



BD[®] SiteRite[™] 9 Ultrasound System

In-service guide

SiteRite™ 9 Ultrasound System Indications For Use



The SiteRite™ 9 Ultrasound System is intended for diagnostic ultrasound imaging of the human body performed by appropriately trained healthcare professionals in a medical setting. Specific clinical applications include:

- Pediatric
- Peripheral Vessel and Vascular Access
- Small Organ (breast, thyroid, parathyroid, testicles)
- Musculo-skeletal (conventional and superficial)
- Cardiac (adult and pediatric)

The SiteRite™ 9 Ultrasound System is indicated for vascular, vascular access, interventional, and superficial imaging applications. Typical examinations performed using the SiteRite™ 9 Ultrasound System include:

Imaging applications	Exam type (adult and pediatric)
Vascular	Assessment of vessels in the extremities and neck leading to or coming from the heart, superficial veins in the arms and legs and vessel mapping. Assessment of superficial thoracic vessels.
Vascular Access	Guidance for PICC, CVC, dialysis catheter, port, PIV, midline, arterial line placement, access to fistula and grafts, and general vein and artery access
Interventional	Guidance for biopsy and drainage
Superficial	Assessment of breast, thyroid, parathyroid, testicle, lymph nodes, musculoskeletal procedures, soft tissue structures, and surrounding anatomical structures

Getting to know your SiteRite™ 9 Ultrasound System

- Physical features
- Main screen settings
- Main tool bar settings
- Sherlock 3CG+™
- Sherlock 3CG+™ settings
- Ultrasound mode settings
- Vessel assessment tools
- Cue™ Needle Tracking
- Doppler
- Voice command

SiteRite™ 9 Ultrasound System physical features

Console and probe features



Probe connector lock

Probe connector

USB, Ethernet and HDMI ports and power connection

Kickstand

Battery



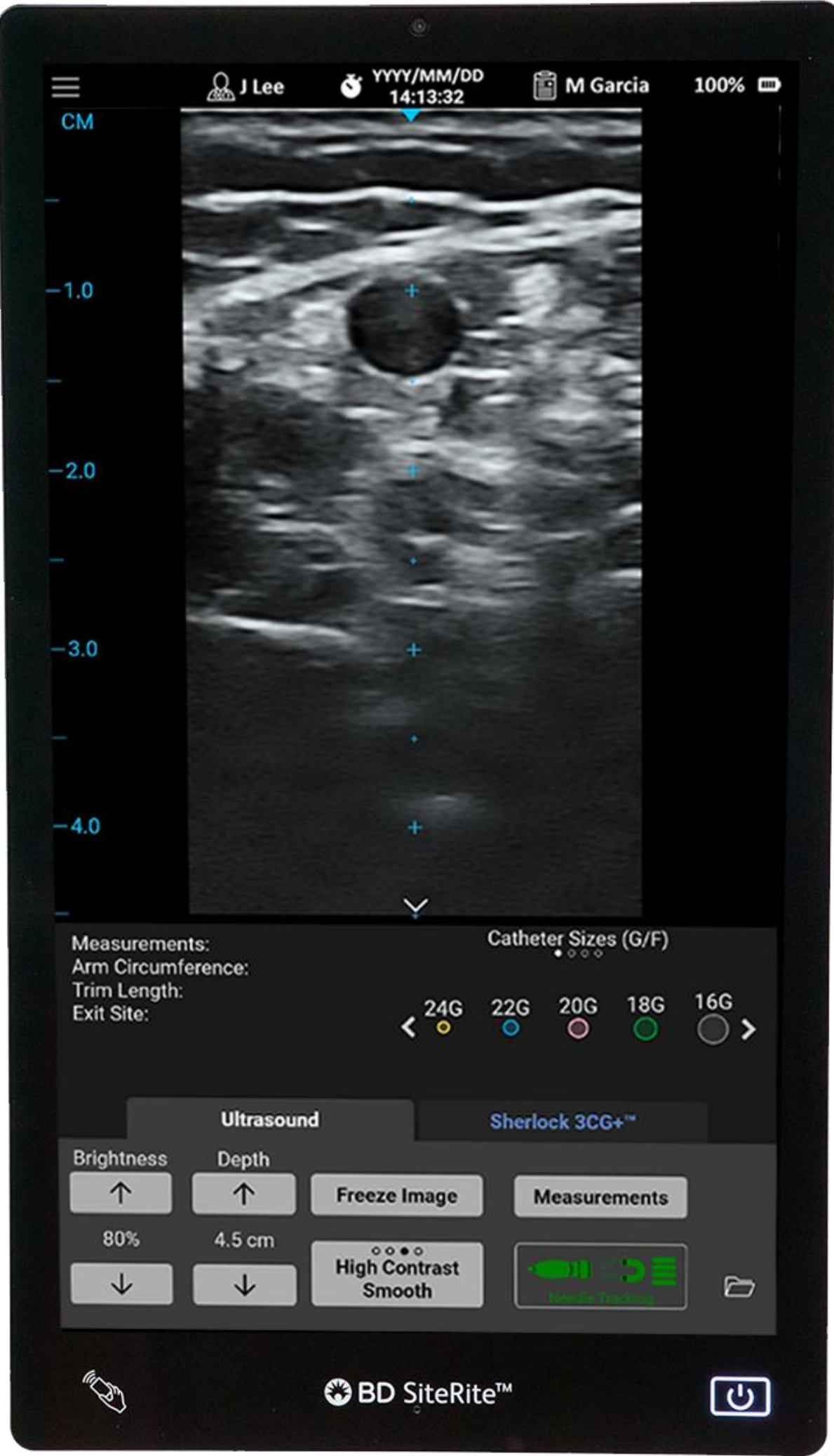
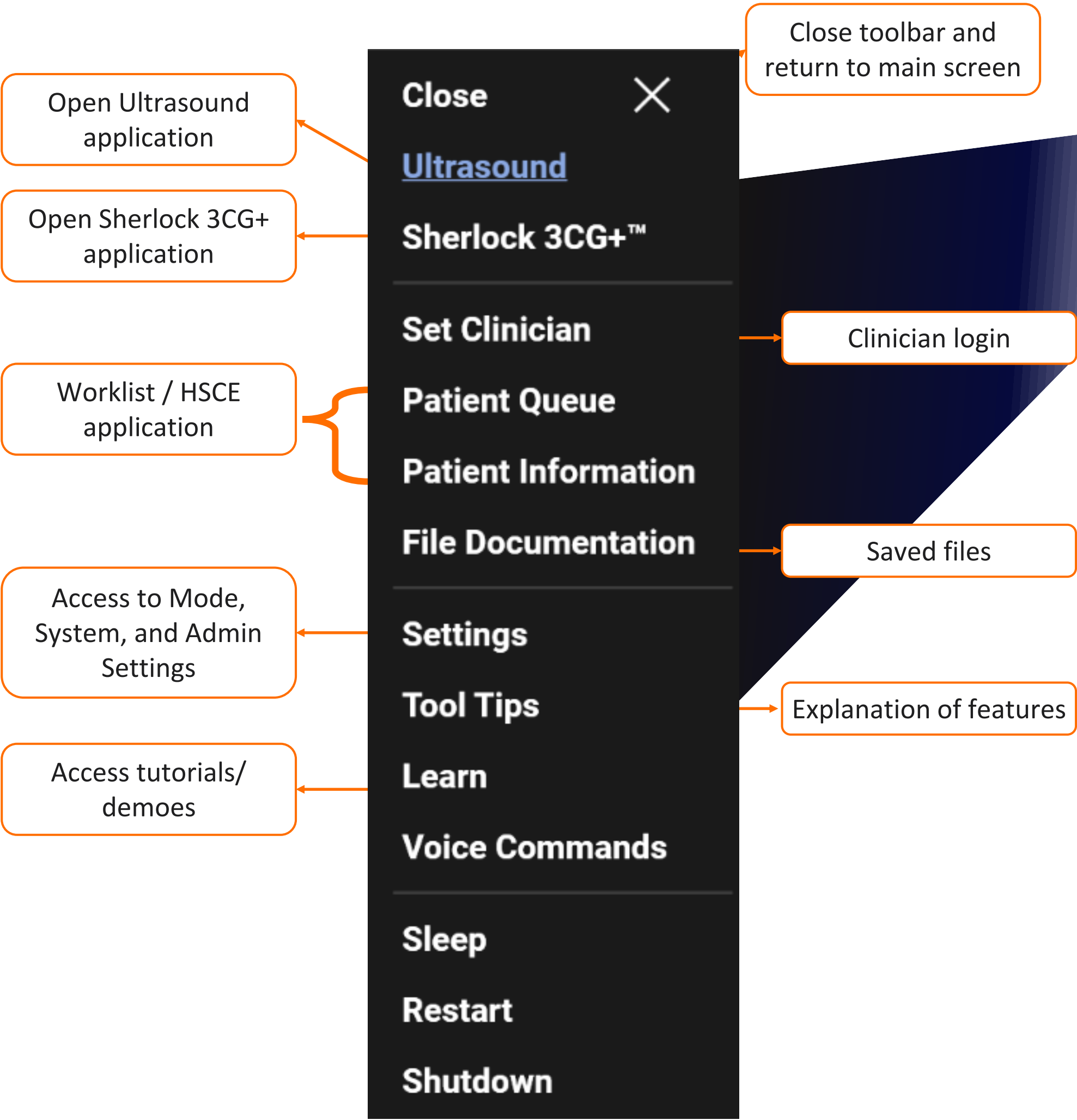
SiteRite™ 9 Ultrasound System main screen features

The diagram illustrates the main screen of the SiteRite™ 9 Ultrasound System, featuring a large central ultrasound image and various control panels. Callouts identify the following features:

- Clinician profile:** Located at the top left, showing the name 'J Lee'.
- Antiseptic timer:** Located at the top center, showing a clock icon and the time '14:13:32'.
- Date and Time:** Located at the top center, showing the date 'YYYY/MM/DD'.
- Patient information:** Located at the top right, showing the name 'M Garcia'.
- Battery indicator:** Located at the top right, showing a battery icon and '100%'.
- Access to Main Toolbar:** Located on the left side, showing a hamburger menu icon.
- Image depth scale:** Located on the left side, showing a vertical scale from -1.0 to -4.0.
- Depth markers:** Located on the right side of the ultrasound image, showing horizontal lines with '+' markers.
- Measurement:** Located at the bottom left, showing 'Arm Circumference', 'Trim Length', and 'Exit Site'.
- Catheter Sizes (G/F):** Located at the bottom left, showing a row of buttons for 24G, 22G, 20G, 18G, and 16G.
- Ultrasound controls:** Located at the bottom left, showing buttons for 'Brightness' (up/down arrows), 'Depth' (up/down arrows), 'Freeze Image', and 'Measurements'.
- Sherlock 3CG+™ controls:** Located at the bottom right, showing buttons for 'Needle Tracking' and 'High Contrast Smooth'.
- Automatic vessel detection and measurement tools:** Located at the top right of the control panel, showing a row of buttons for '24g', '22g', '20g', '18g', and '16g'.
- Brightness, Depth, Freeze image, Change filters:** Located in the center of the control panel, showing buttons for 'Brightness', 'Depth', 'Freeze Image', and 'Measurements'.
- Cue™ magnetization indicator:** Located at the bottom right, showing a green bar with a magnet icon.

