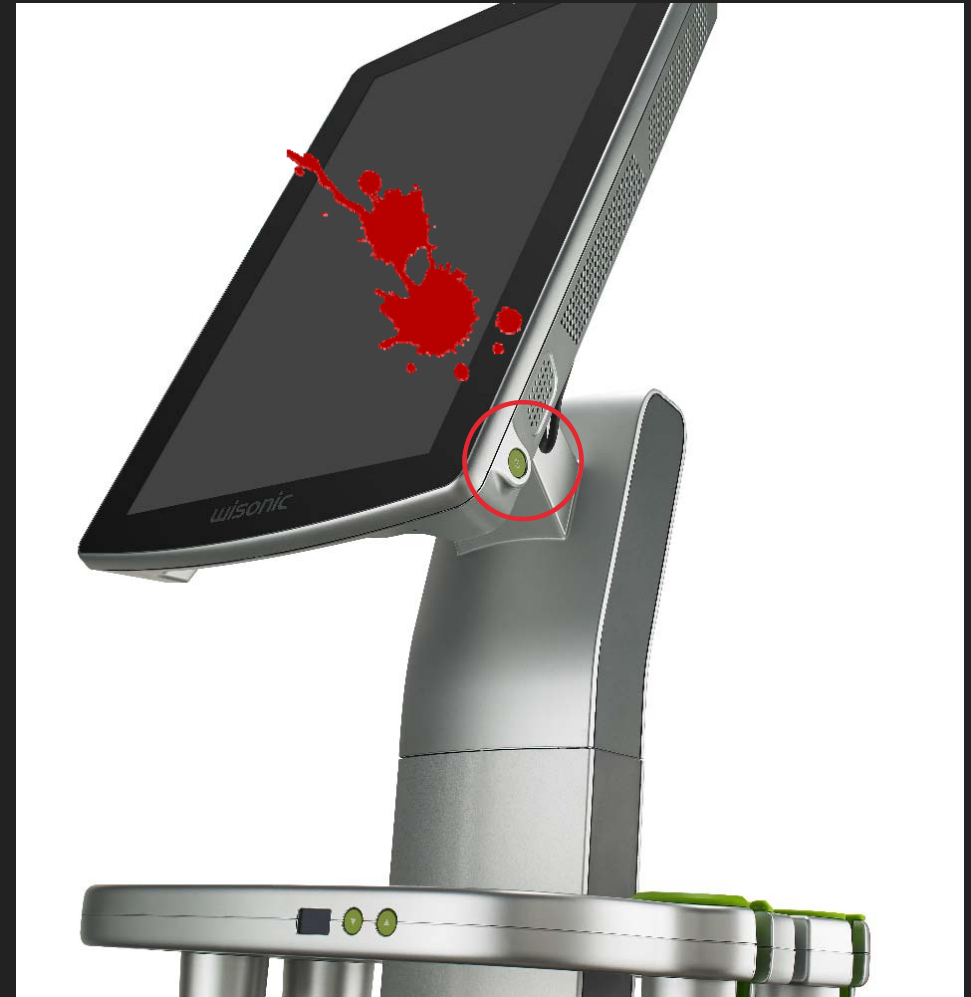
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ENDING

