

LeSONO



LeSONO Wireless Ultrasound – Quick Guide



Version: 251103
Applicable to 1.25.2.4 above revision

General Functions:

- 【Boot up and connection】 - Connect the probe with QR code
- 【Scan】 - B, C, M, PW and PD modes
- 【Annotate, measure and save】 - Annotation, measuring length and area, saving images and videos
- 【Dual screen】 - Export and import the images to compare it
- 【DICOM support】 - Download worklist and upload DICOM file
- 【Run App on MAC M-series device】

【Boot up and connection】



Power & Freeze Button

Turn on: Long press the power button until the light turns blue.

Turn off: Long press the power button until the light turns off.

Power Button Indicator Light



Lights Off

The device is powered off.



Flashing Blue Light

System ready.

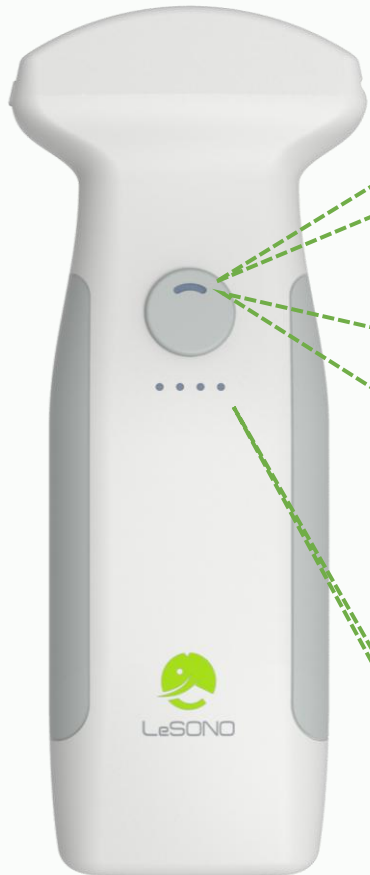


Steady Blue Light

System connected.

Battery Indicator Light

4 lights indicate full charge, 1 light indicates low battery



Power & Freeze Button

Turn on: Long press the power button until the light turns purple.

Turn off: Long press the power button until the light turns off.

Power Button Indicator Light



Lights Off

The device is powered off.



Purple Light

System ready.



White Light

System connected.

Battery Indicator Light

4 lights indicate full charge, 1 light indicates low battery

Boot up and connection - Turn on/off the probe (700 / 300 series) **LEL TEK**

Step 1

Turn on: Long press the power button for 3 seconds

Turn off: Long press the power button for 3 seconds

Step 2



Blue light
<Charging>



Lights out
<Power OFF>



Purple light
<Power ON>
System ready.



White light
<Power ON>
System connected.



Boot up and connection - Connection

Step 1

Connected:

Connection

Review

Exit

HITRON-55F0-5G

Invalid device. Scan QR code for connection

Turn on the probe (Purple light), tapping "Scanning QR code" icon on the upper right corner

Step 2

Leitek Inc.

СУМЕТ

Scan QR code on the probe

Step 3

Connected:

Connection

Review

Exit

HITRON-55F0-5G

Invalid device. Scan QR code for connection

"LELTEK" Wants to Join Wi-Fi Network
"LU700-43-201920173"?

Cancel

Join

Confirm the SSID and tap "Join"

Step 5

000000019

Freeze

B

CF

M

PW

PD

THI (ON)

Freq

Gain

Enhancement

FPS

Dynamic Range

Adv. Settings

18.9

BP

End Exam

Transducer: Convex

Gain: 40

DR: 30

Depth: 18.9 cm

Pre-set: abdomen

Freq: H 4.2 MHz

MI: 0.79

Ti: 0.7

Enter the scan page

Step 4

Connected:

Connection

Review

Exit

LU700-43-201920173

Device Connected

Wait for finishing the connection

Boot up and connection - Connection with the probe list



Step 1

Connected: Connection

Review

Exit

Invalid device. Scan QR code for connection

Tap the “probe list” icon on the right side

Step 2

Connected: Connection Probe List

Review

Exit

Invalid for c

Tap the “+” icon on the upper right corner

Step 3

Scan QR code on the probe

Step 5

000000019

Freeze

B CF M

PW PD

THI (ON)

Freq

Gain

Enhancement

FPS

Dynamic Range

Adv. Settings

18.9

Wait for finishing the connection and enter the scan page

Step 4

Connected: Connection Probe List

Review

Exit

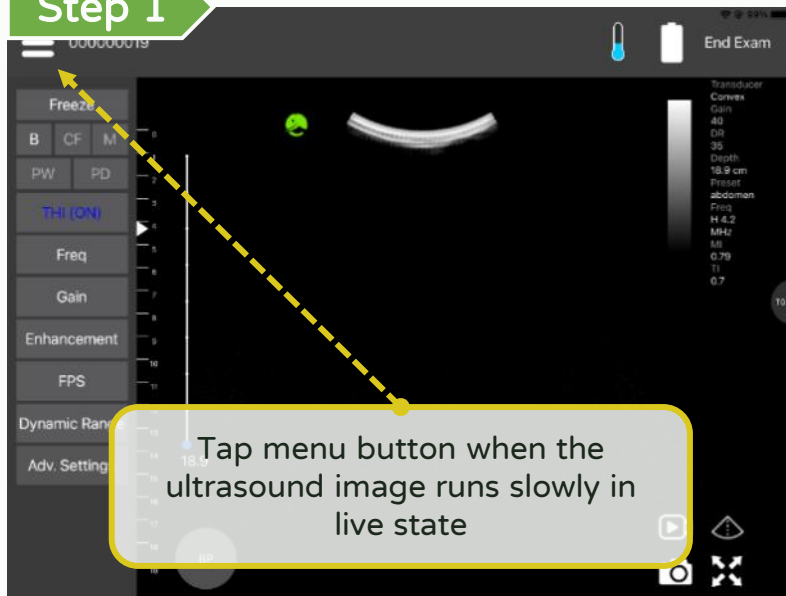
Invalid for c

LU700-43-20611001 Convex

The probe will be saved in the list, and tap one you want to connect with.

Boot up and connection - Improve the connection quality **LEL TEK**

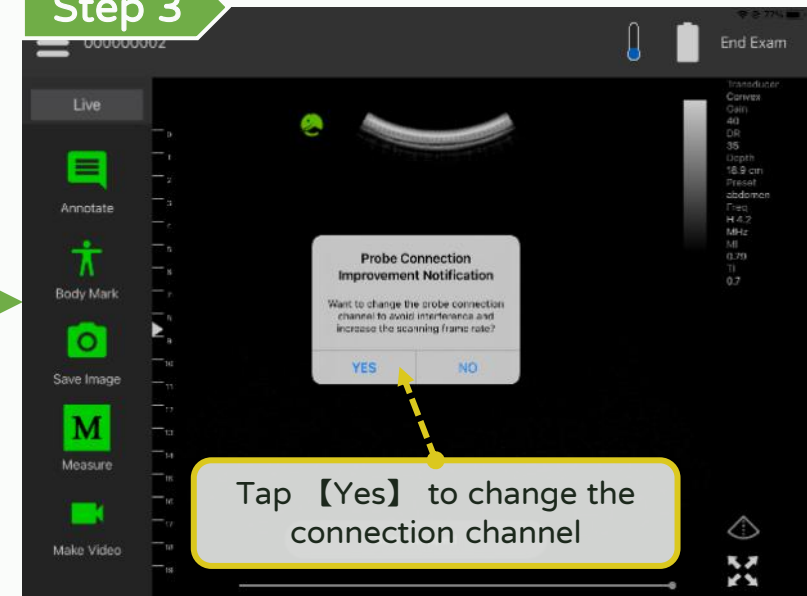
Step 1



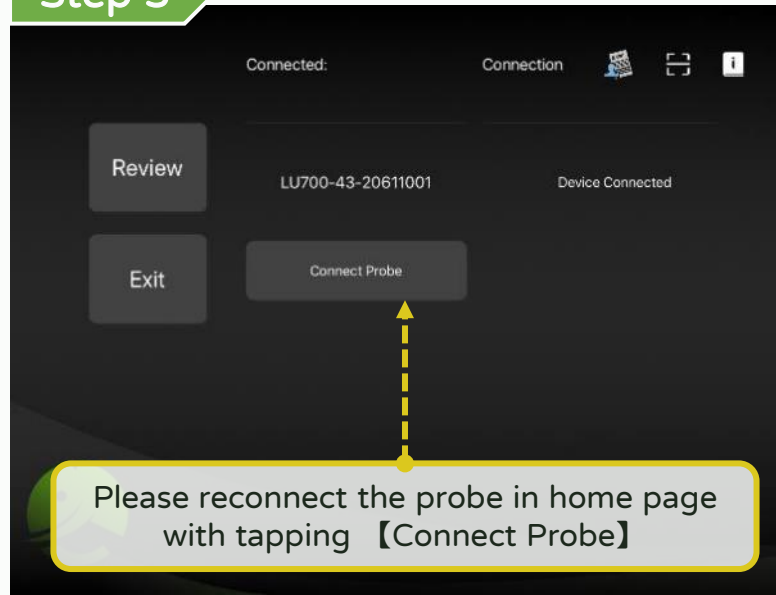
Step 2



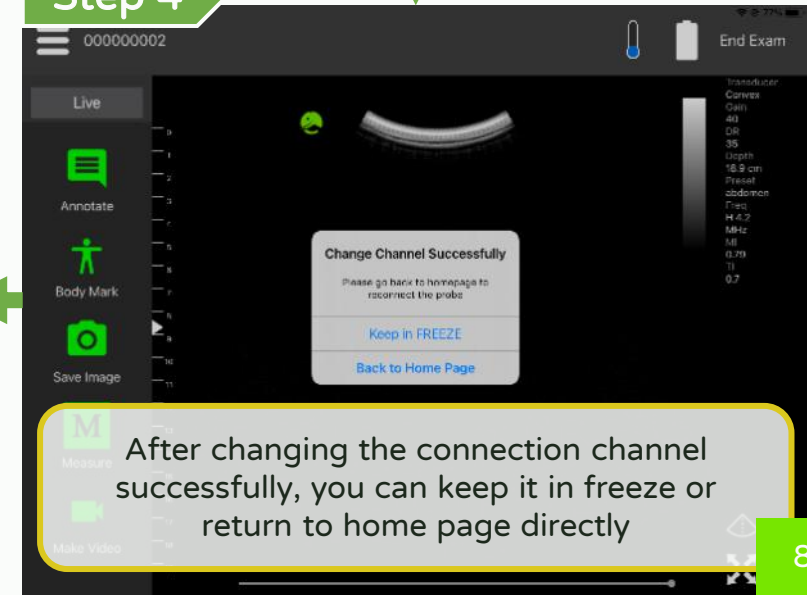
Step 3



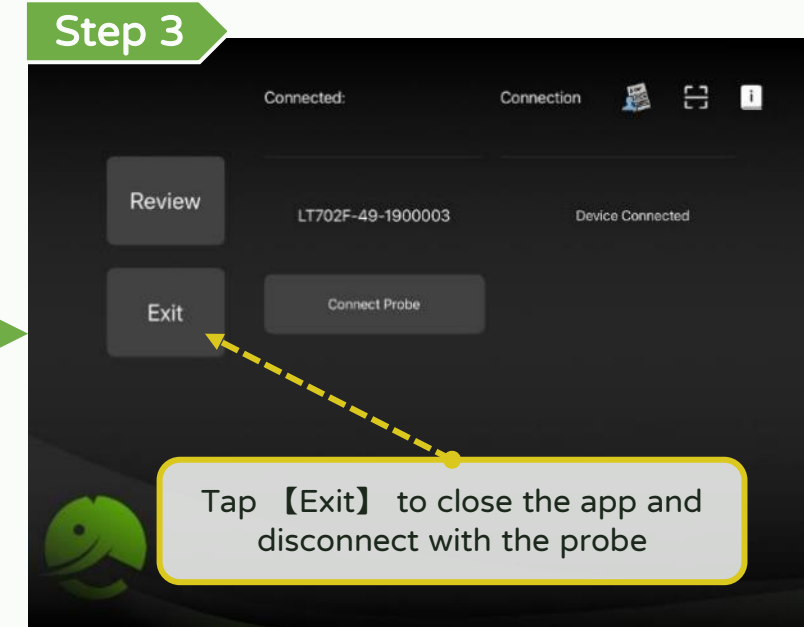
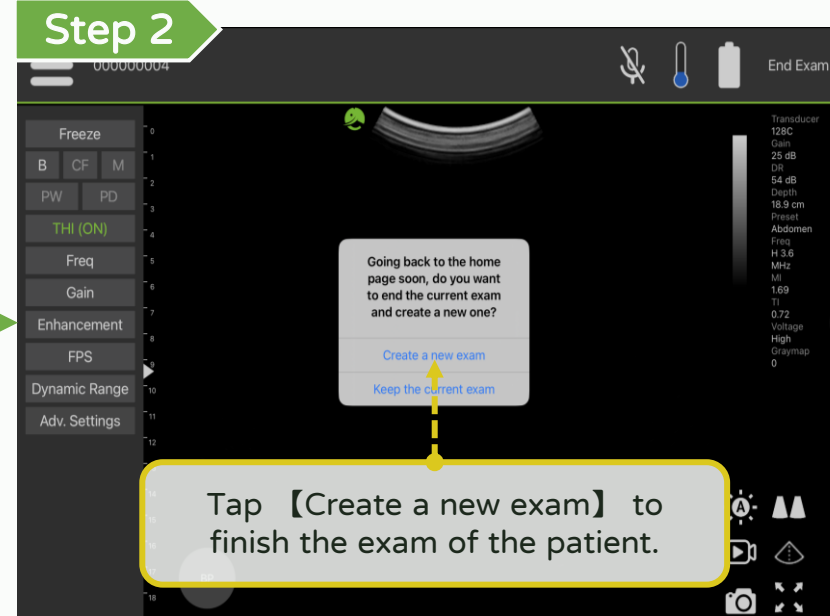
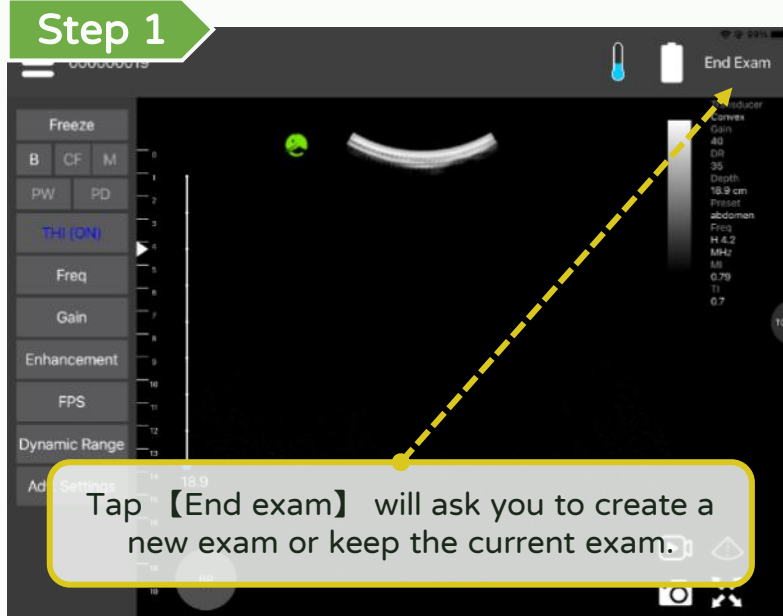
Step 5