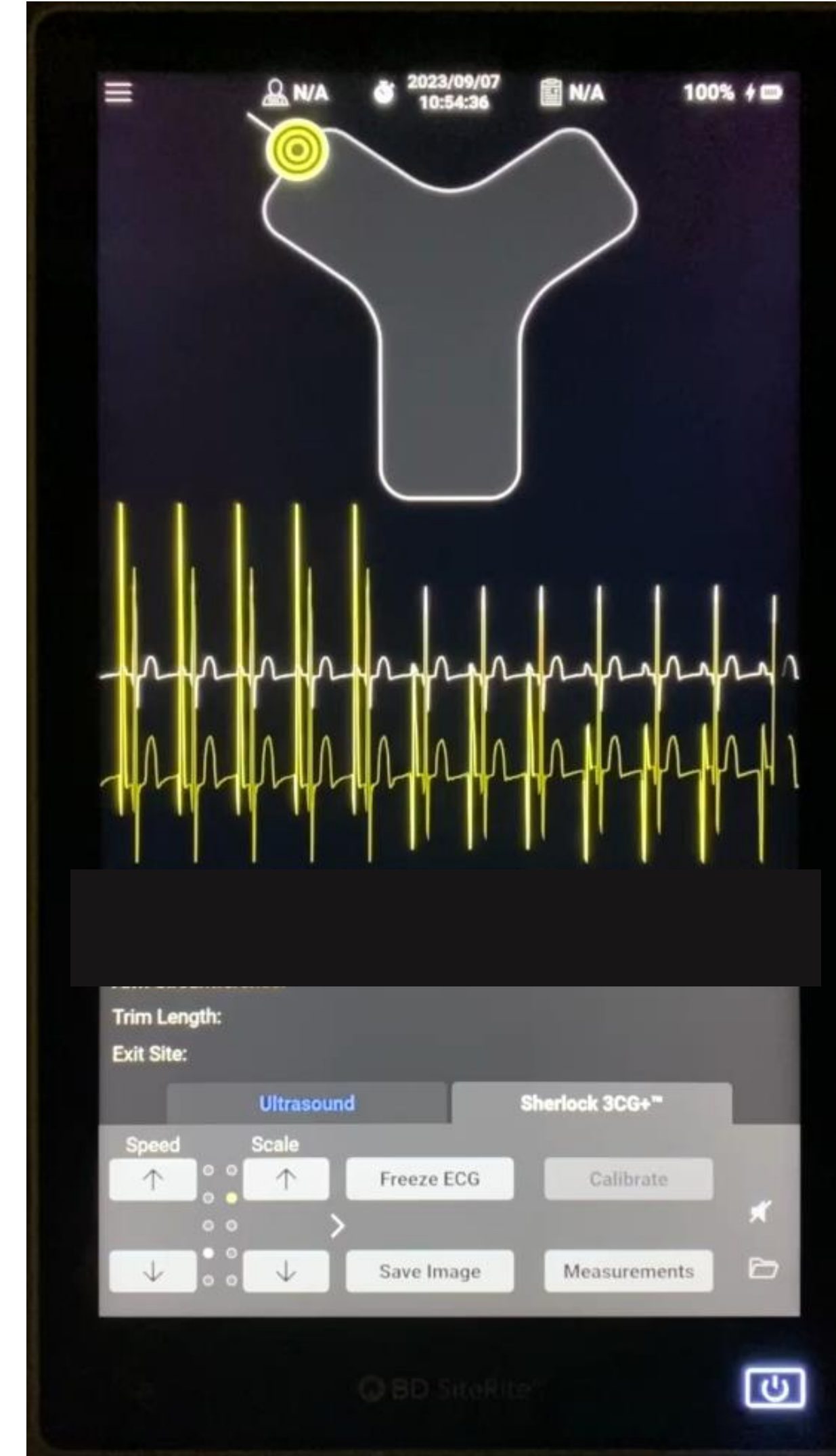
Main Toolbar

The main toolbar is located on the left side of the main ultrasound screen and contains the following buttons



SiteRite™ 9 Ultrasound System with Sherlock 3CG+™ Tip Confirmation System

- ✓ The Sherlock 3CG+™ Tip Confirmation System is available fully integrated, combining ultrasound, catheter location and ECG PICC tip confirmation technology into one system. **PICC tip placement is confirmed with the Sherlock 3CG+™ System as an alternative to chest X-ray in patients with an identifiable P-wave.**



SiteRite™ 9 is fully integrated with Sherlock 3CG+™

Sherlock 3CG+™ features and settings

External and internal ECG wave

Adjustable speed and scale

Freeze and save capabilities that can communicate with DICOM/PACS/ EMR

Input for measurements

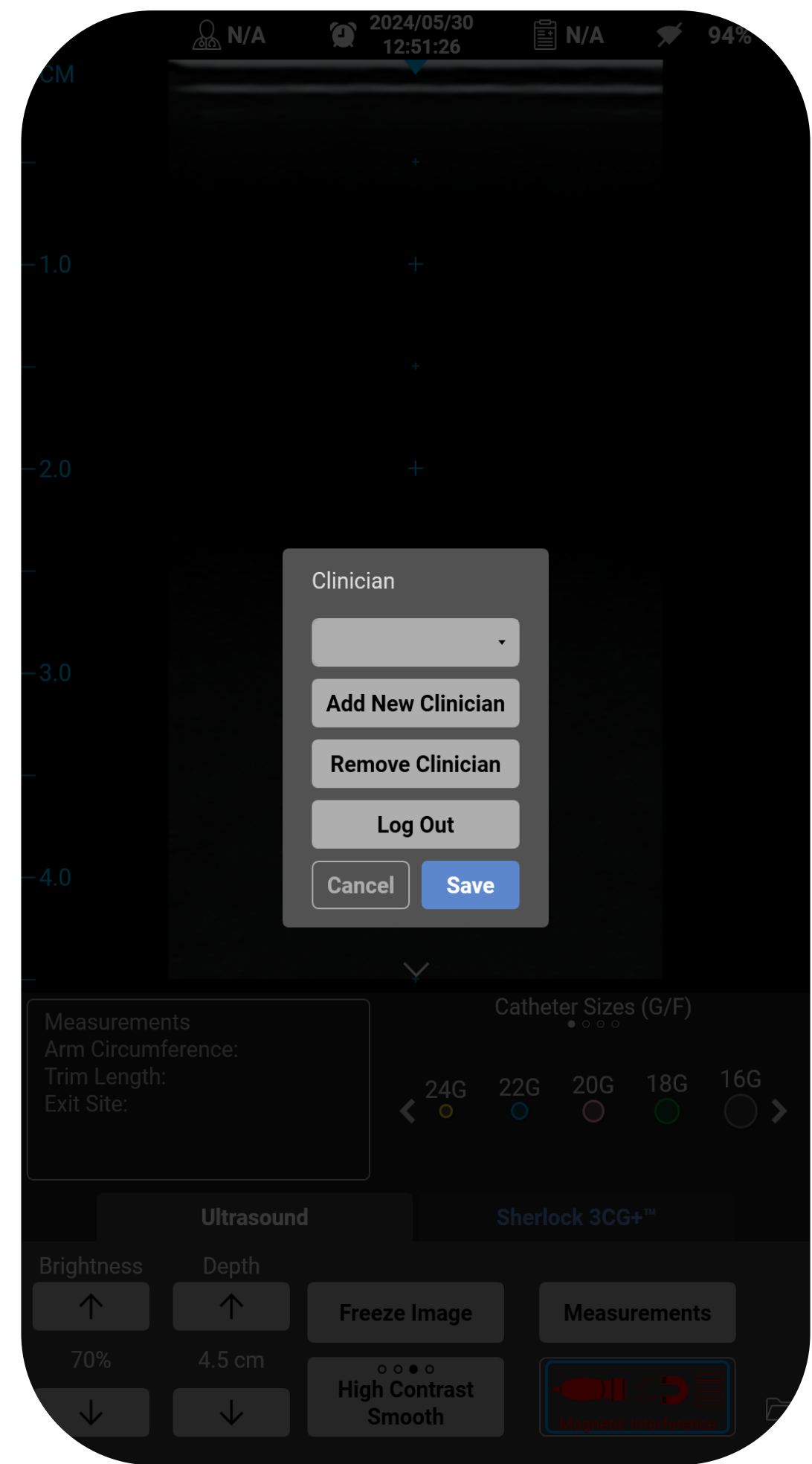
Measurements:
Arm Circumference:
Trim Length:
Exit Site:

Speed Scale Freeze Image Calibrate

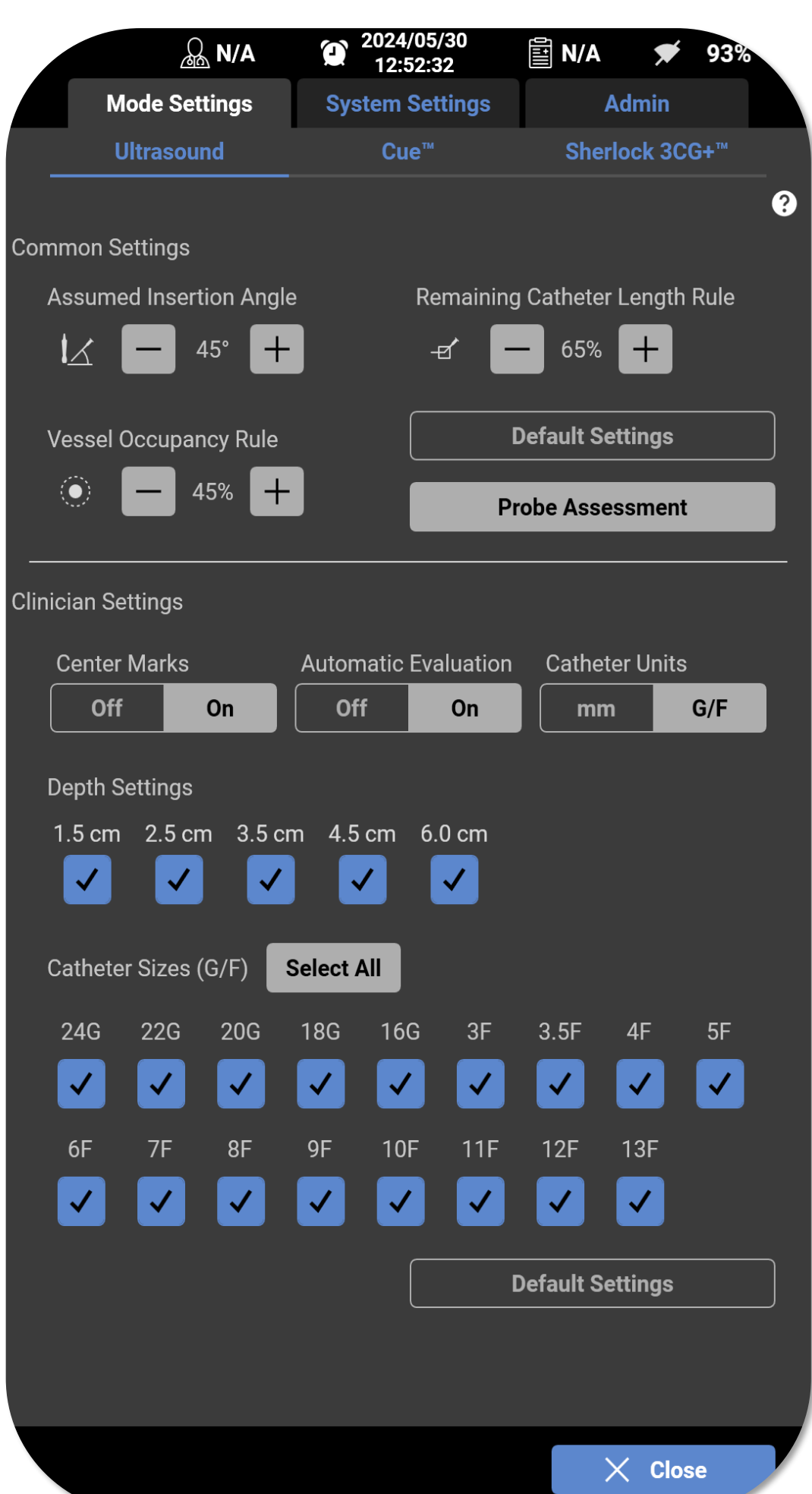
Save Image Measurements

Ultrasound Mode settings

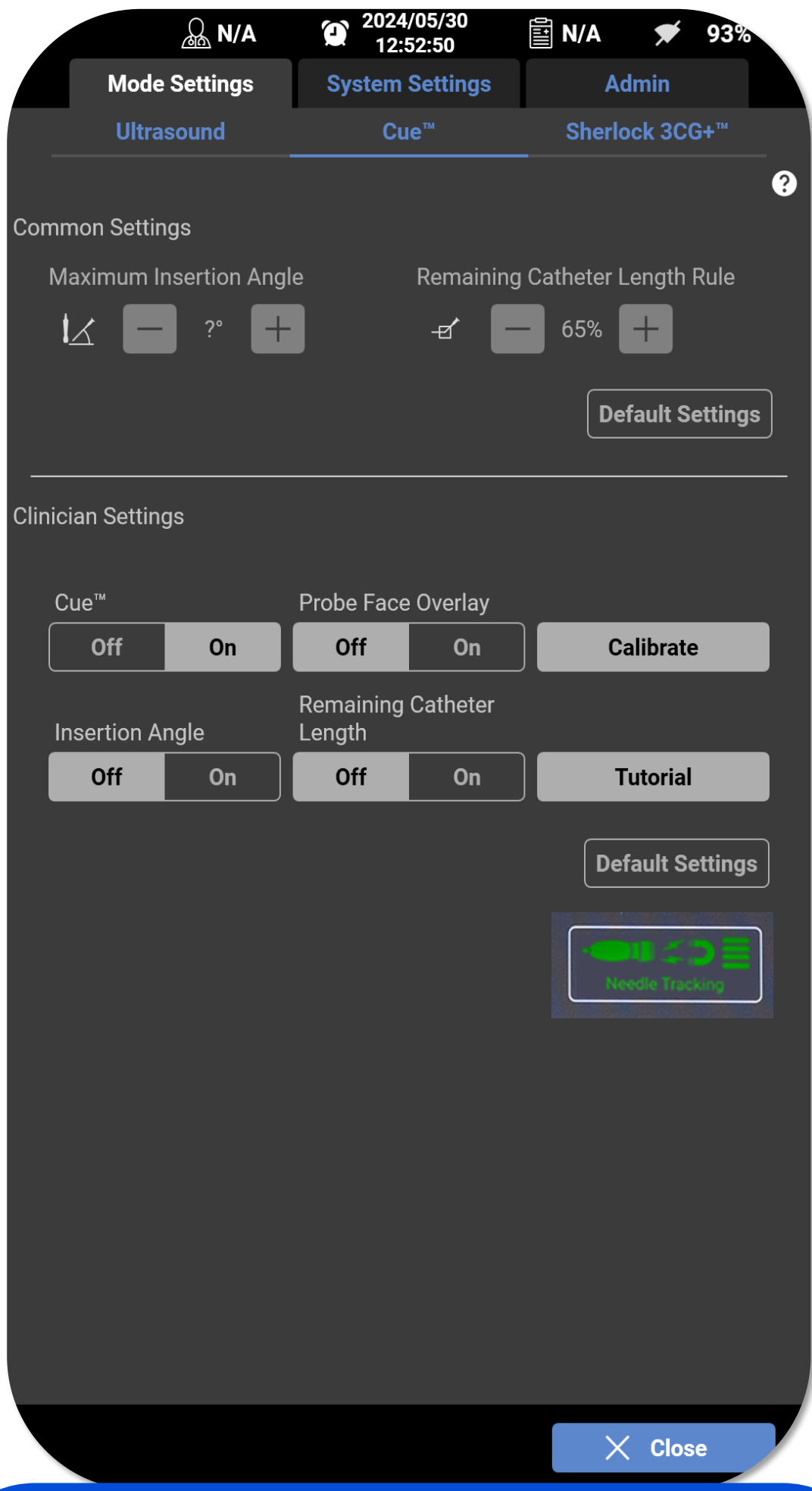
Personalize your clinician profile to your preferred settings



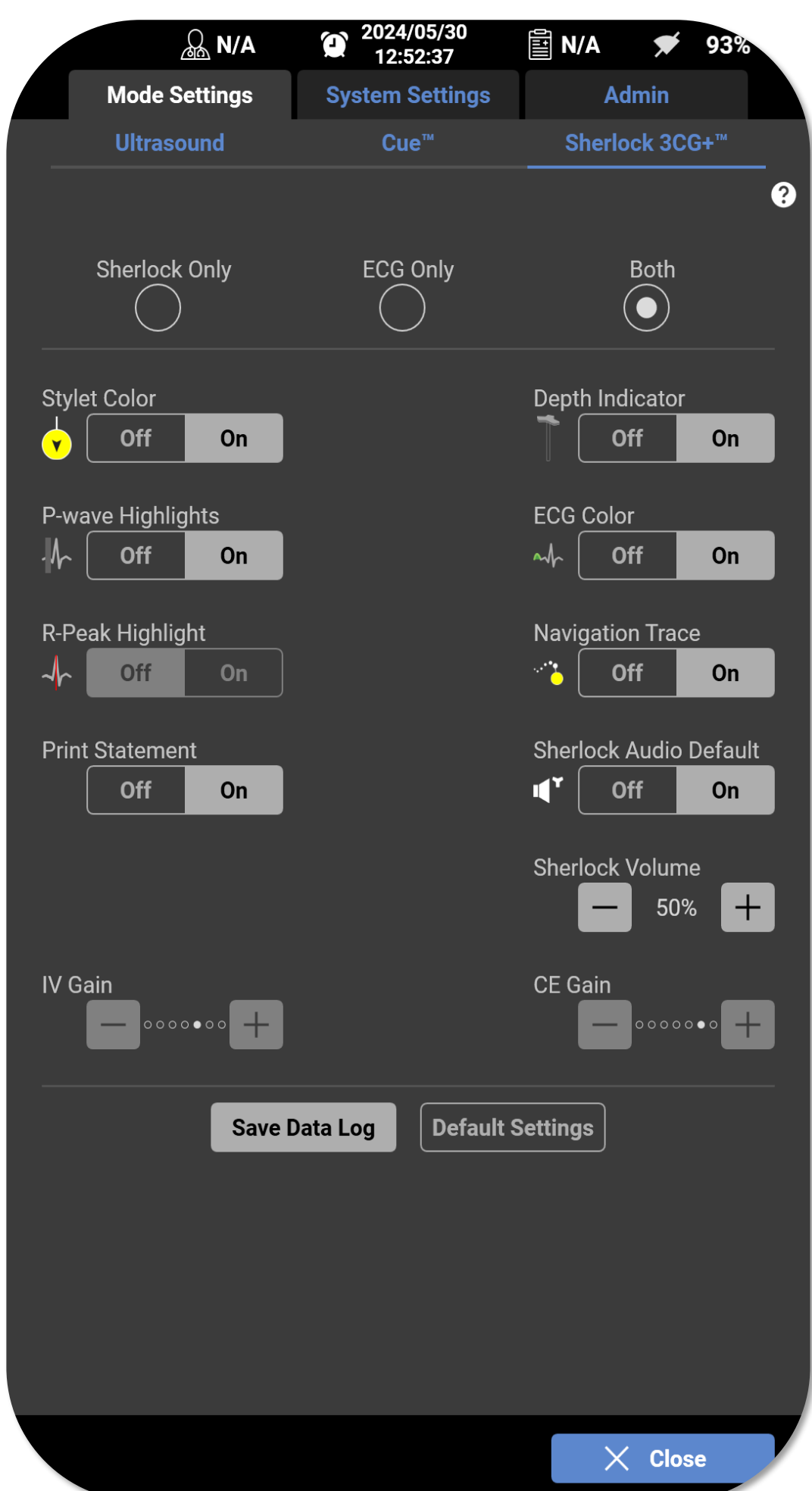
01 Create, remove and access **clinician profile** to personalize ultrasound settings