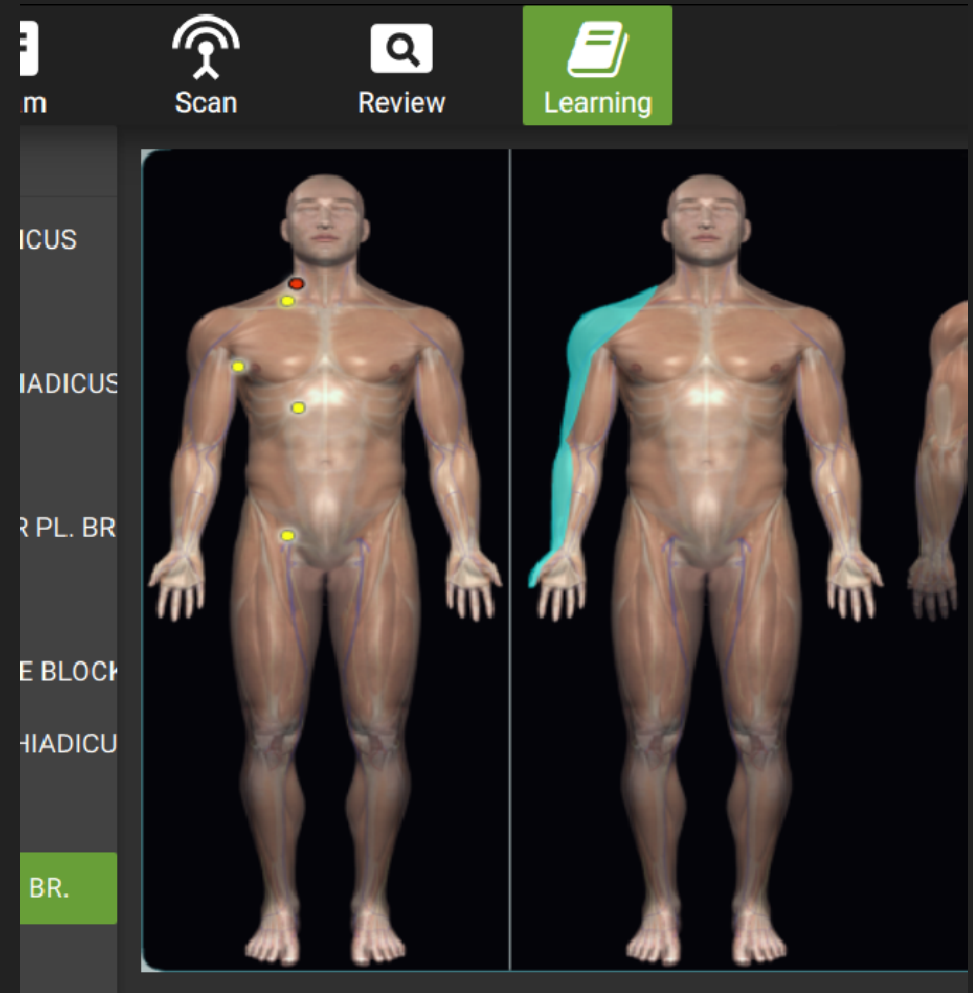
Quick Sleep Via Power Button

- ▶ Pain Point: Several surgery room share one machine. Moving machine frequently room to room need instant boot-up. Need cleaning but don't want to active functions.
- ▶ Navi: Press power button to sleep, like smart phone behavior.
- ▶ Advantage: Same ideology to smart phone, easy to use and perceive.



wiLearn Education Center

- ▶ Pain Point: Many are beginners in ultrasound, but they do not have much time and chance to learn from others due to their heavy work; Ultrasound is much complicated and subjective .
- ▶ Navi: Comprehensive learning materials, covering regional anesthesia and pain management.
- ▶ Advantage: **First professional machine to have professional education software, helpful due to online education with live self demo ability.**



DURING PROCEDURE

wiLearn

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The screenshot displays the wisonic ultrasound software interface. At the top, the time is 11:42:20 AM and the date is 2016/07/06. The patient name is Navi u. The scan parameters are AP 100... MI 0.7 TIB 0.25 L15-4(A) 甲状腺. The main display shows a real-time B-mode ultrasound image of a thyroid gland with three yellow arrows pointing to a dark, hypoechoic area. The interface includes various controls such as a zoom slider, a 40mm scale bar, and buttons for 'Auto', '存图', '冻结', '存电影', and '结束检查'. At the bottom, there is a navigation menu with icons for '病人', '检查', '扫查', '浏览', '学习', and '报告'. The '学习' (Learning) section is expanded, showing a 'Position' guide with three anatomical diagrams and their descriptions.

11:42:20 AM
wisonic
Navi u
AP 100... MI 0.7 TIB 0.25 L15-4(A) 甲状腺
2016/07/06
11:42:20 AM
FH 10
FR 51
Z 1.0
40mm
Auto 存图 冻结 存电影 结束检查
病人 检查 扫查 浏览 学习 报告
← ...
Position
Navigation
Target
Needling
Tips & Tricks
Position
The supine position, arm abducted to 90° and externally rotated.
Place the probe transversely to the lateral region of the axilla.
Initial landmarks: The humerus, the brachial artery, the biceps and the triceps muscles.

Realtime image

Demo graphics

PROFESSIONAL DESIGN CONCLUSION

Preparing	During Procedure	Ending
Smart and lightweight	19" touch screen	Liquid clean or disinfect
7 hours battery for whole day heavy work	Remote probe	wiLearn education center
One button electrical up&down	Ultra-simple mode	Quick sleep via power button
Dedicated probe holder for disinfection		

Anesthesia industry first
professional ultrasound for
exclusive use!!

Navi