Step 4



If the ultrasound image still runs slowly, please repeat the steps above

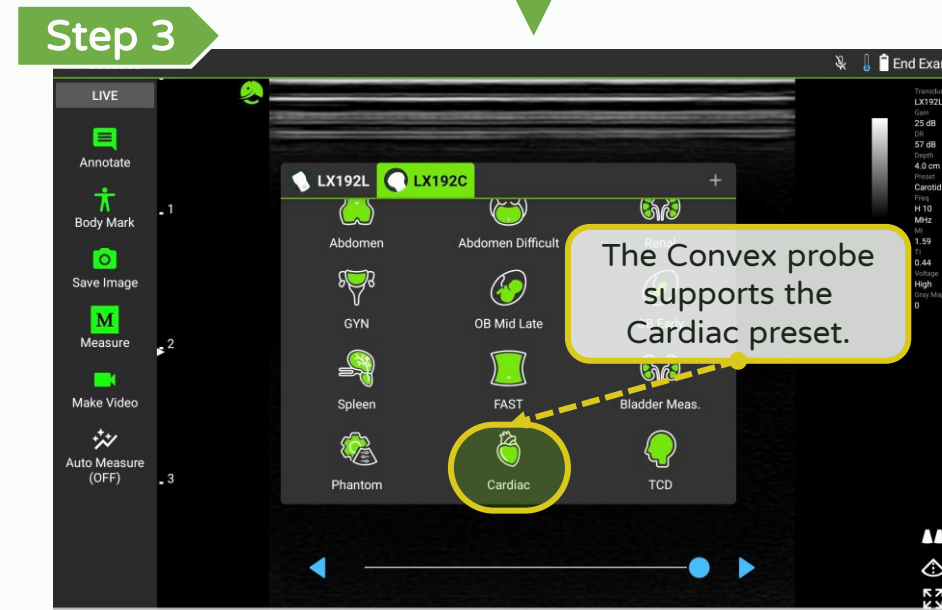
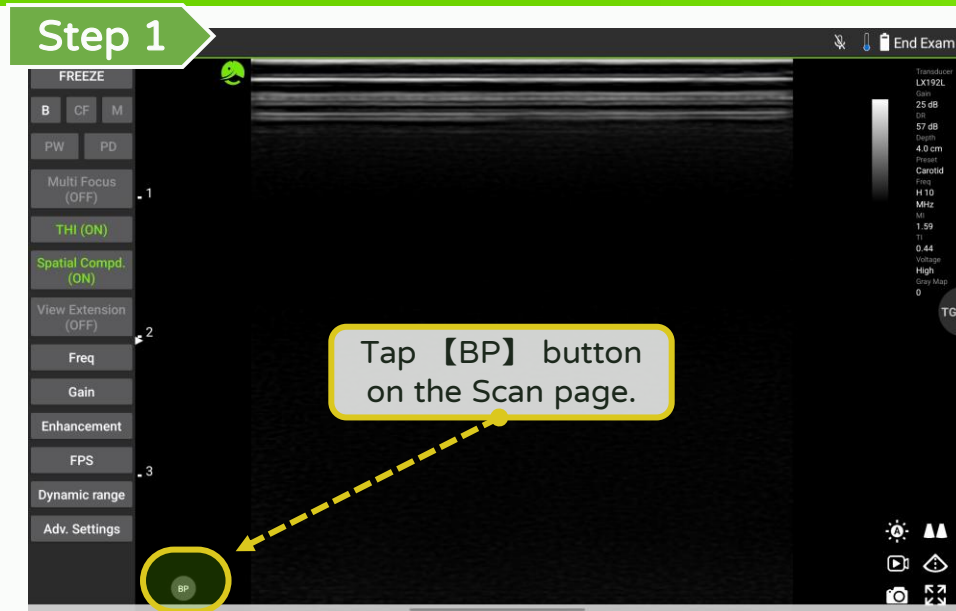


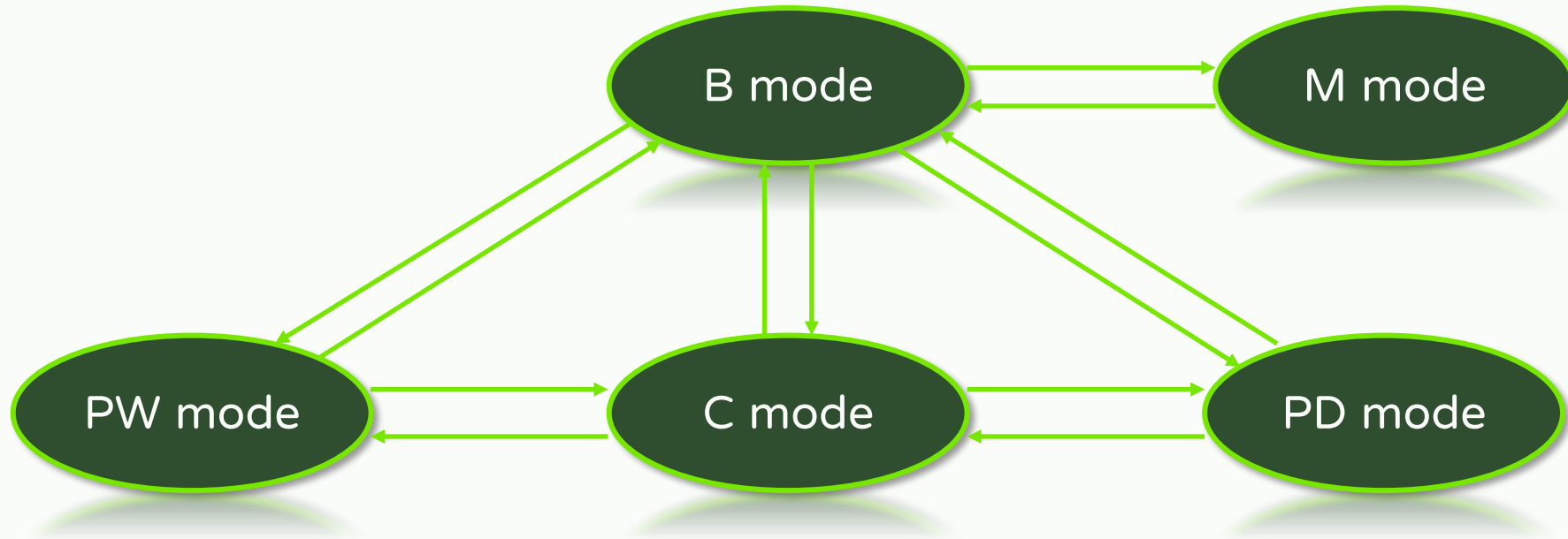
【Scan】

The diagram illustrates the LELTEK ultrasound interface with various controls and their functions:

- MRN**: Medical Record Number (000000019)
- Review, export**: Menu icon for reviewing and exporting data.
- Freeze / Live**: Freeze button to pause the scan.
- Select mode**: Buttons for B, CF, M, PW, and PD modes.
- Adjust parameter**: A vertical list of parameters including THI (ON), Freq, Gain, Enhancement, FPS, Dynamic Range, and Adv. Settings.
- Adjust depth**: A vertical depth scale with a slider set to 18.9.
- Select preset**: A circular button labeled BP (Belly Preset).
- Probe info**: A panel showing transducer details: Convex, Gain 40, DR 35, Depth 18.9 cm, Preset abdomen, Freq H 4.2 MHz, MI 0.79, TI 0.7.
- End exam**: A button to end the examination.
- Voice control**: A microphone icon for voice-activated controls.
- Scan info**: A panel displaying real-time scan parameters.
- Adjust TGC**: A TGC (Time Gain Control) slider for adjusting gain over time.
- Dual screen, IQ scan, save image and video, center line, full screen**: A panel of icons for dual-screen mode, IQ scan, saving images and videos, center line, and full-screen mode.

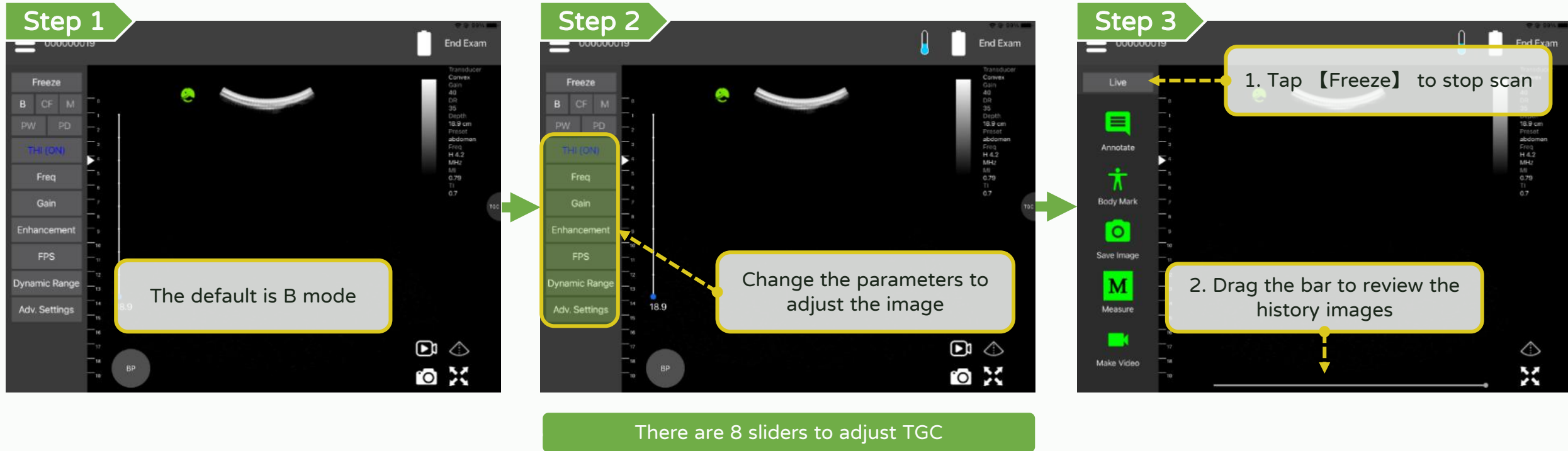
Scan – Switch Probe (LX 系列)