02 Adjust **ultrasound system** settings as desired, set vessel assessment tools



03 Adjust **Cue™ system** settings, set vessel assessment tools



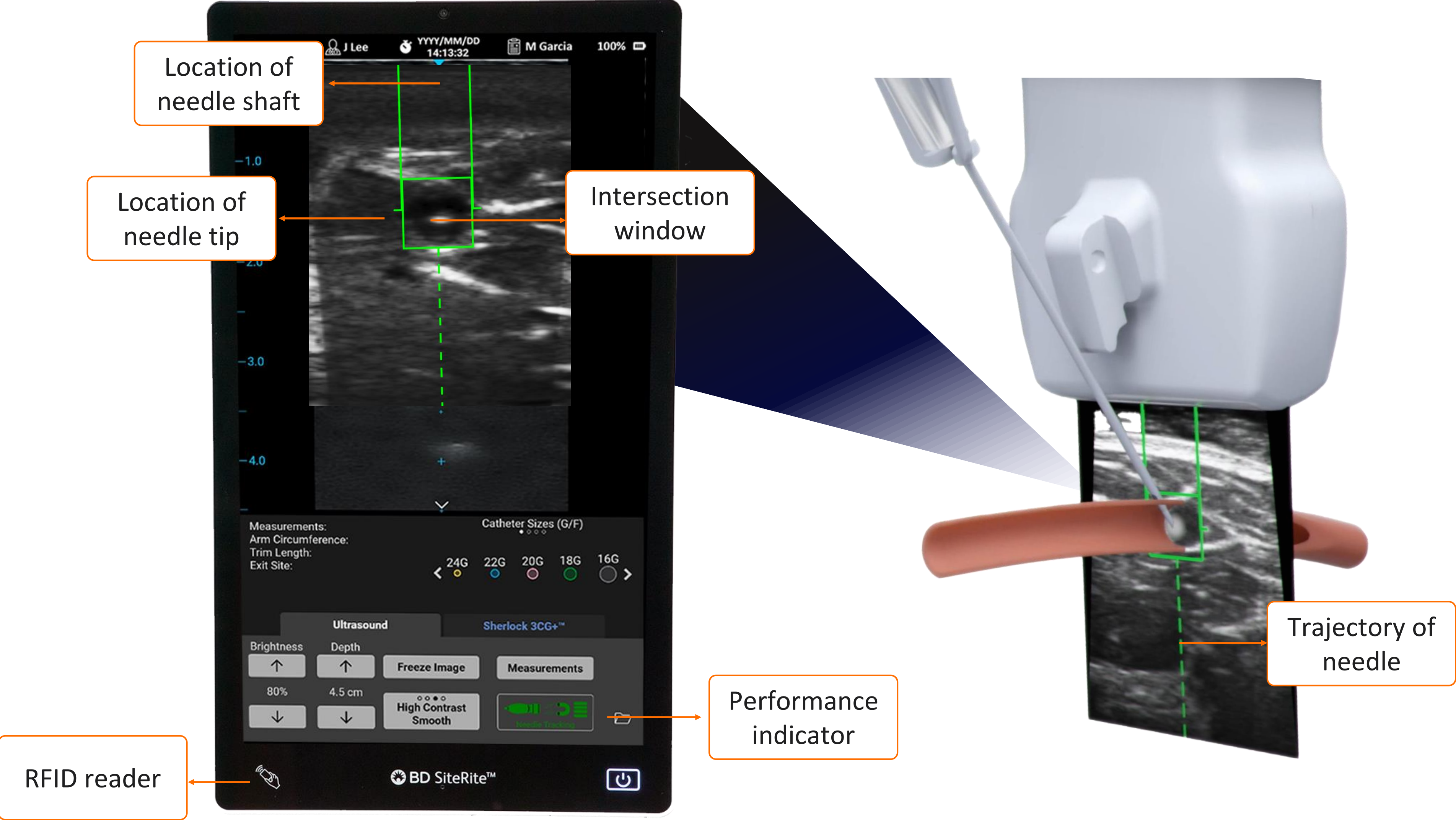
04 Adjust **Sherlock 3CG+™ system** settings- it's recommended to turn the depth indicator on

SiteRite™ 9 Ultrasound System features innovative vessel assessment tools

- ✓ Designed to automatically detect the vessel, then pair with vessel measurement tools to help clinicians select the appropriate catheter according to vessel occupancy, catheter length and assumed insertion angle, so they can make an informed decision every time.



SiteRite™ 9 Ultrasound System features Cue™ Needle Tracking

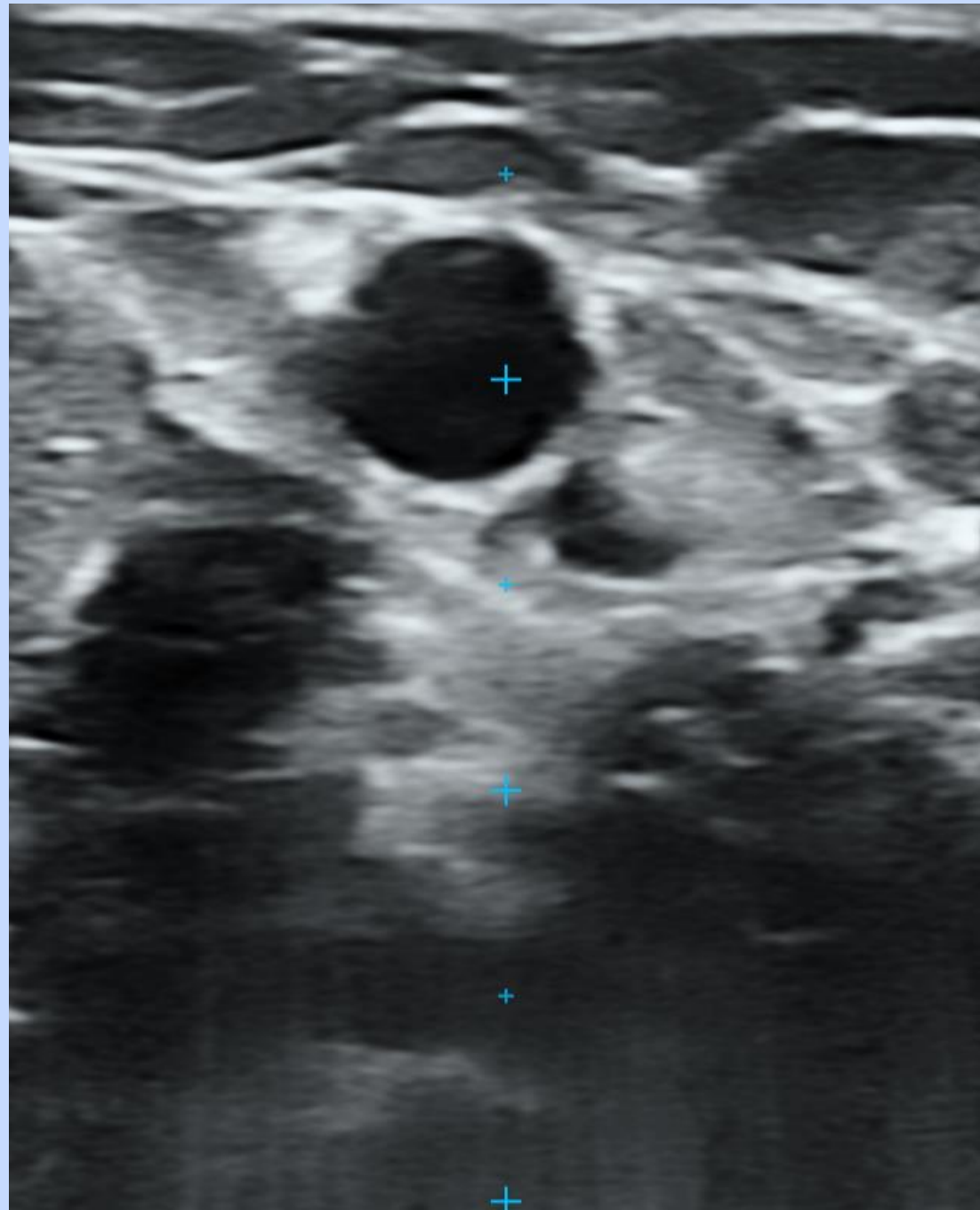


Touch the device less with voice commands

General Voice Commands	Ultrasound Voice Commands	Sherlock Voice Commands
SiteRite™ 9 Show Voice Commands	SiteRite™ 9 Brightness Up	SiteRite™ 9 Calibrate
SiteRite™ 9 Close Menu	SiteRite™ 9 Brightness Down	SiteRite™ 9 Freeze ECG
SiteRite™ 9 Freeze Image	SiteRite™ 9 Depth Up	SiteRite™ 9 Mute Sherlock
SiteRite™ 9 Unfreeze Image	SiteRite™ 9 Depth Down	SiteRite™ 9 Unmute Sherlock
SiteRite™ 9 Save Image	SiteRite™ 9 Doppler	
SiteRite™ 9 Volume Up	SiteRite™ 9 Exit Doppler	
SiteRite™ 9 Volume Down	SiteRite™ 9 Evaluate Vessel	
SiteRite™ 9 Arm Circumference (0-99)	SiteRite™ 9 Accept	
SiteRite™ 9 Delete Arm Circumference	SiteRite™ 9 Reject	
SiteRite™ 9 Exit Site (0-99)		
SiteRite™ 9 Delete Exit Site		
SiteRite™ 9 Trim Length (0-99)		
SiteRite™ 9 Delete Trim Length		
SiteRite™ 9 Start Thirty Second Timer		
SiteRite™ 9 Start Sixty Second Timer		
SiteRite™ 9 Stop Timer		

What are the different imaging modes that SiteRite™ 9 offers?

B-mode



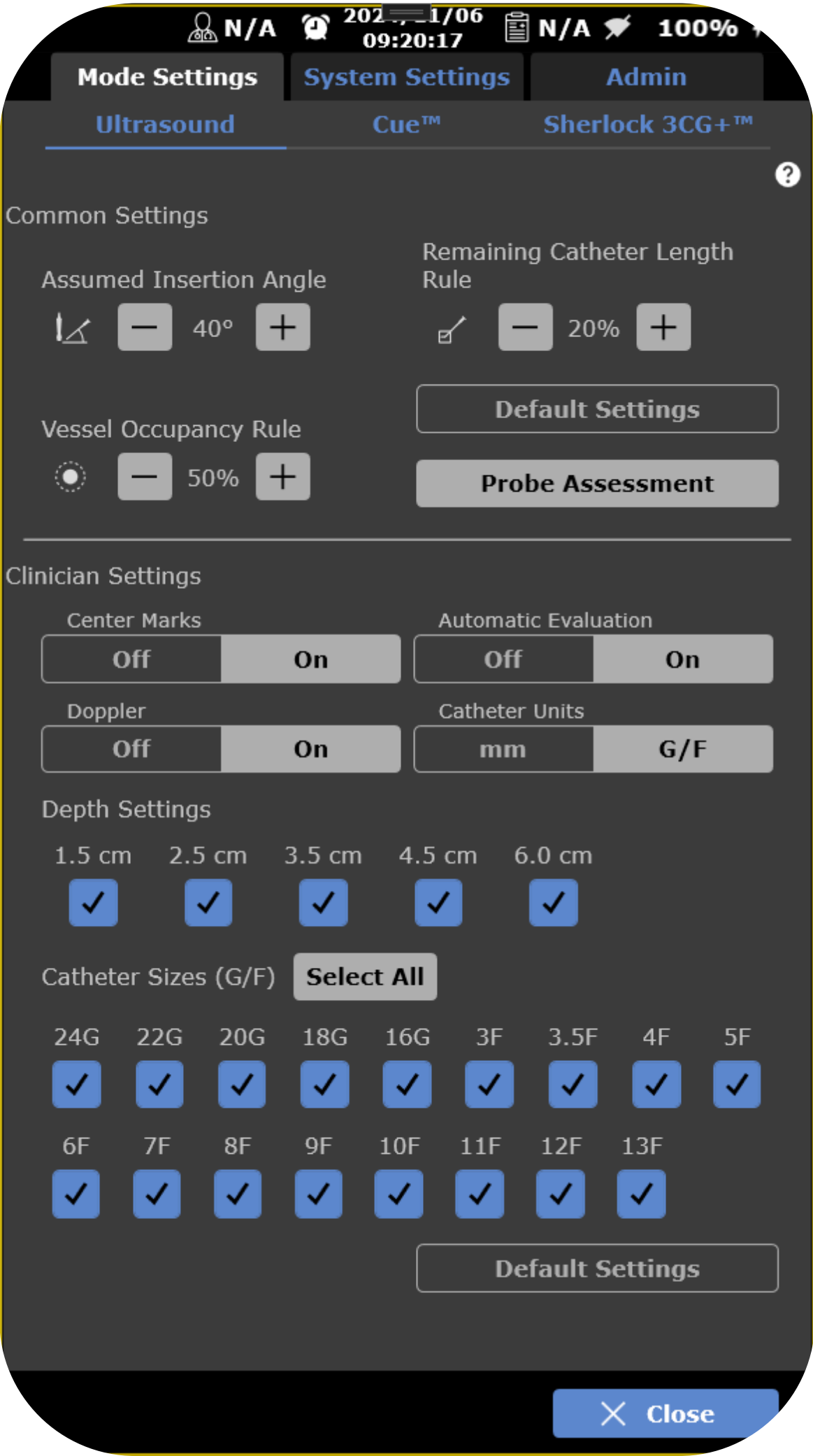
Utilizes amplitude to plot different shades of gray (or brightness) in a 2D image to provide structural information

Color doppler

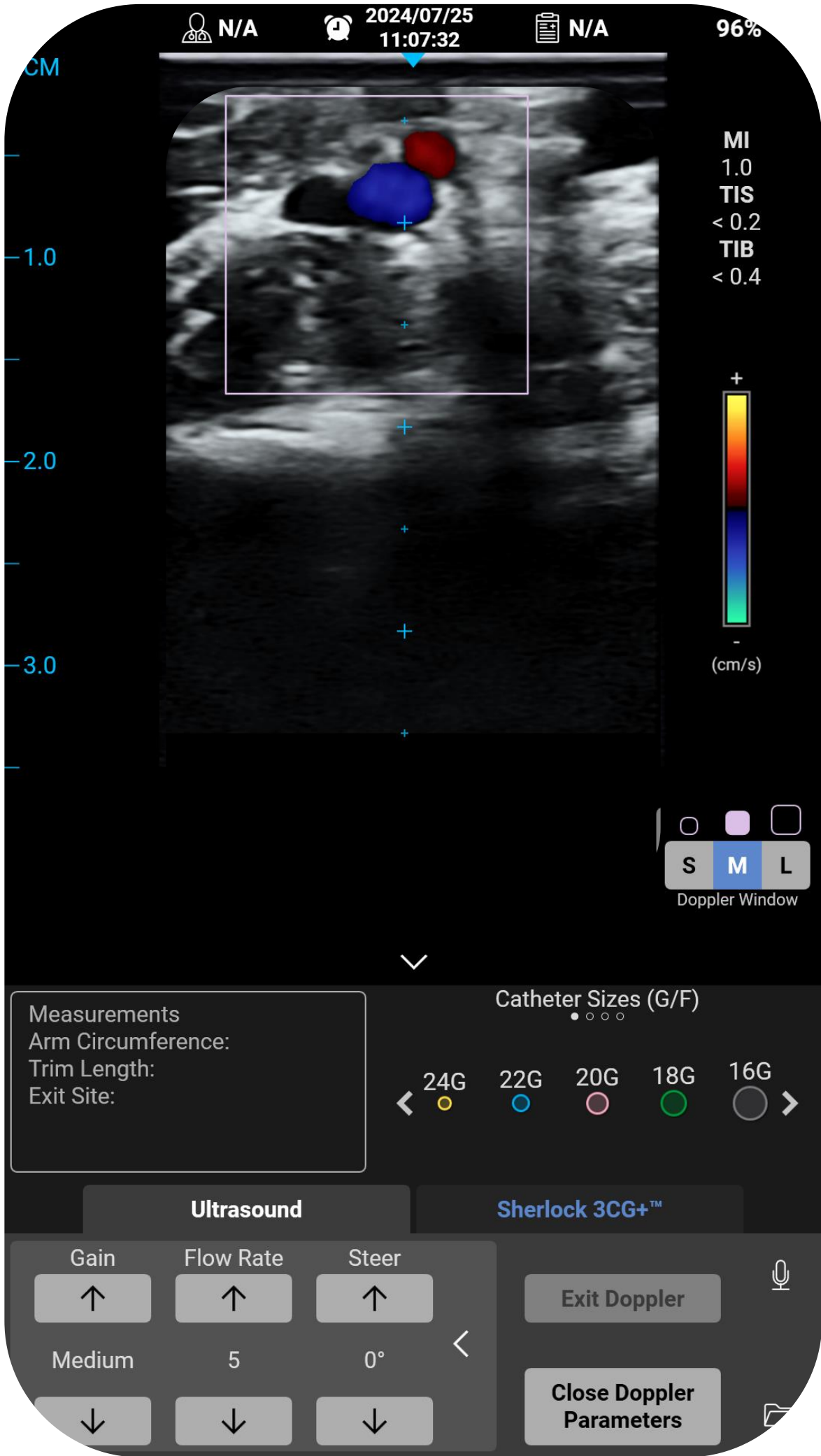


Uses flow velocity information by using the frequency and amplitude of returning waves and color scale that are superimposed on the corresponding b- mode image

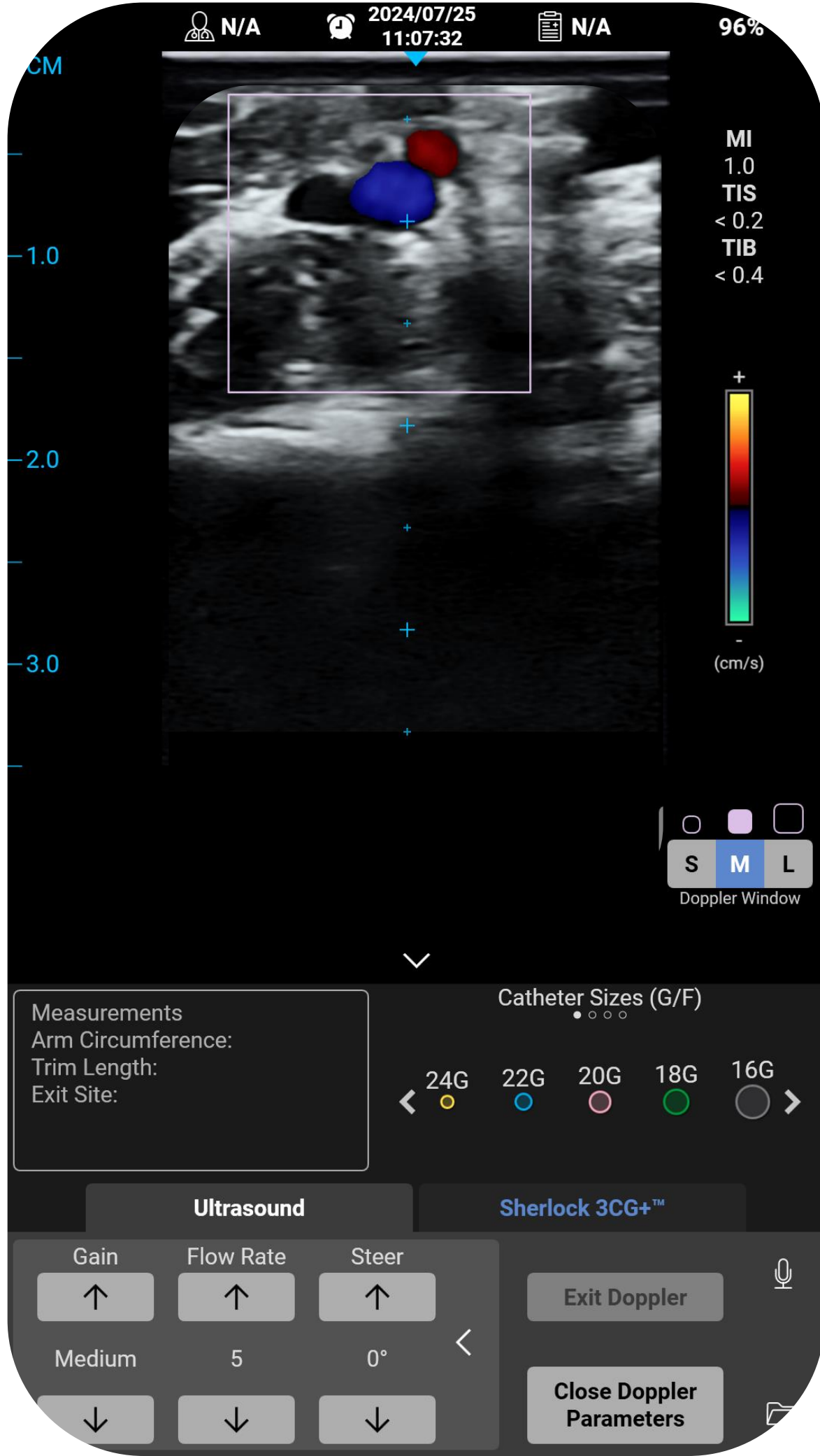
Getting familiar with color flow doppler settings on SiteRite™ 9



01 Enable doppler mode by going into mode settings, under ultrasound tab



02 Enter doppler mode, reposition doppler window by touch screen or probe buttons

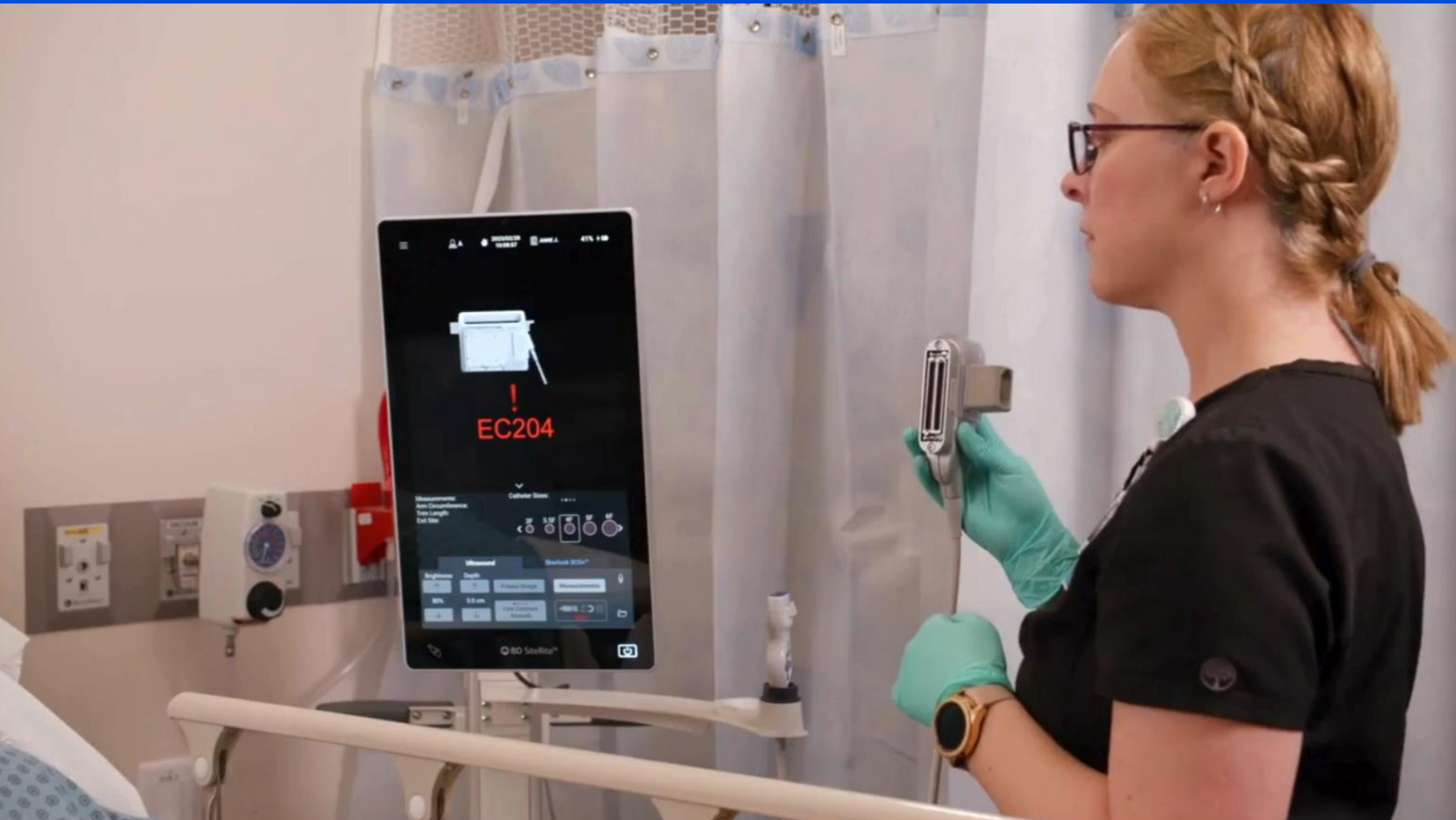


03 Enter doppler parameters to access doppler parameters

How to use your SiteRite™ 9 Ultrasound System

- Connecting your probe
- Adjusting display settings and image
- Getting optimal image quality
- Cue™ Needle Tracking System
- Color flow doppler
- Antiseptic timer
- Changing your battery
- Connecting to your WiFi
- Enabling DICOM and connectivity