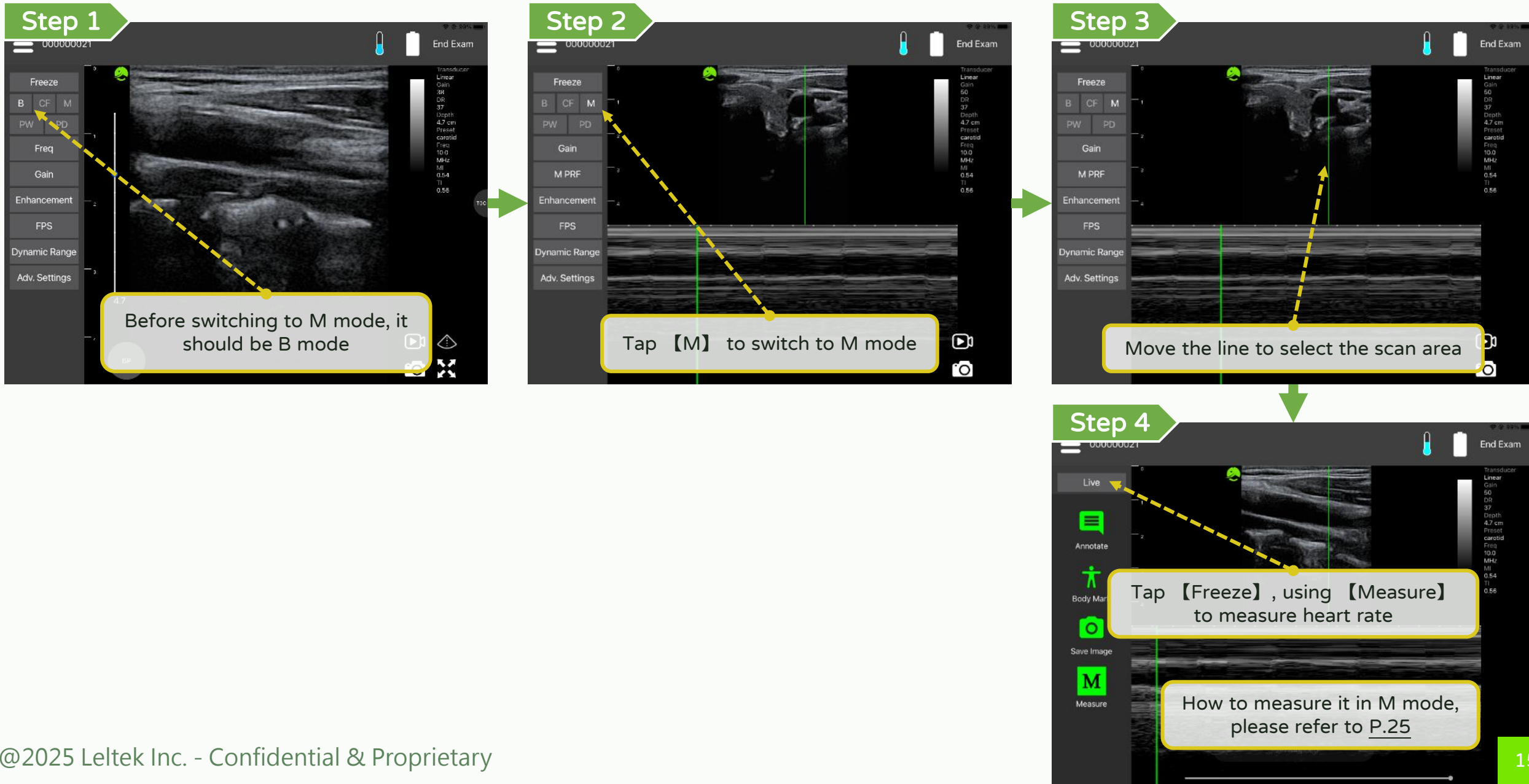


“The orientation of arrow”: It can be switched directly to the mode

Scan - B (Brightness) mode

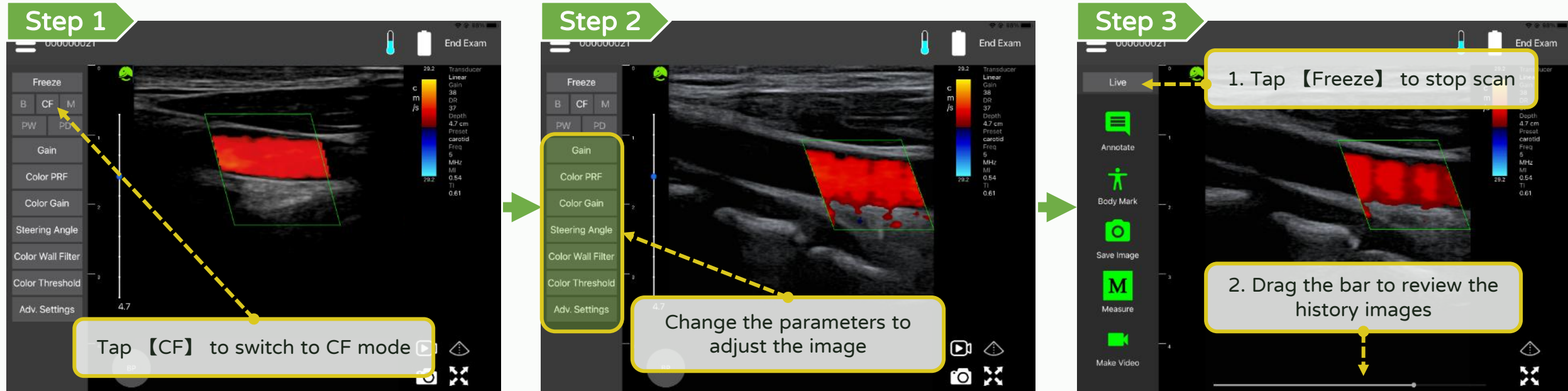


Scan - M (Motion) mode



Scan - CF (Color Flow) mode

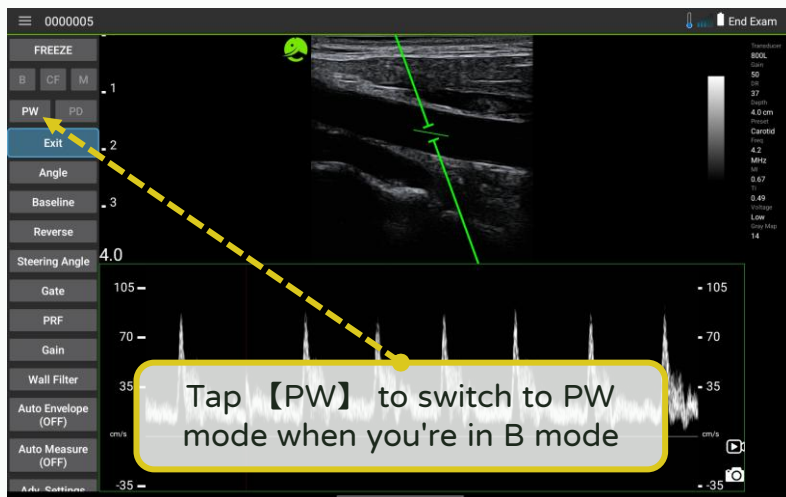
*Optional function **LEL TEK**



Scan - PW (Pulse Wave) mode without color

*Optional function **LEL TEK**

Step 1



Step 2

The live image will be highlighted with a green frame

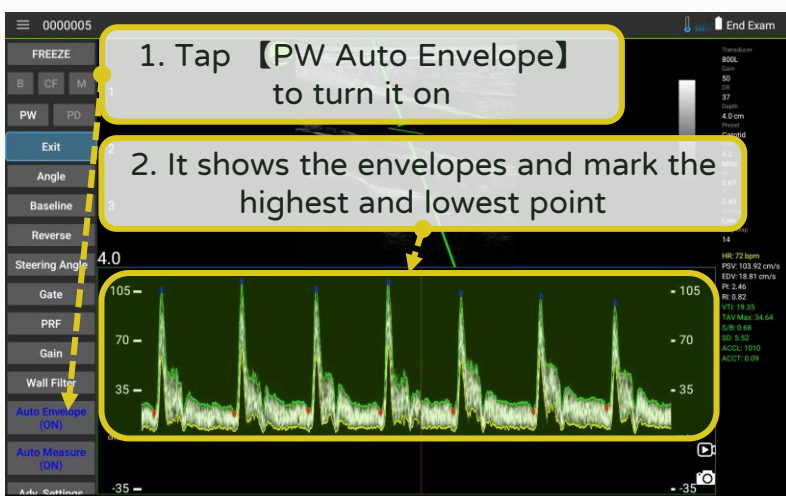


Step 3

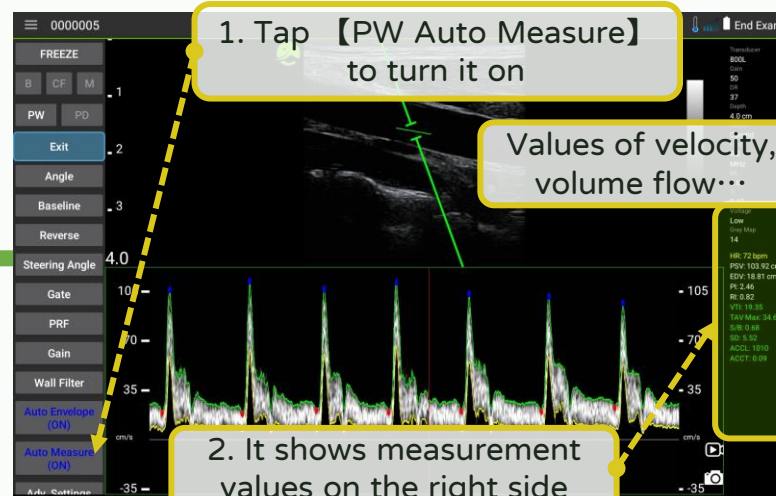
The live image will be highlighted with a green frame