Connecting your probe to SiteRite™ 9 Ultrasound System



To connect your probe:

- Align the probe connector and gently insert the probe into the console
- Ensure the toggle above the connector is position to the right in the unlock position before connection
- After the probe is connected move the toggle to the left to lock the probe in place

To remove your probe:

- Move the toggle above the probe connector to the right
- Gently pull on the connector to disconnect the probe

Tips for adjusting image settings

Brightness:

- Consider starting at 50% brightness and adjusting settings as needed

Depths:

- Half screen and full screen
 - Full screen zoom in might affect image quality, similar to zooming in on a picture
 - Best image comes from vessel being at halfway mark of depth

Filters:

- Show filters that are available and how to change them.



* Ensure protective packaging on probe is removed before use

SiteRite™ 9 ultrasound image

Getting the optimal image



Length = 25 mm



Ultrasound probe:

- SiteRite™ 9 acoustic array is 25mm long
 - Reminder: The image only shows a thin cross section of what you are scanning

Troubleshooting image quality:

- Ensure blue packaging sticker is removed from bottom of probe
- Perform a probe assessment to identify damage to the probe
- Adjust image settings
 - Consider starting at 50% brightness and adjusting settings as needed

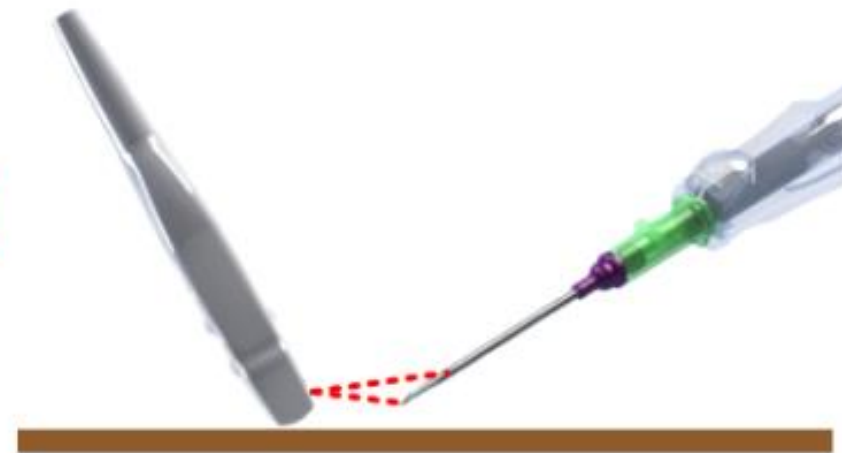
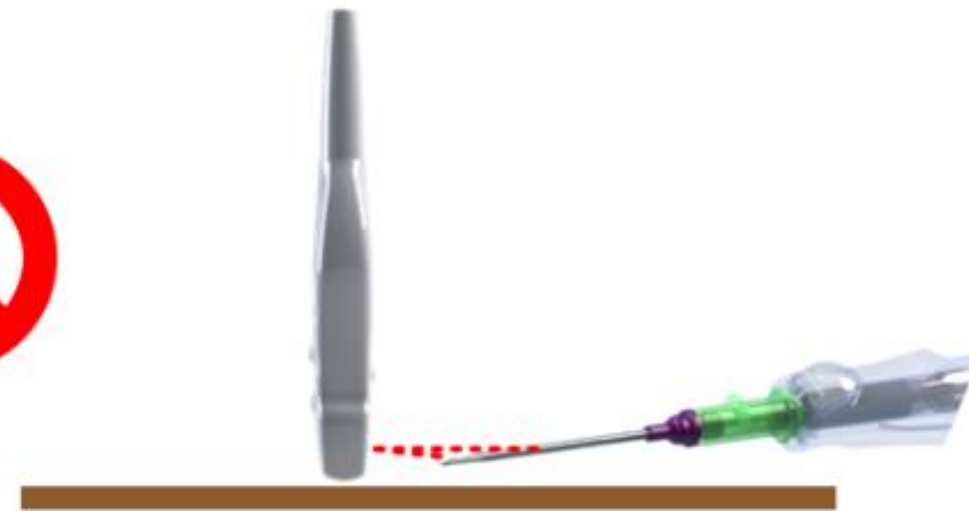
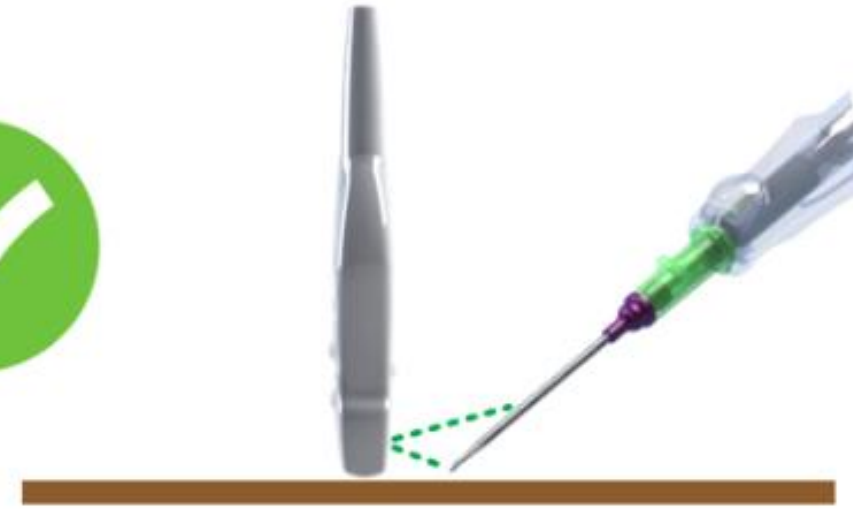
*It is recommended to practice on a vein block to get comfortable with your new probe before going bedside

Cue™ Needle Tracking

Troubleshooting Cue™



Magnetizing the needle



Appropriate angle

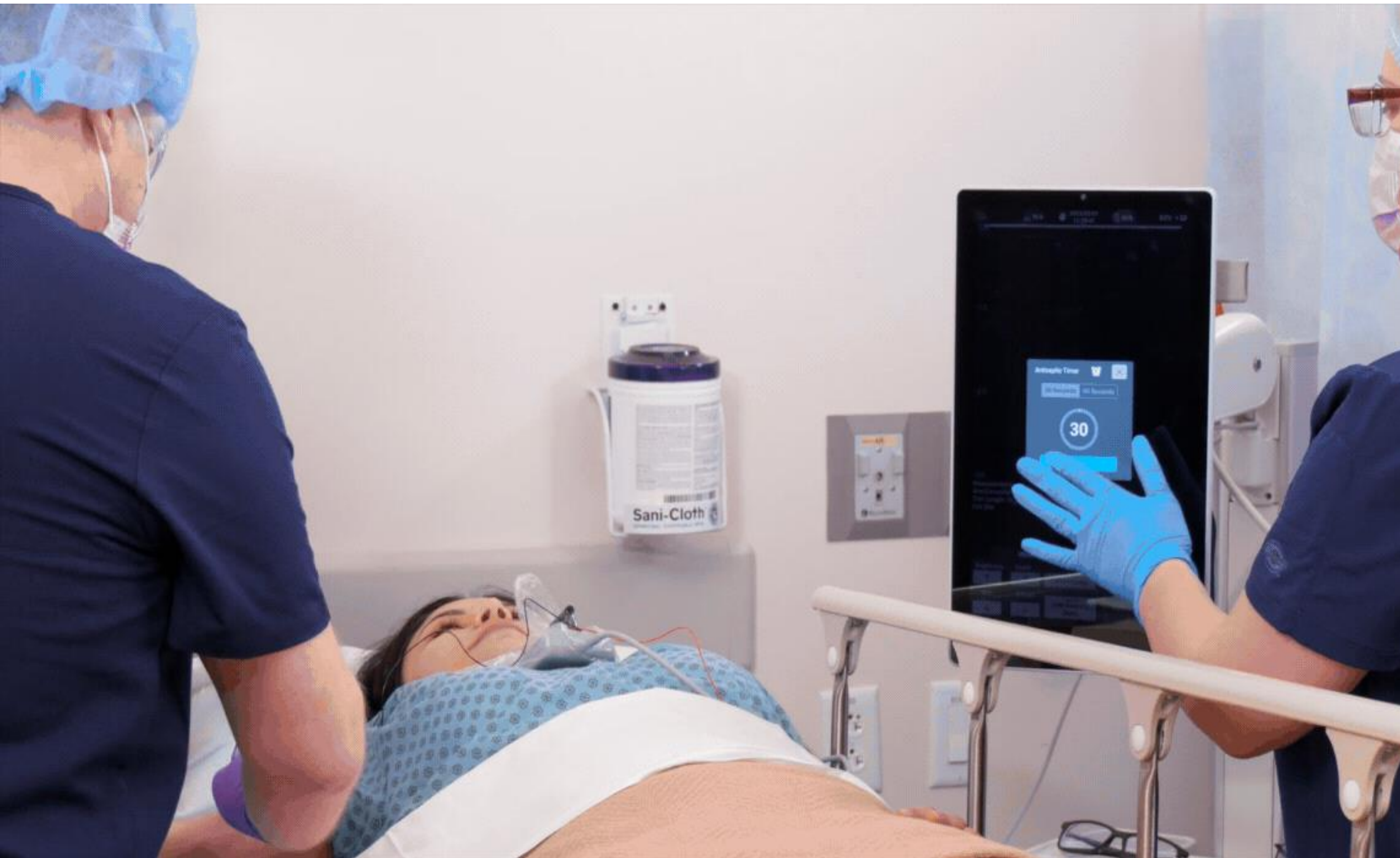
Tips for aligning the needle:

1. Align the target vein in the center of the ultrasound image
2. Look at the probe
3. Bring the needle and align the needle with the probe center mark
4. Now look at the screen and make any additional adjustments as needed by adjusting angle or distance

Ensuring reliable needle tracking:

1. When magnetizing needle ensure the needle cap is full on, and the cap touches the bottom of the magnetizer
2. Ensure the appropriate angle – the probe sensors need to be able to see both magnetic poles on needles
 - Aim for an insertion angle of $\sim 30 - 45^\circ$
 - Very shallow insertion angles or tilting of the probe does not allow the sensors to see both magnetic poles

SiteRite™ 9 features an antiseptic timer



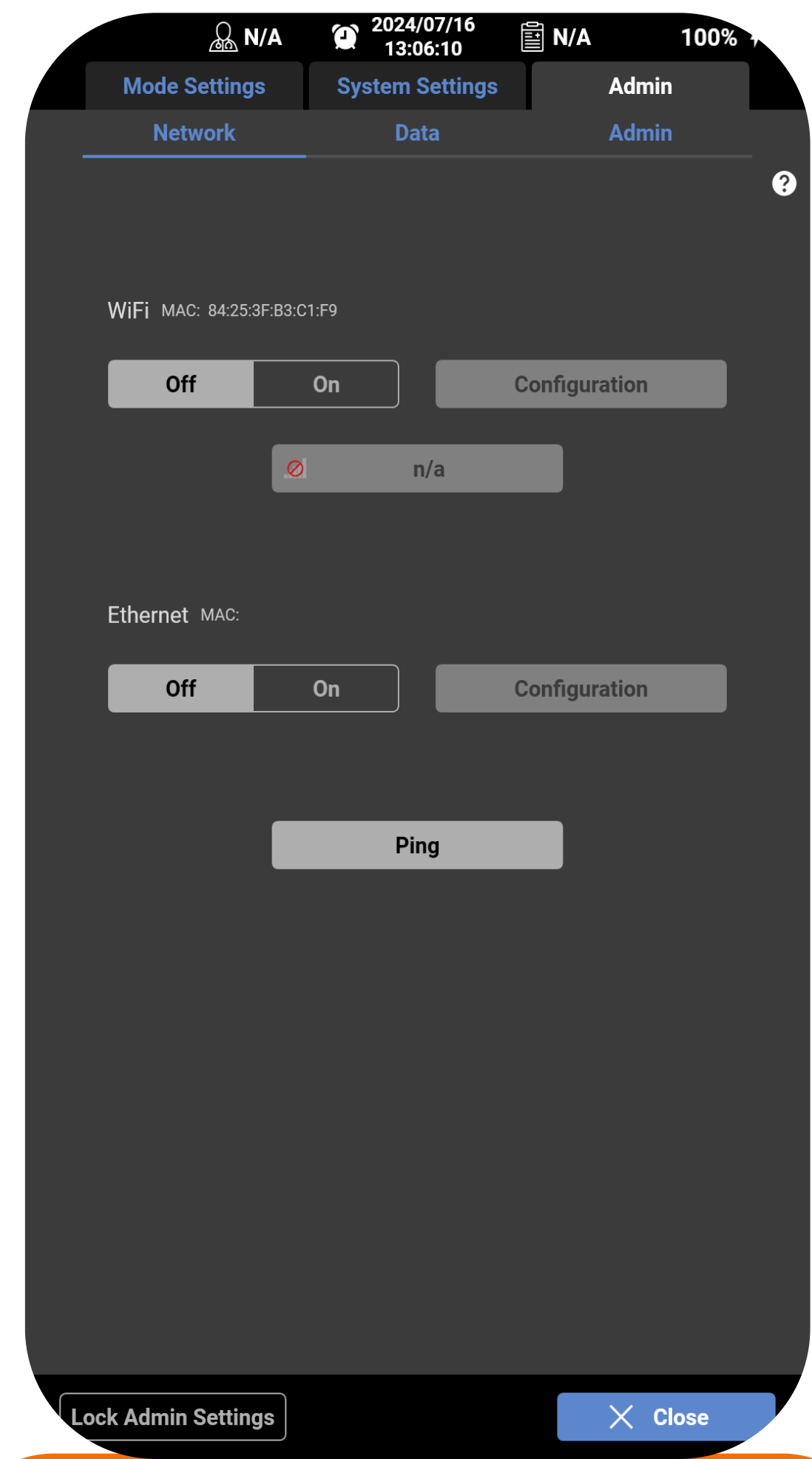
The antiseptic timer has an adjustable duration, when started a tone will emit after the time duration has elapsed

- 30 and 60 second options

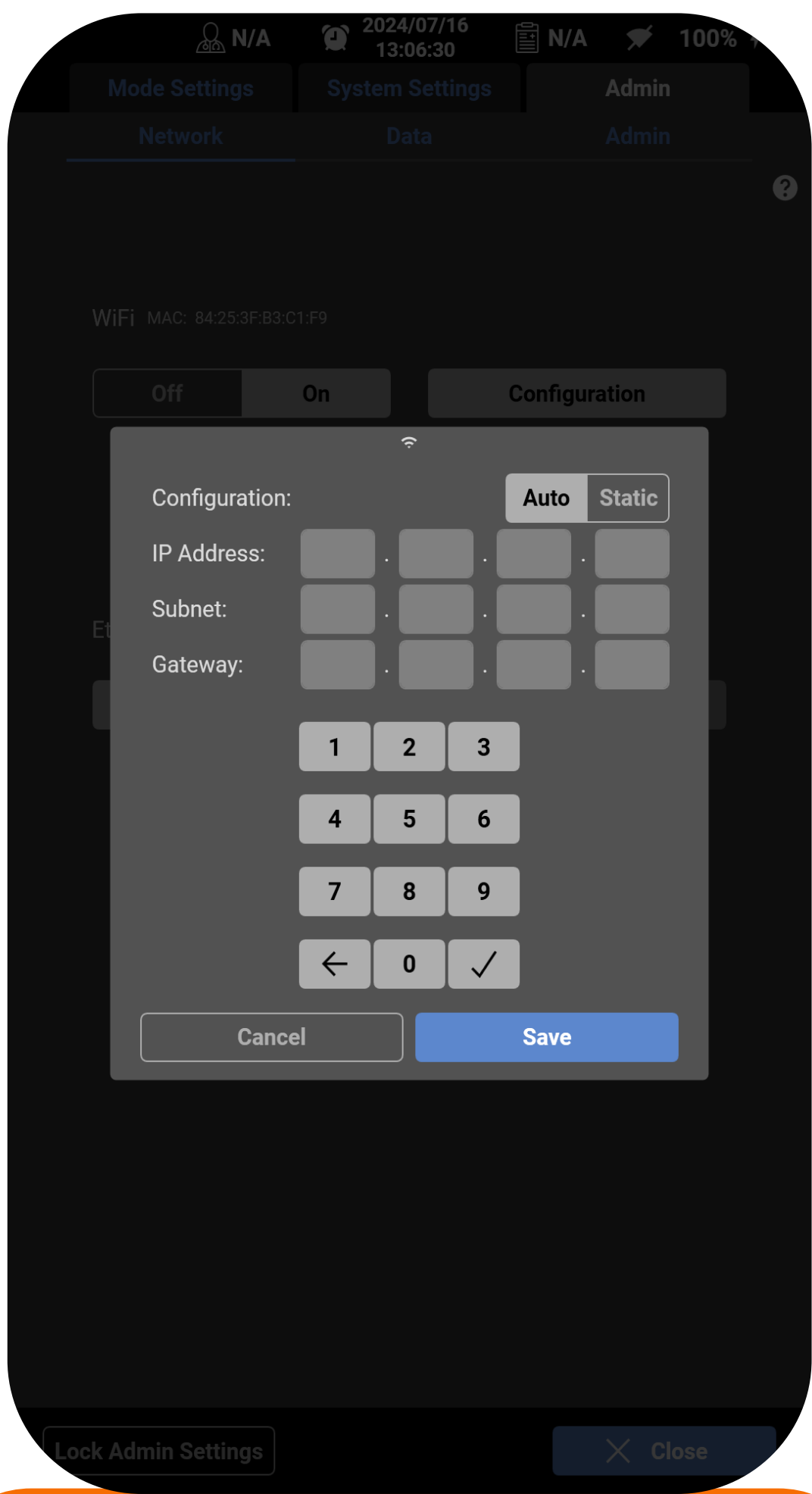
The user may also navigate away from this screen without cancelling the time

Connecting SiteRite™ 9 to WiFi

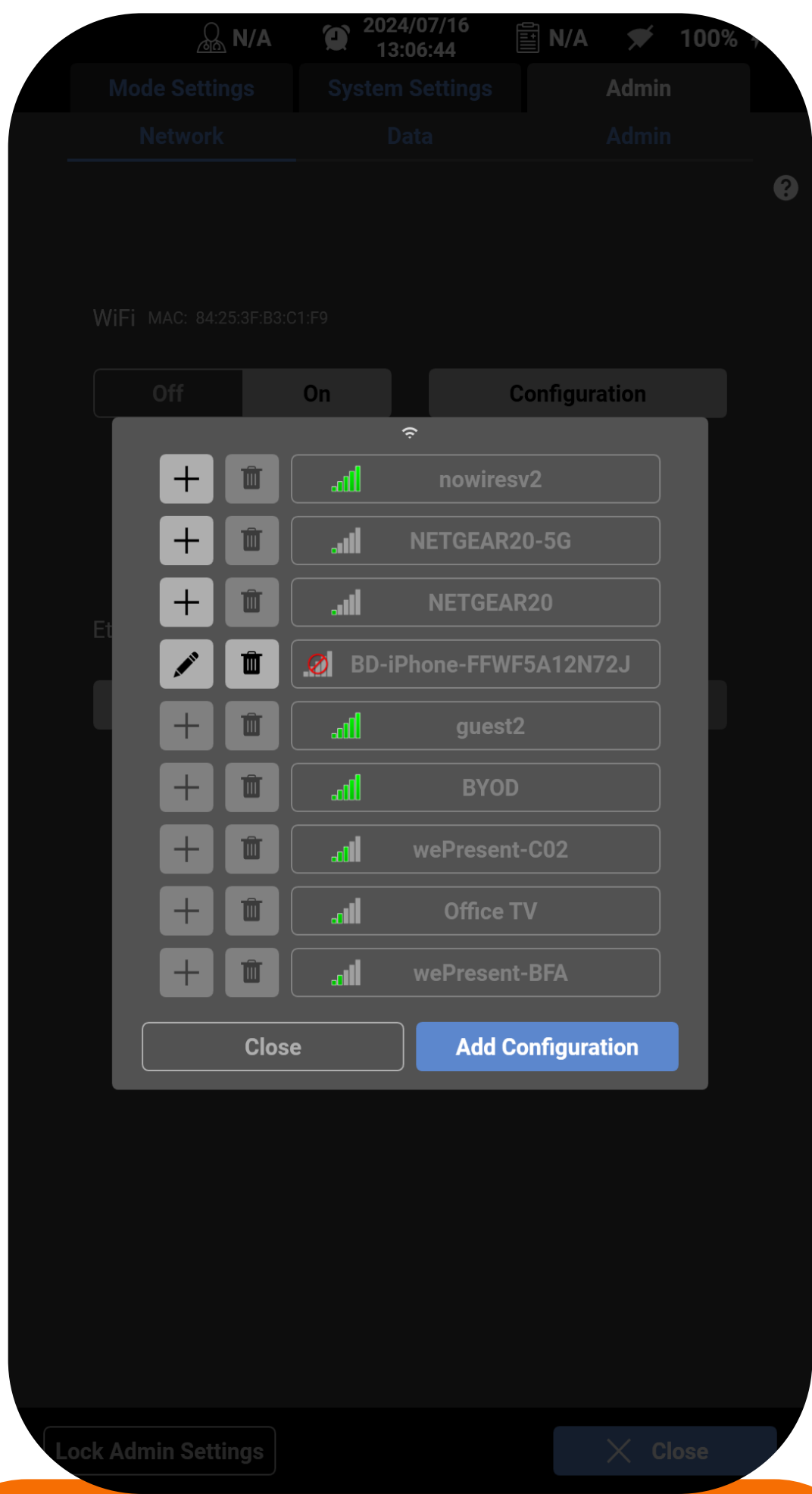
It is recommended to work with your IT department to connect your device to WiFi