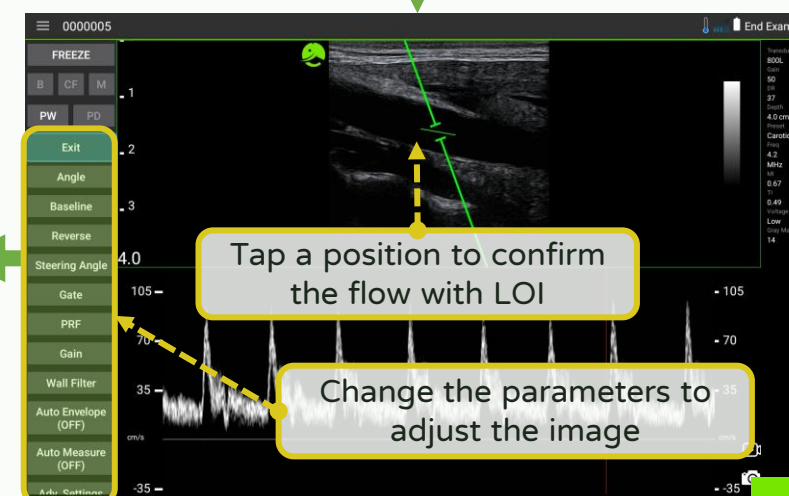
Step 6



Step 5



Step 4

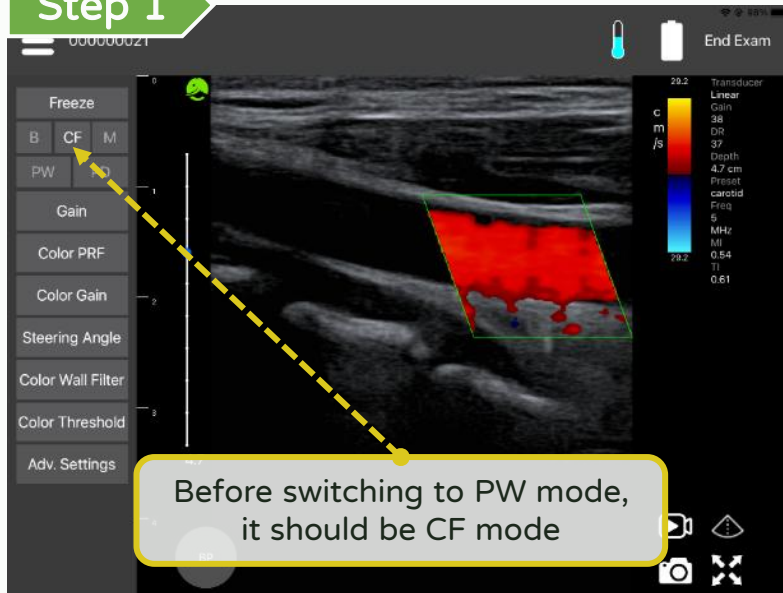


Scan - PW (Pulse Wave) mode with color

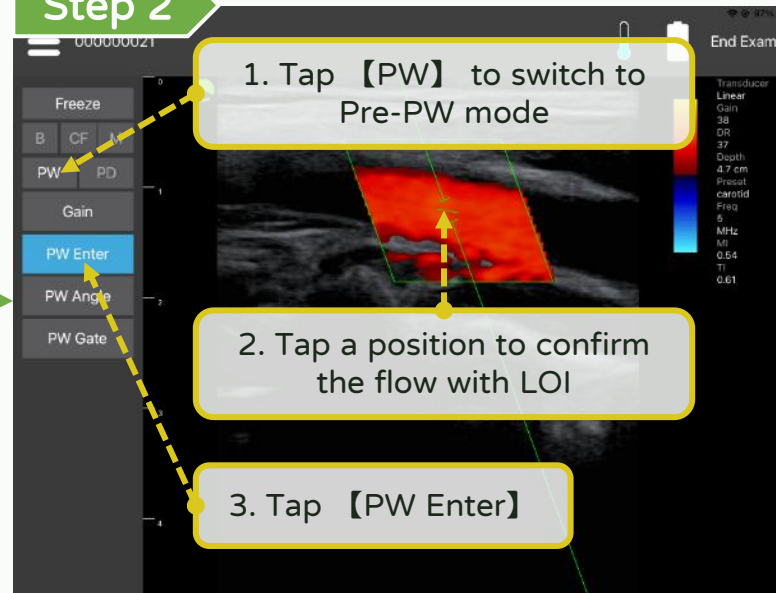
*Optional function

LEL TEK

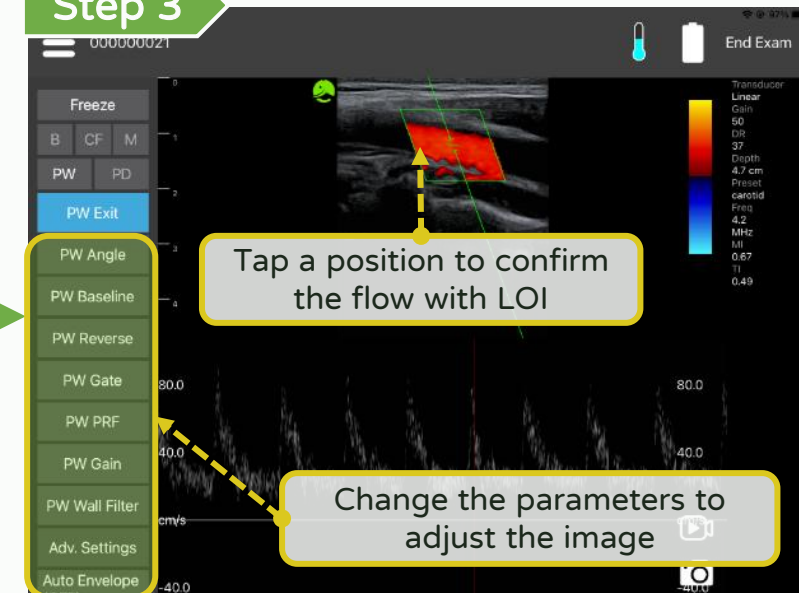
Step 1



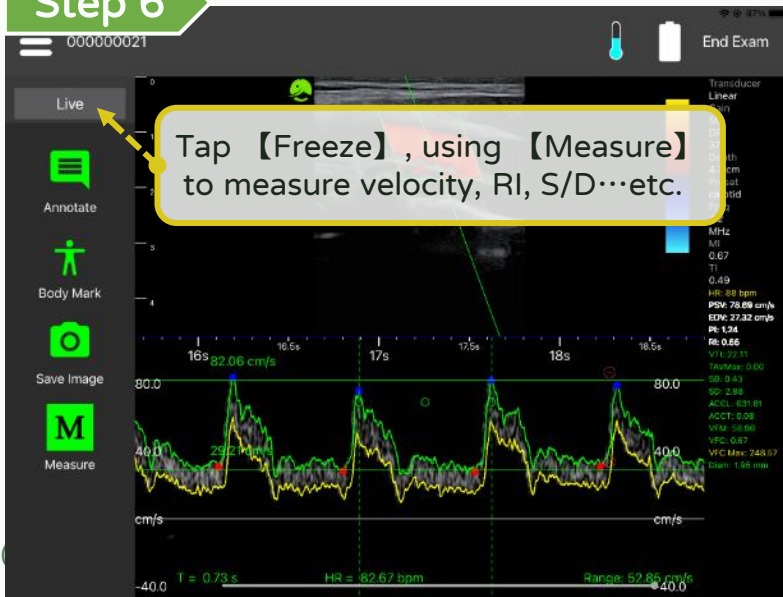
Step 2



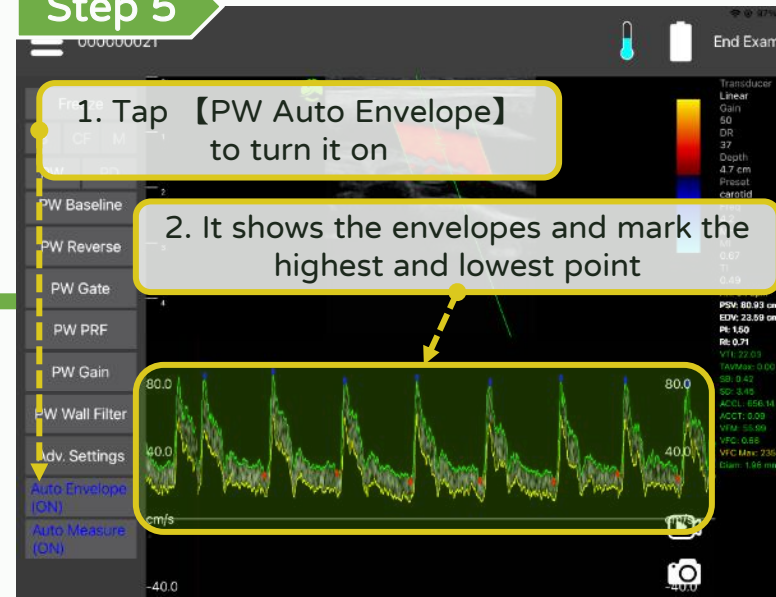
Step 3



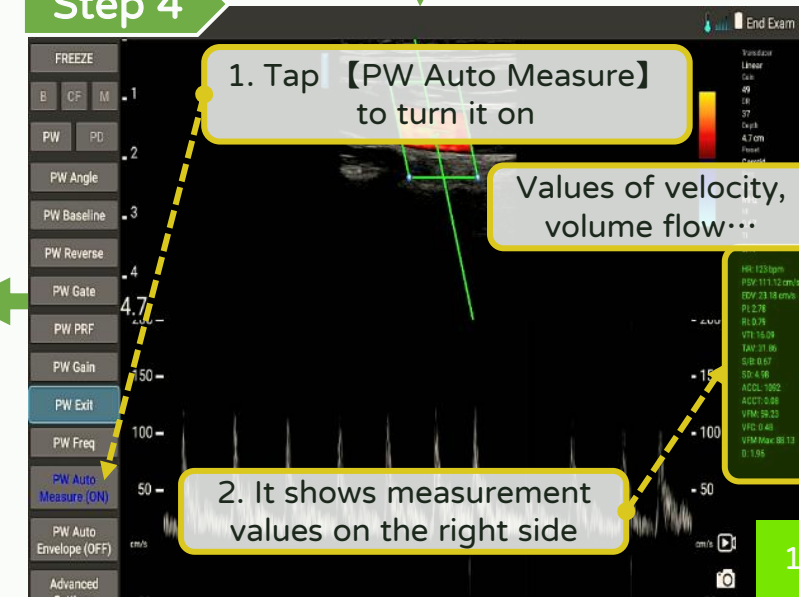
Step 6



Step 5

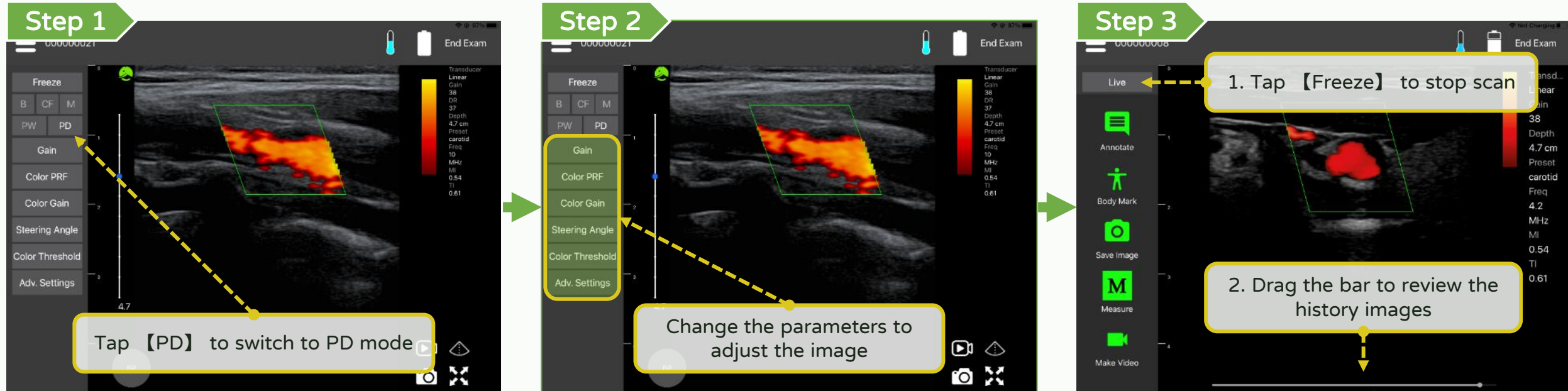


Step 4

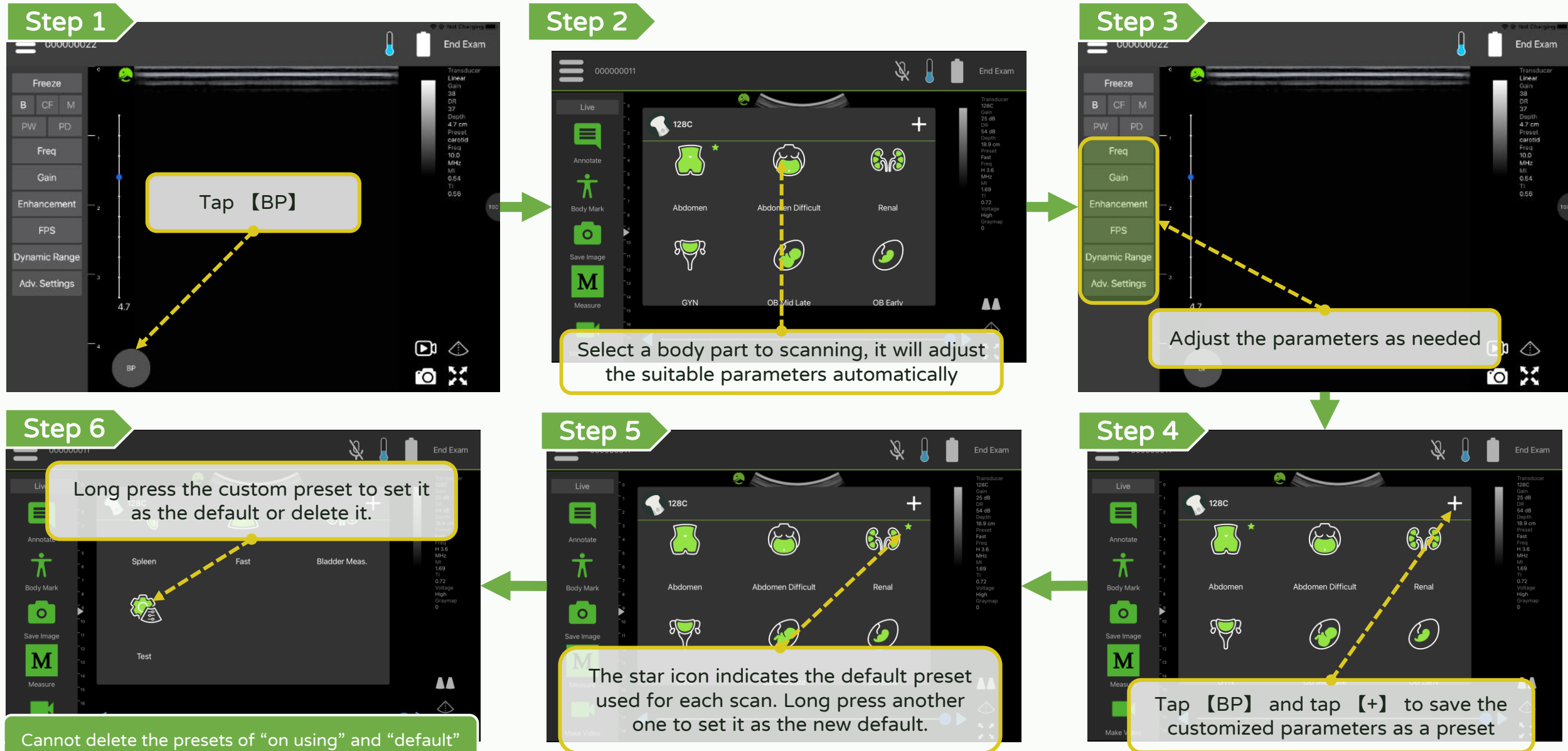


Scan - PD (Power Doppler) mode

*Optional function **LEL TEK**

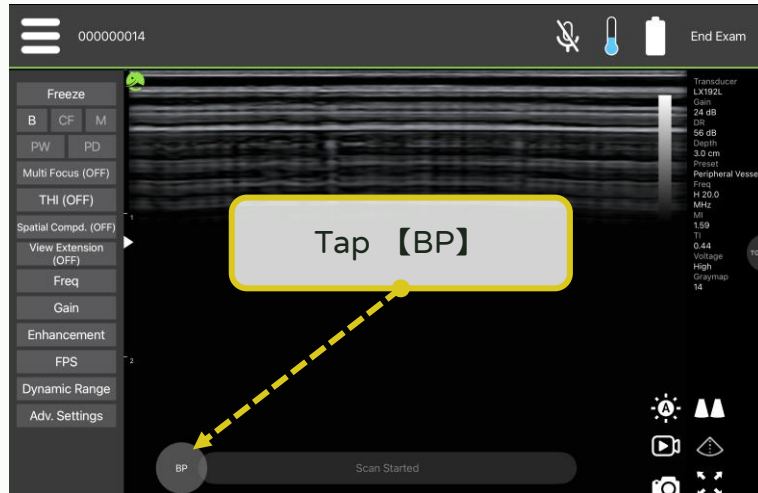


Scan - Select and customize a preset (700/128 series)

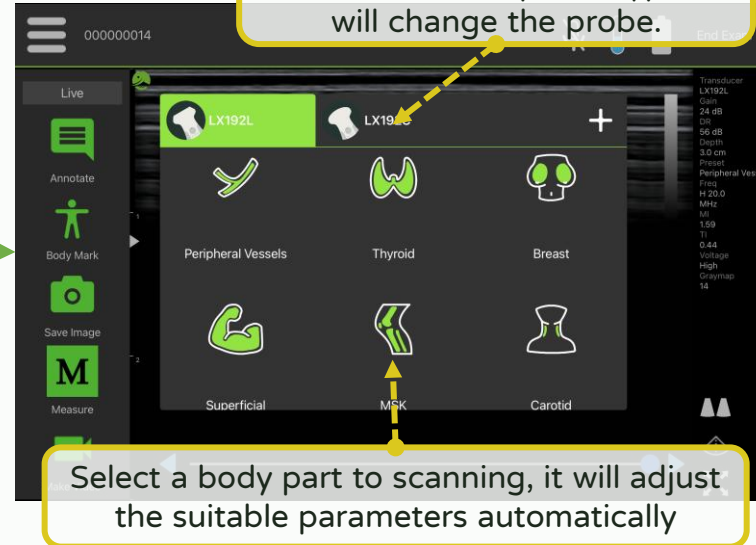


Scan - Select and customize a preset (LX series)