01 Access network settings in Admin tab- select network to configure



02 Modify network configurations and add in appropriate information



03 Select WiFi network or add a new network by pressing add configuration

WiFi enables:

Remote software upgrades

- Software can be automatically upgrade via WiFi
- Upgrading software via USB makes the software upgrade process longer

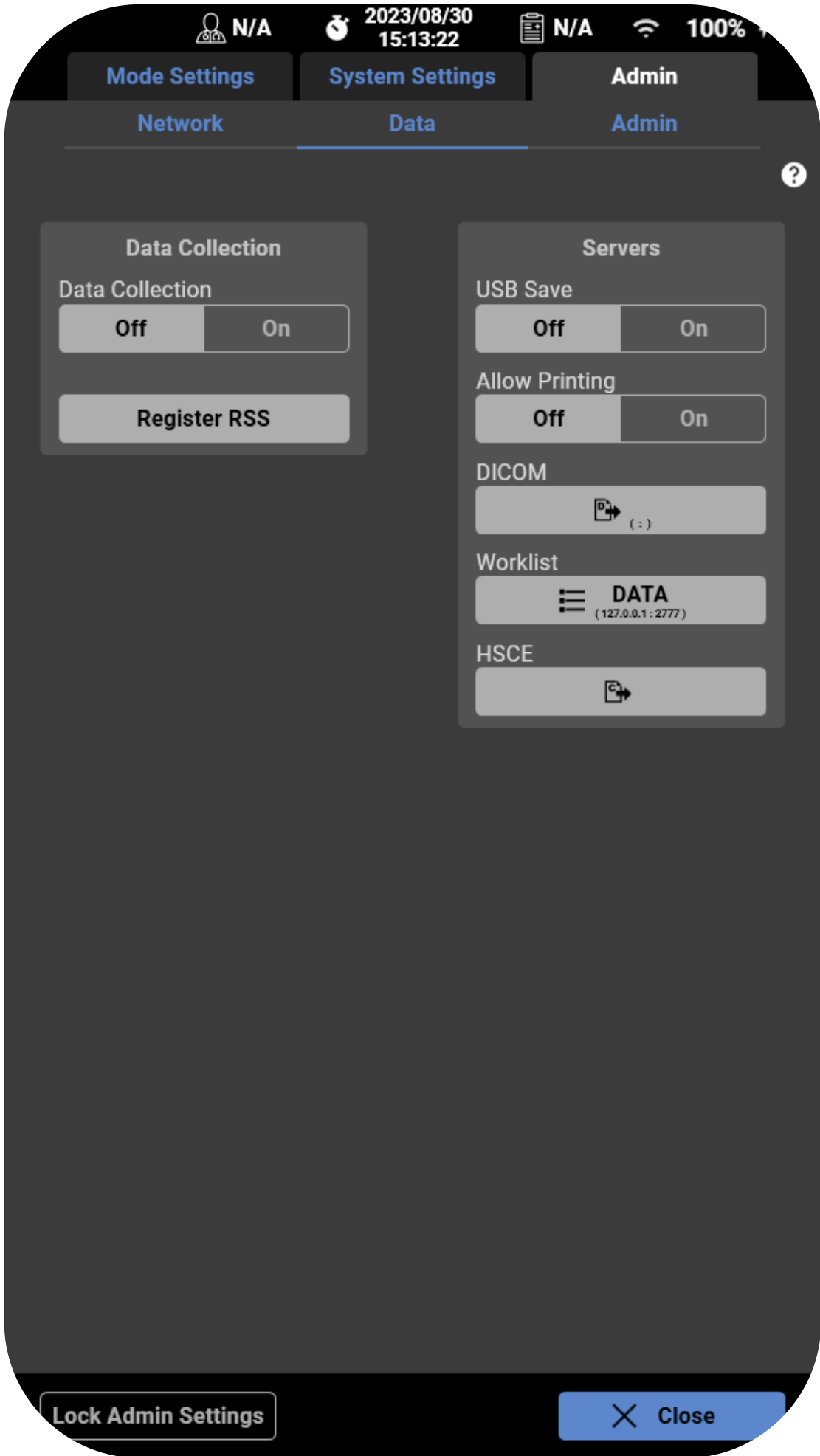
Connection to EMR Systems

- Worklist
- HSCE

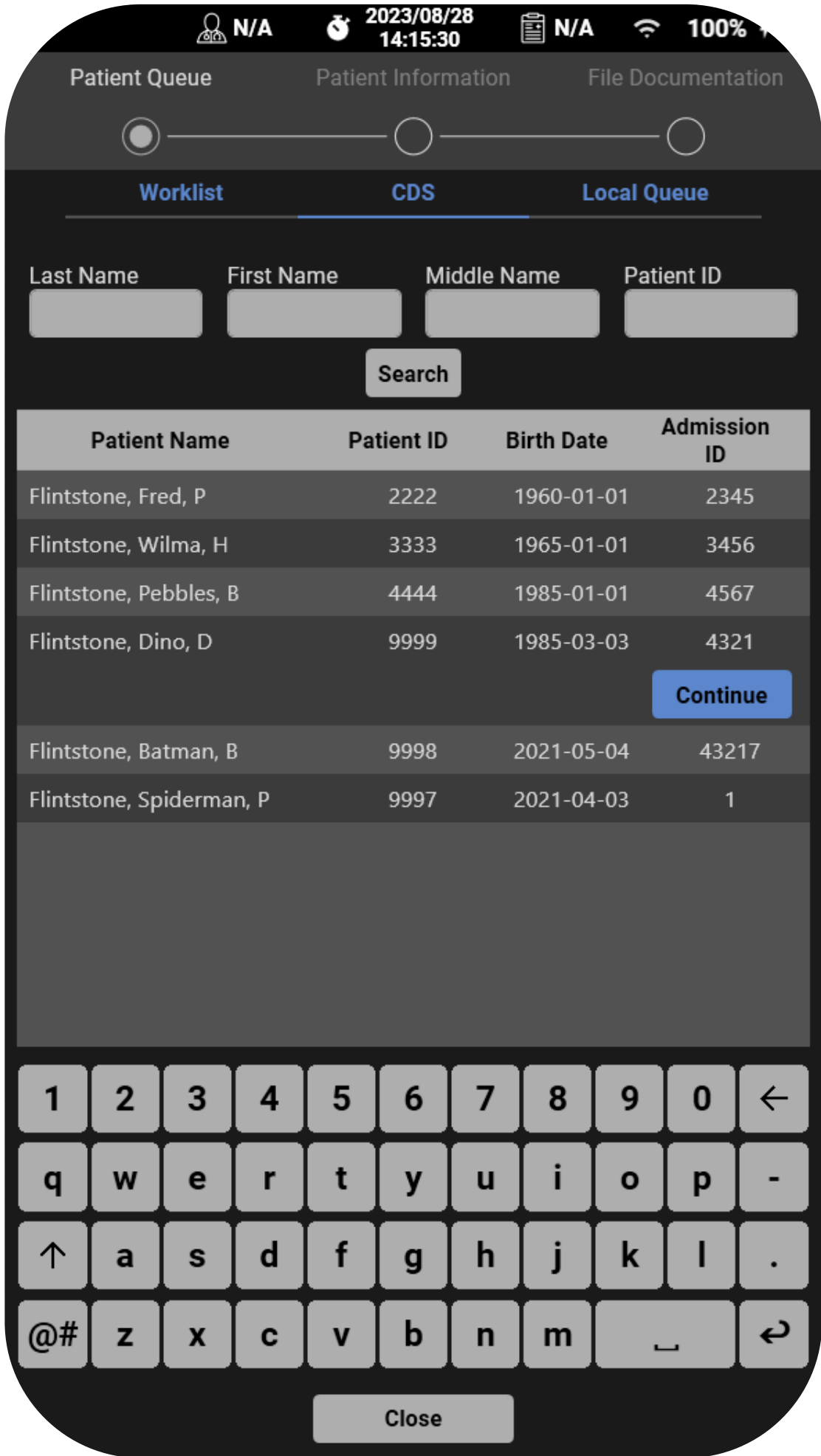
Data Security

Enabling SiteRite™ 9 connectivity

How to enable connectivity to PACS via DICOM or EMR



01 Enable Worklist or HSCE- if using HSCE register RSS



02 Select patient information if Worklist or HSCE is enabled



03 Information auto-populates for patient with ability to add notes. Save patient information and send to PACS or EMR

Upgrading from Site~Rite™ 8 to SiteRite™

• 9 Differences in your ultrasound

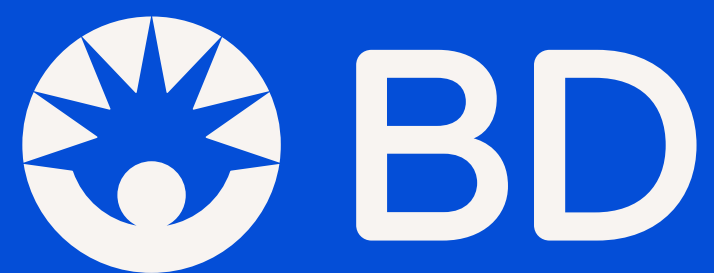
SiteRite™ 9 helps deliver an impressive suite of advances—all focused on meeting the demands of vascular access.

Feature	SiteRite™ 8	SiteRite™ 9
Screen Size	10.4"	15.6"
Cue Needle Tracking	Y (limited)	Y
Vessel Assessment Tools	Y	Updated interface
Auto Vessel Detection	n/a	Y
Sherlock 3CG+ integration	Y	Updated interface
Doppler	n/a	Color Flow
Memory	4 GB	8 GB
Speech Recognition	n/a	Y
Clinician RFID Badge Reader	n/a	Y
Cyber security	Y	Updated with advanced encryption and security
EMR integration/HSCE	n/a	Y
Worklist	n/a	Y
RSS	disabled	Y
Power/Battery Life	Up to 3 hrs	Up to 90 min



SiteRite™ 9 & SiteRite™ 8

Thank you



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