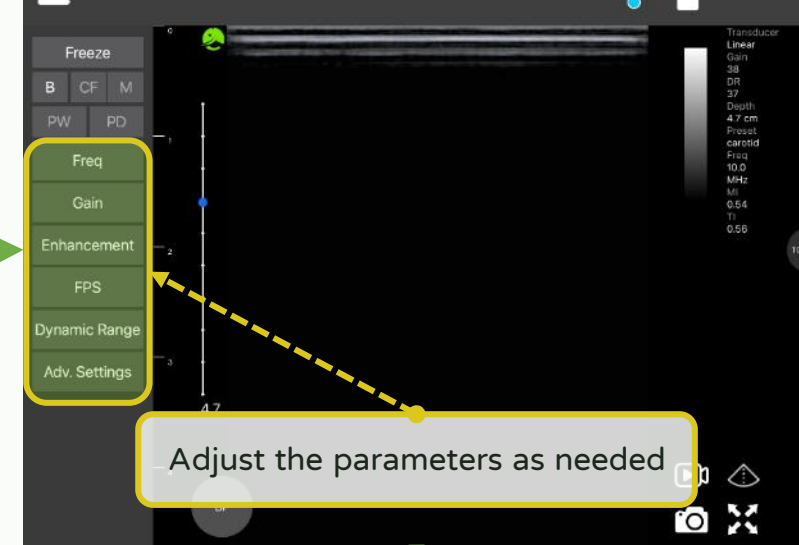
Step 1



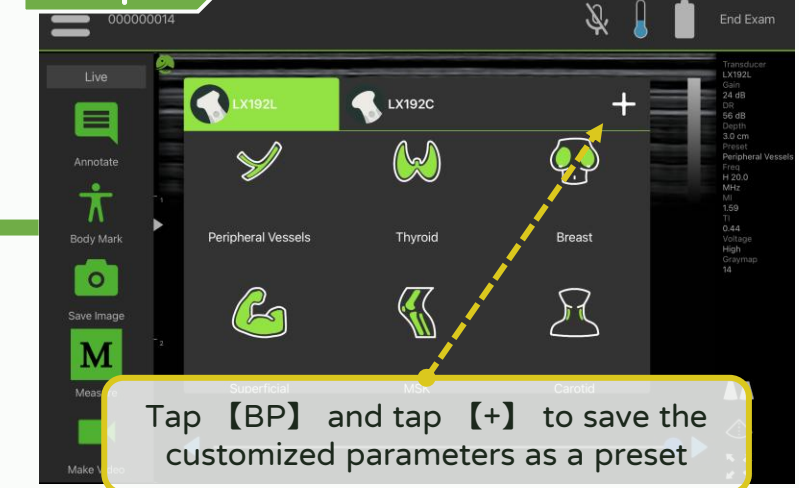
Step 2



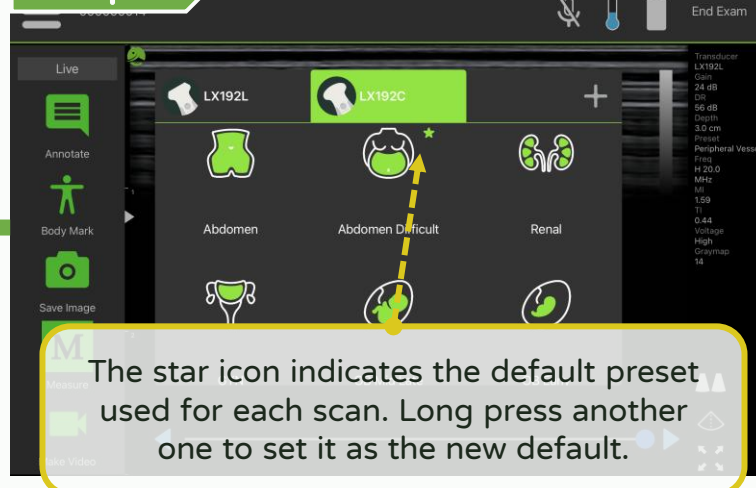
Step 3



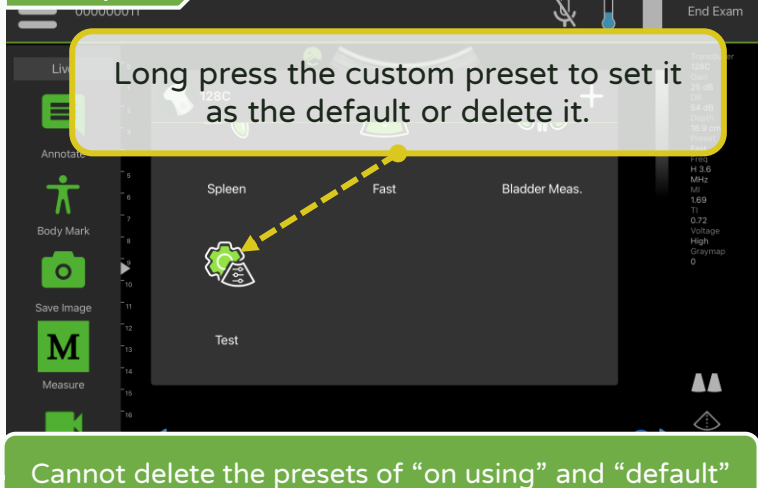
Step 4



Step 5



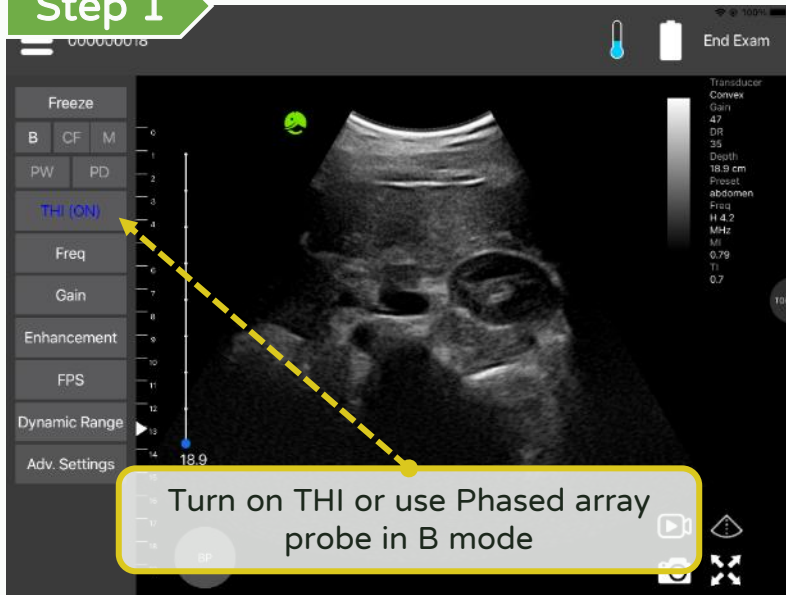
Step 6



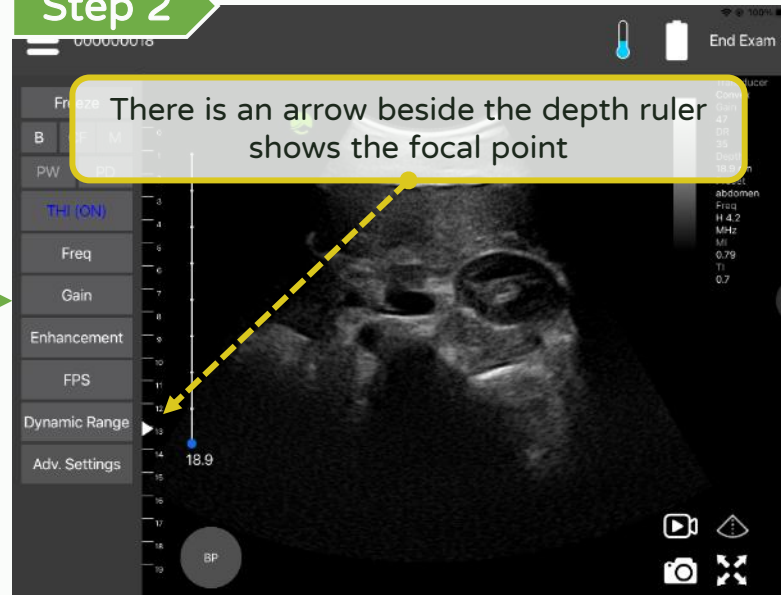
Scan - Adjust focus

LEL TEK

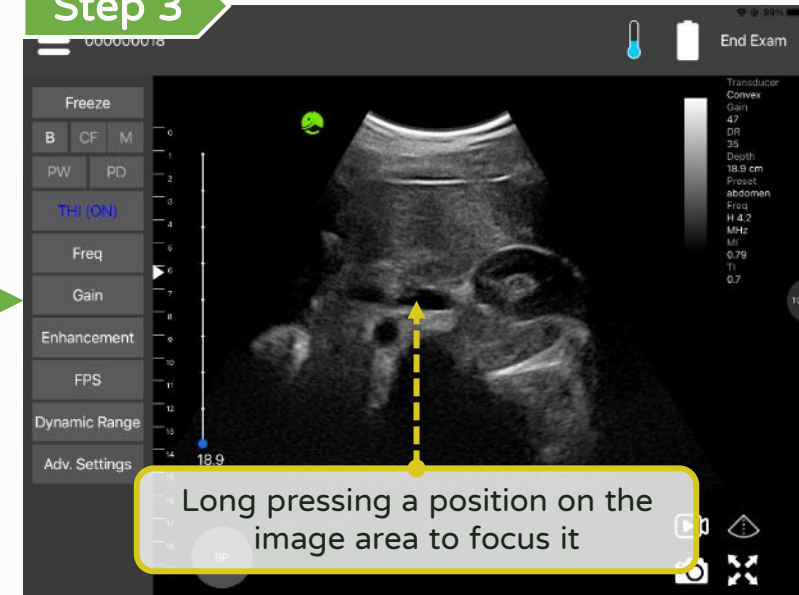
Step 1



Step 2

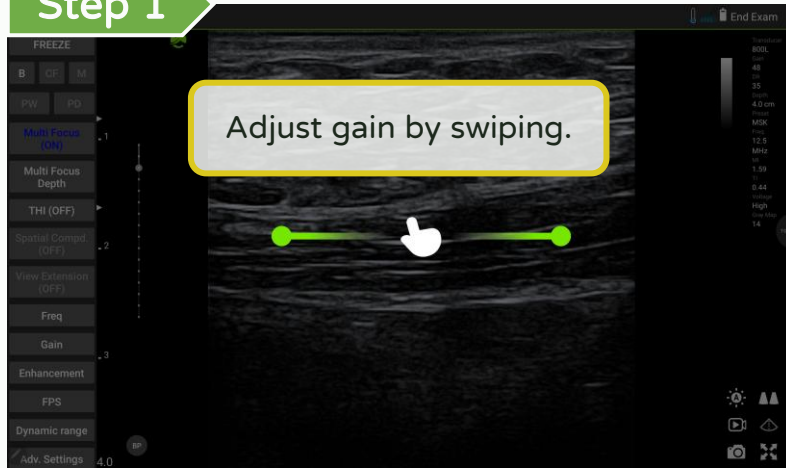


Step 3



Step 1

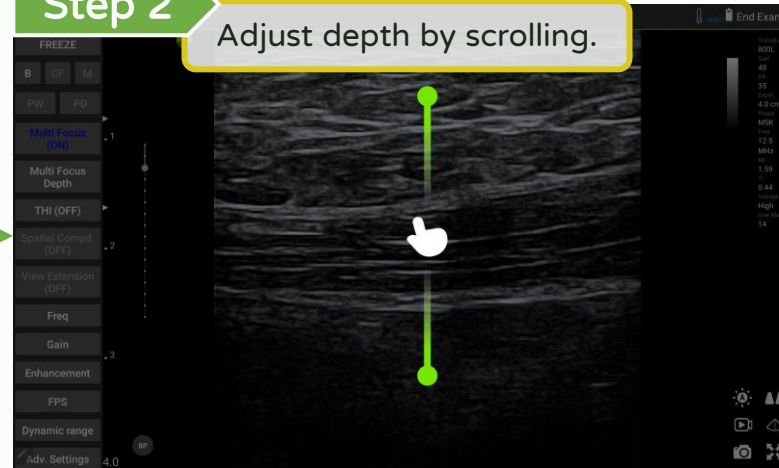
Adjust gain by swiping.



Adjust the gain

Step 2

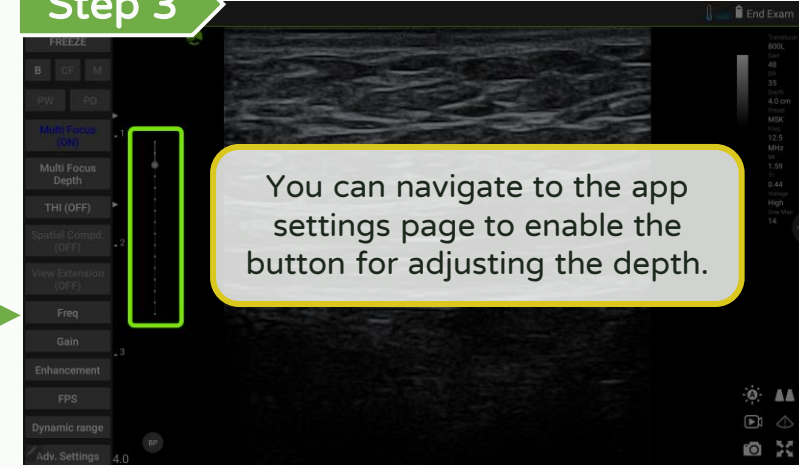
Adjust depth by scrolling.



Adjust the depth

Step 3

You can navigate to the app settings page to enable the button for adjusting the depth.





Functions	Voice Command
Freeze	Freeze
Live	Live
Save image	Capture image

To enhance the voice recognition function please refer to the manual guide

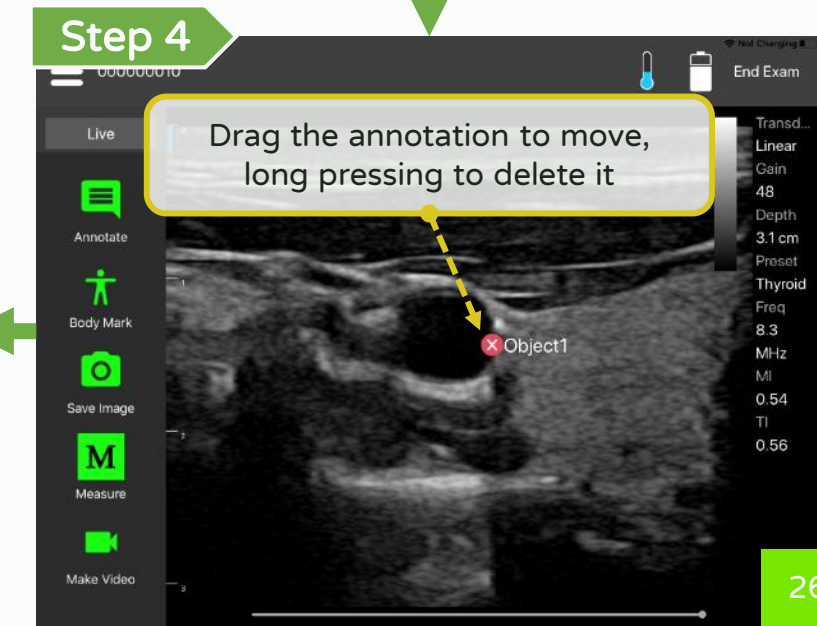
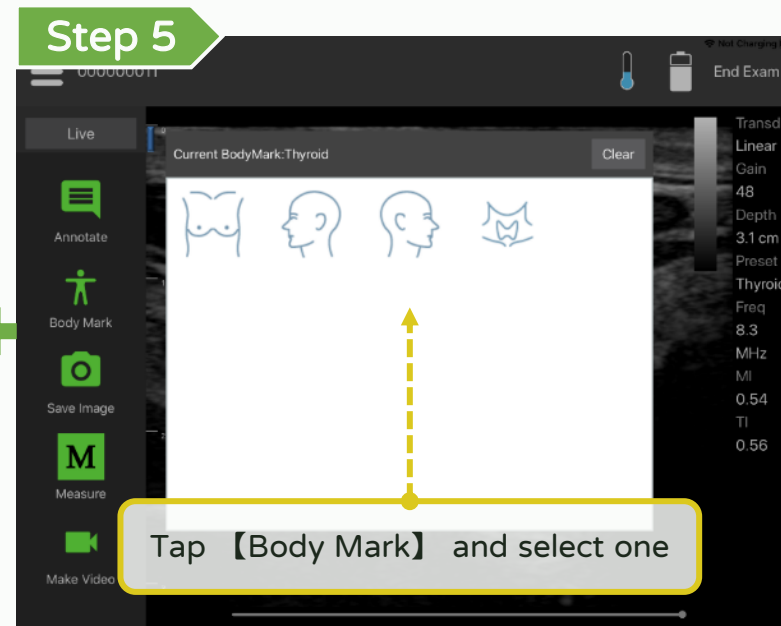
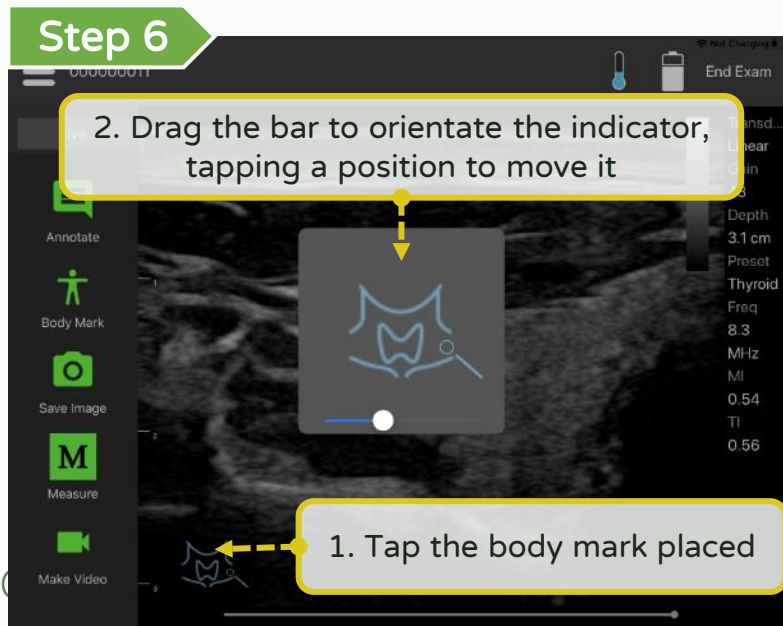
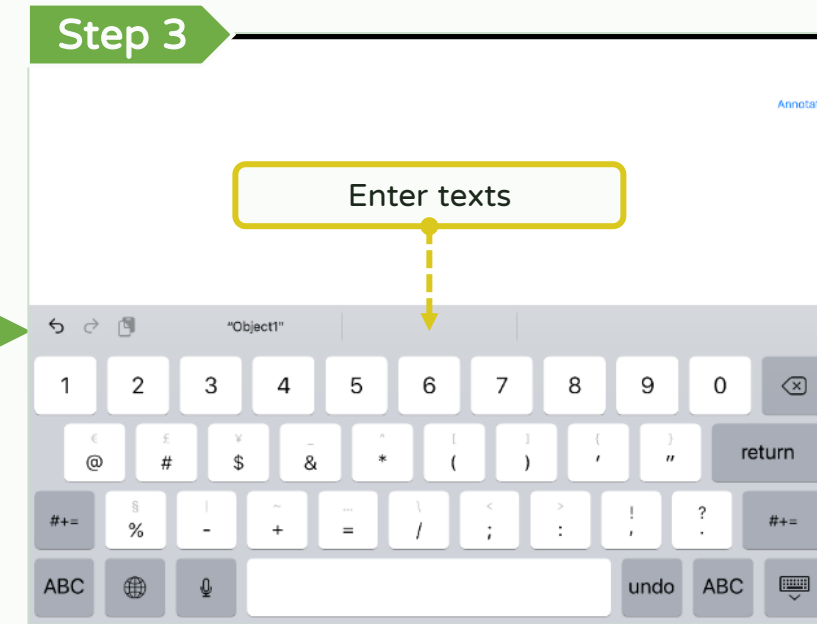
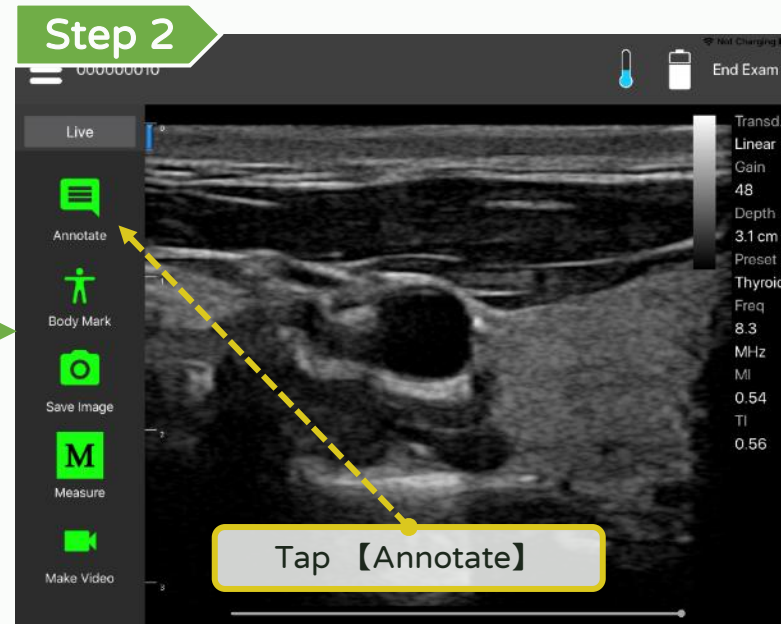
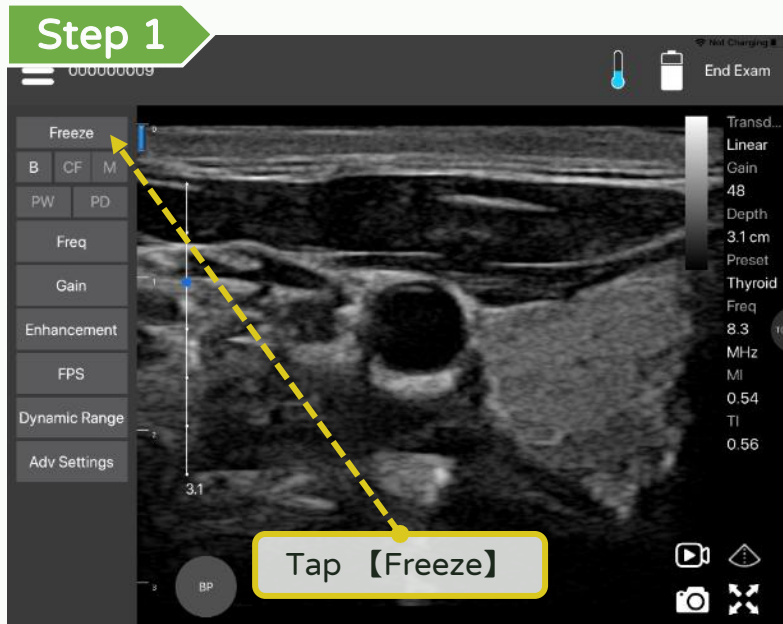
【Android】



【iOS】

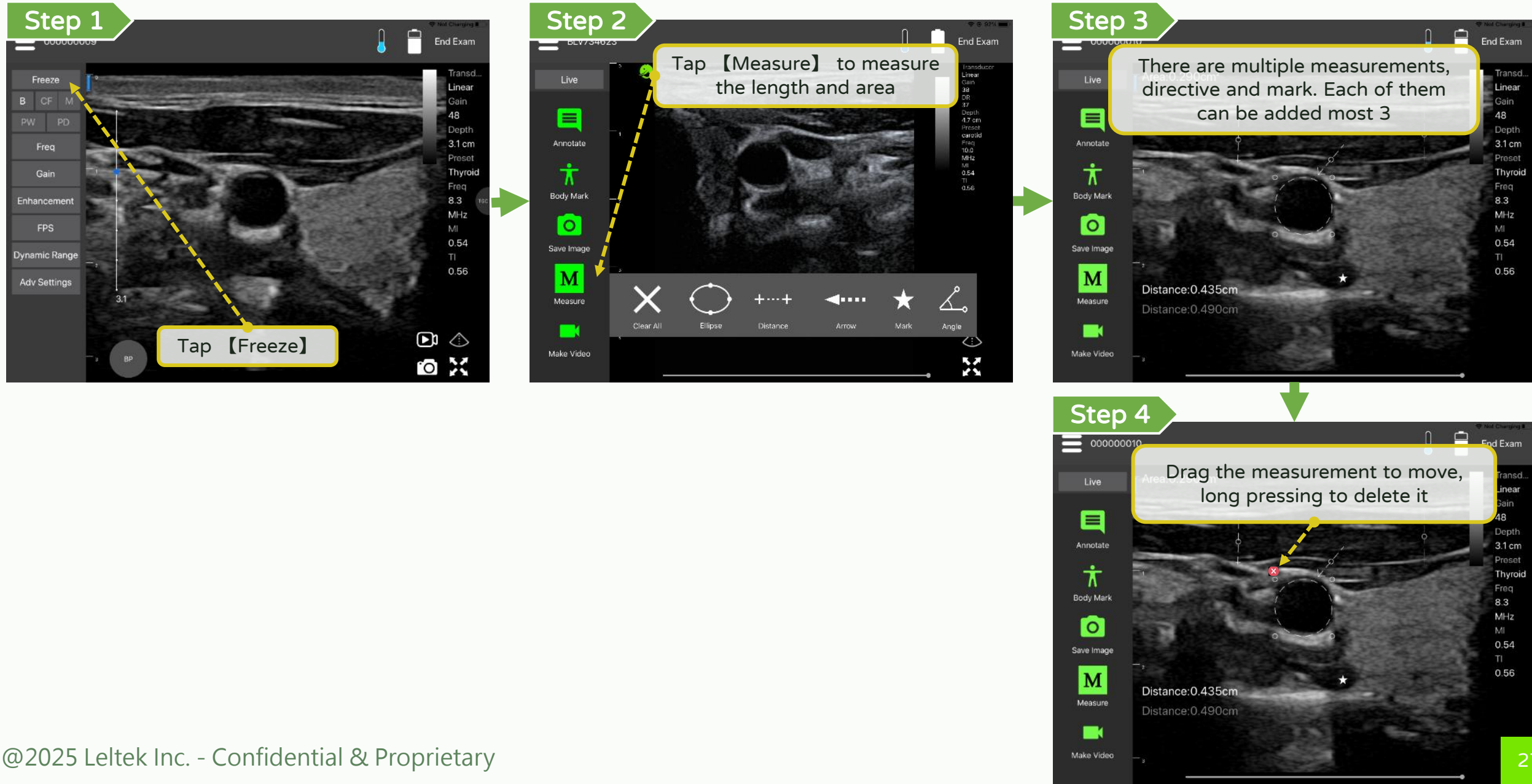


【 Annotate, measure and save 】

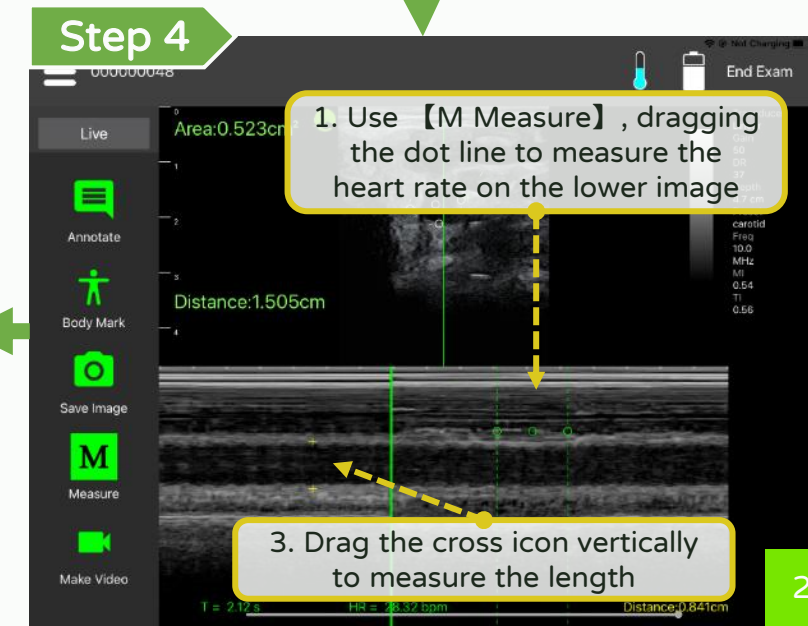
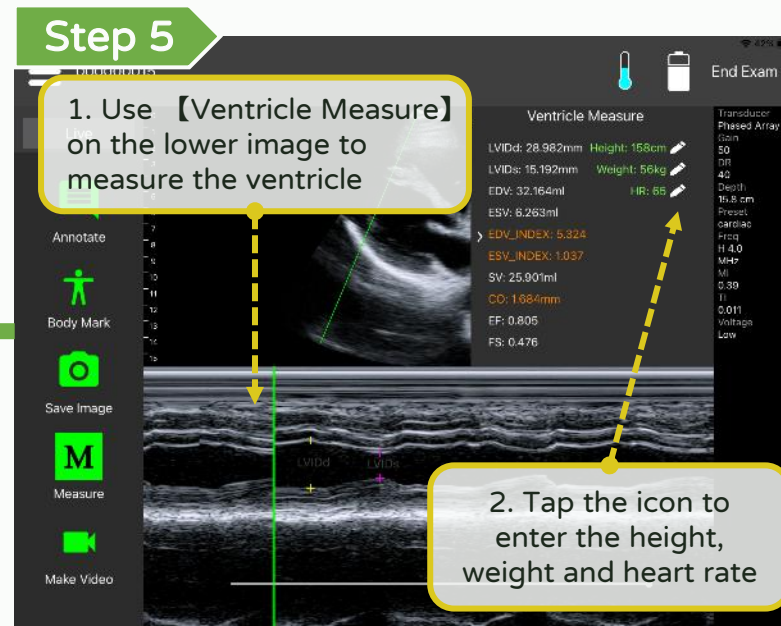
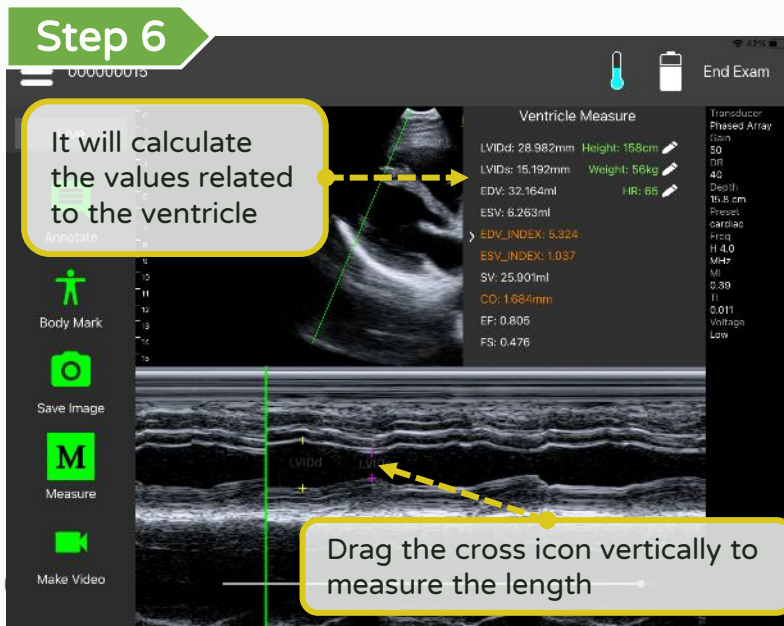
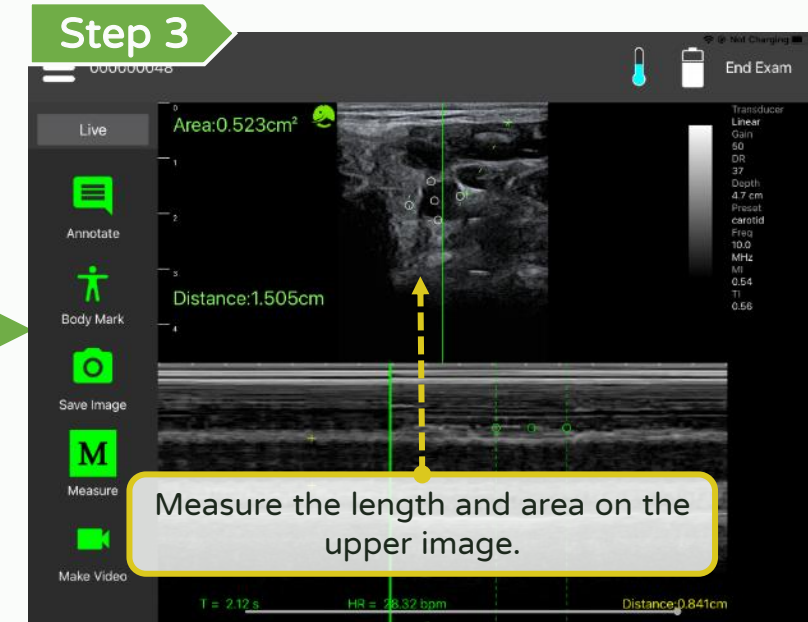
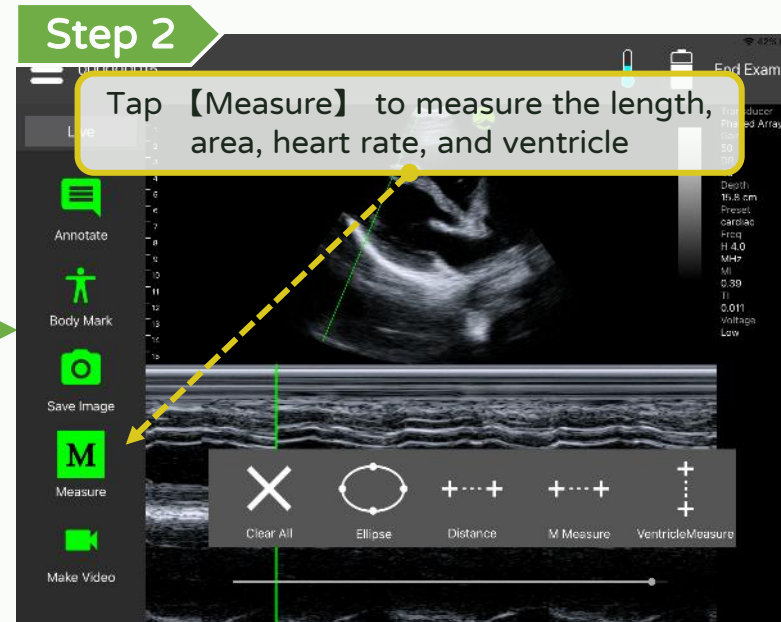
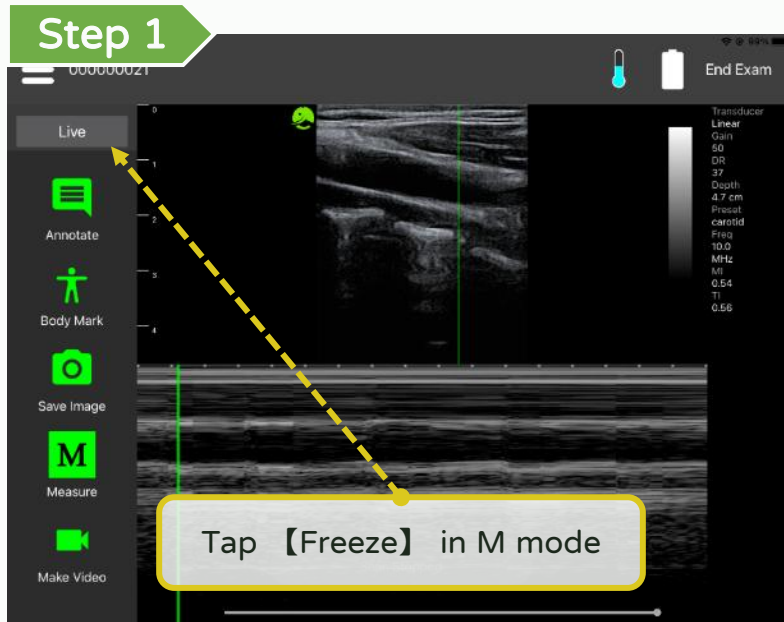


Annotate, measure and save - Measure

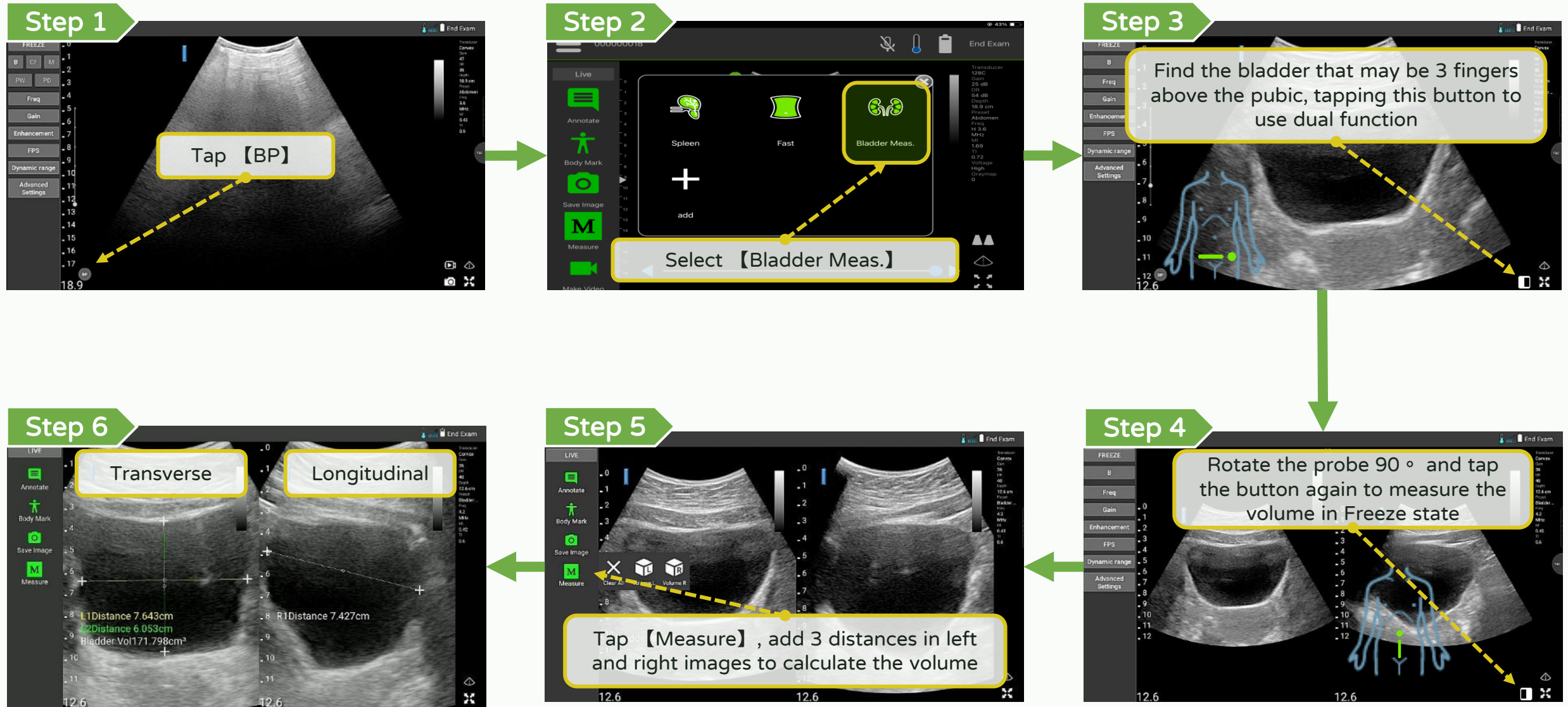
LEL TEK



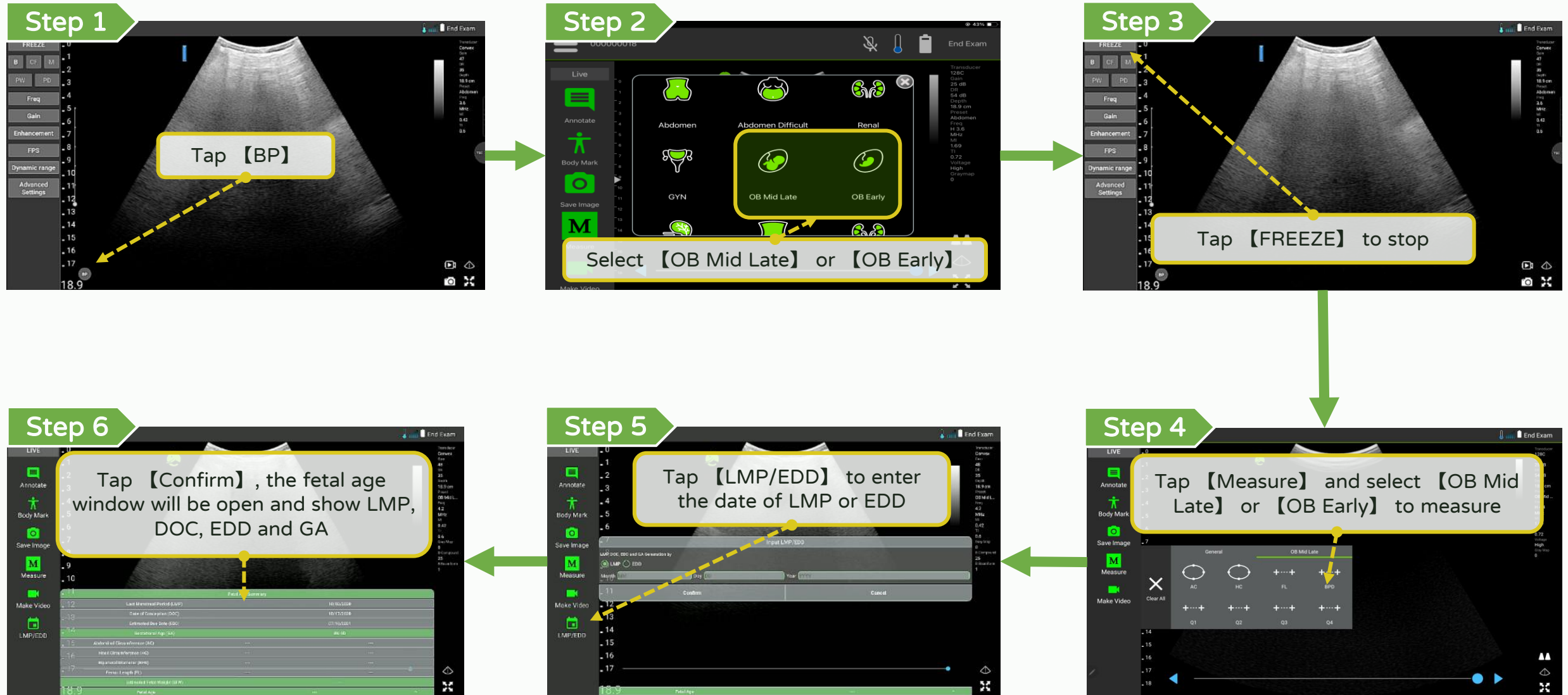
Annotate, measure and save - Measure in M mode



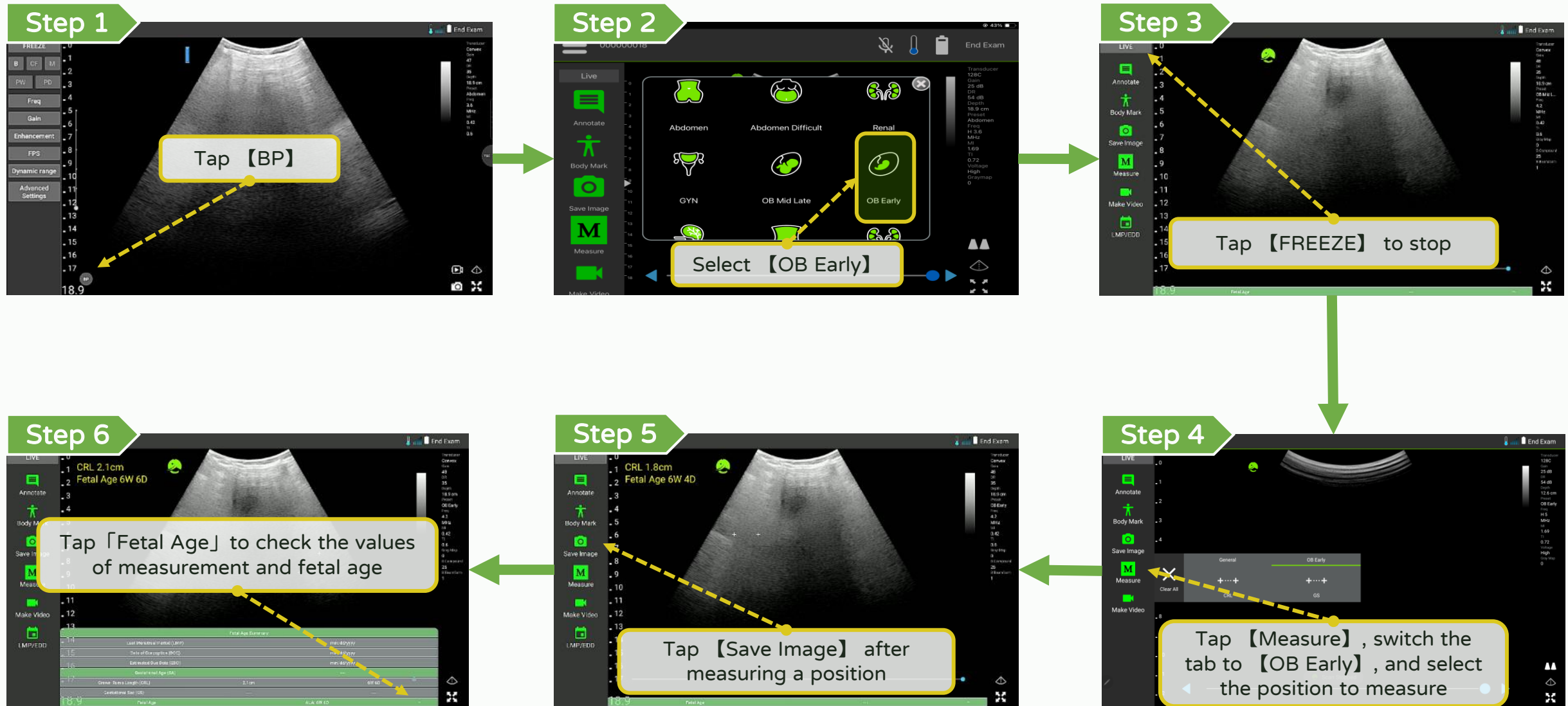
Annotate, measure and save - Measure Bladder



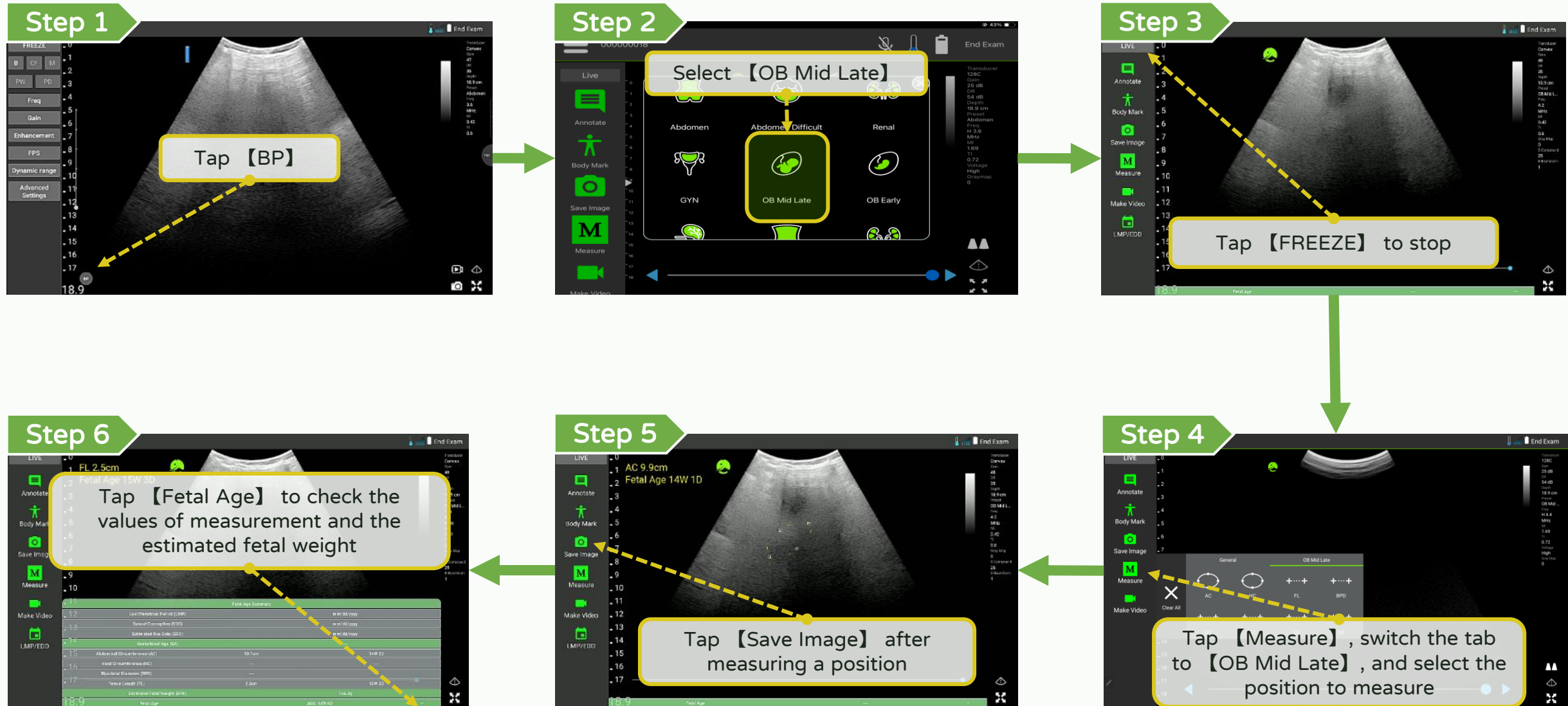
Annotate, measure and save - Calculating the gestational age **LEL TEK**



Annotate, measure and save - Measuring in OB early



Annotate, measure and save - Measuring in OB mid late



Annotate, measure and save - Measuring cardiac in B mode

LEL TEK

Step 1

Tap **【Freeze】** in preset Cardiac in B mode

Step 2

Tap **【Measure】** and select **【Cardiac】** tab

Step 3

Use ED Area, ED length, ES Area, ES Length to calculate SV, EF. It will show the values in the table.

Step 4

Tap the pen icon to enter BSA

Step 5

It will calculate SV, SI, CO, CI, EF and show it in the table

The screenshots show the following data tables:

Table 1 (Step 3):

Height:	Weight:	HR:
---	---	---
Length: 4.98 cm	2.70 cm	SV: 70.57 ml
Area: 22.72 cm ²	7.45 cm ²	SI: ---
Volume: 87.99 ml	17.42 ml	CI: ---

Table 2 (Step 5):

Height:	Weight:	HR:
158 cm	50 kg	60 bpm
Length: 4.98 cm	2.70 cm	SV: 70.57 ml
Area: 22.72 cm ²	7.45 cm ²	SI: 47.64 ml/m ²
Volume: 87.99 ml	17.42 ml	CI: 2.86 l/min/m ²

Annotate, measure and save - Save (Instant)

Step 1

Save an image instantly

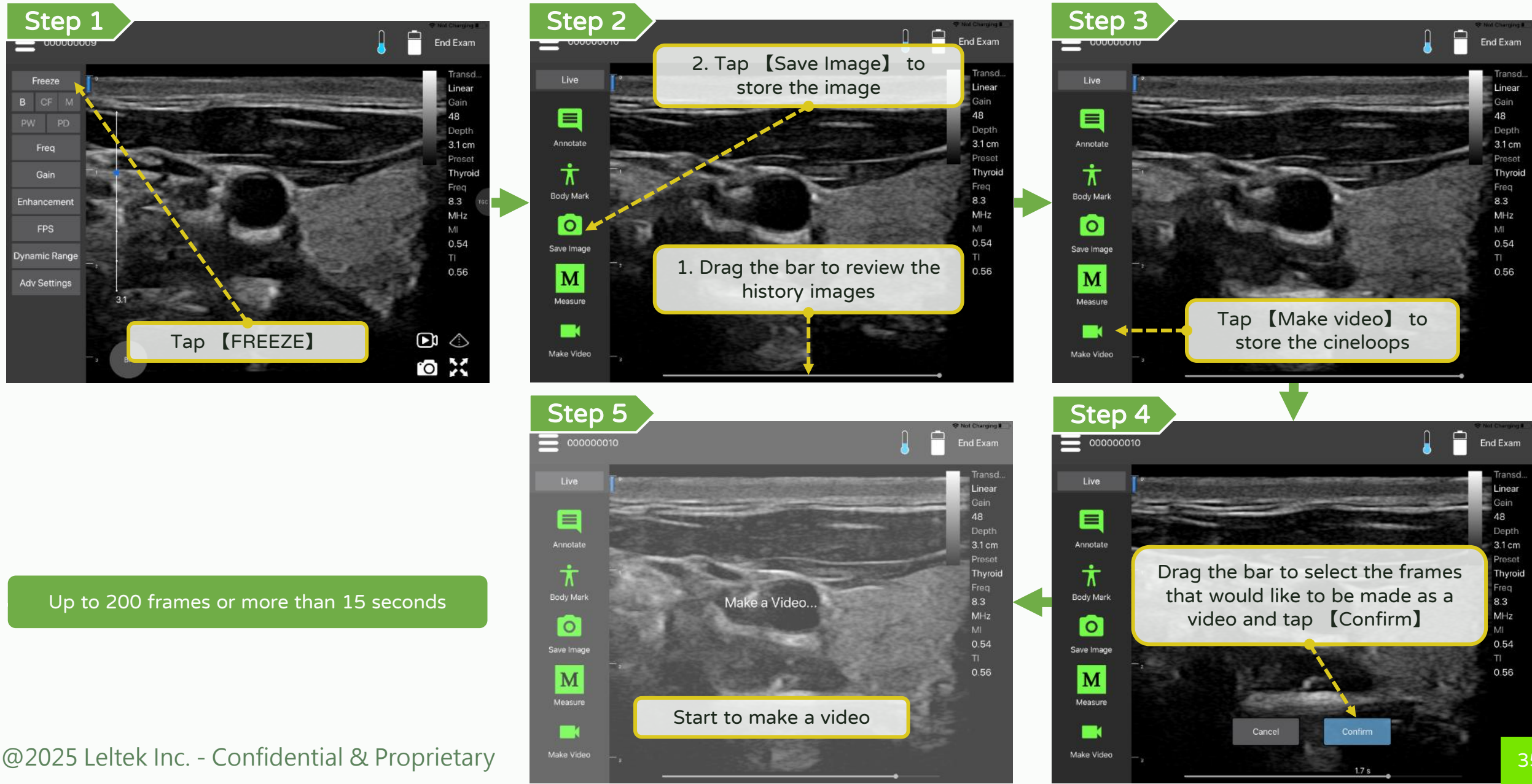
Step 2

Make a video instantly for most 30 seconds

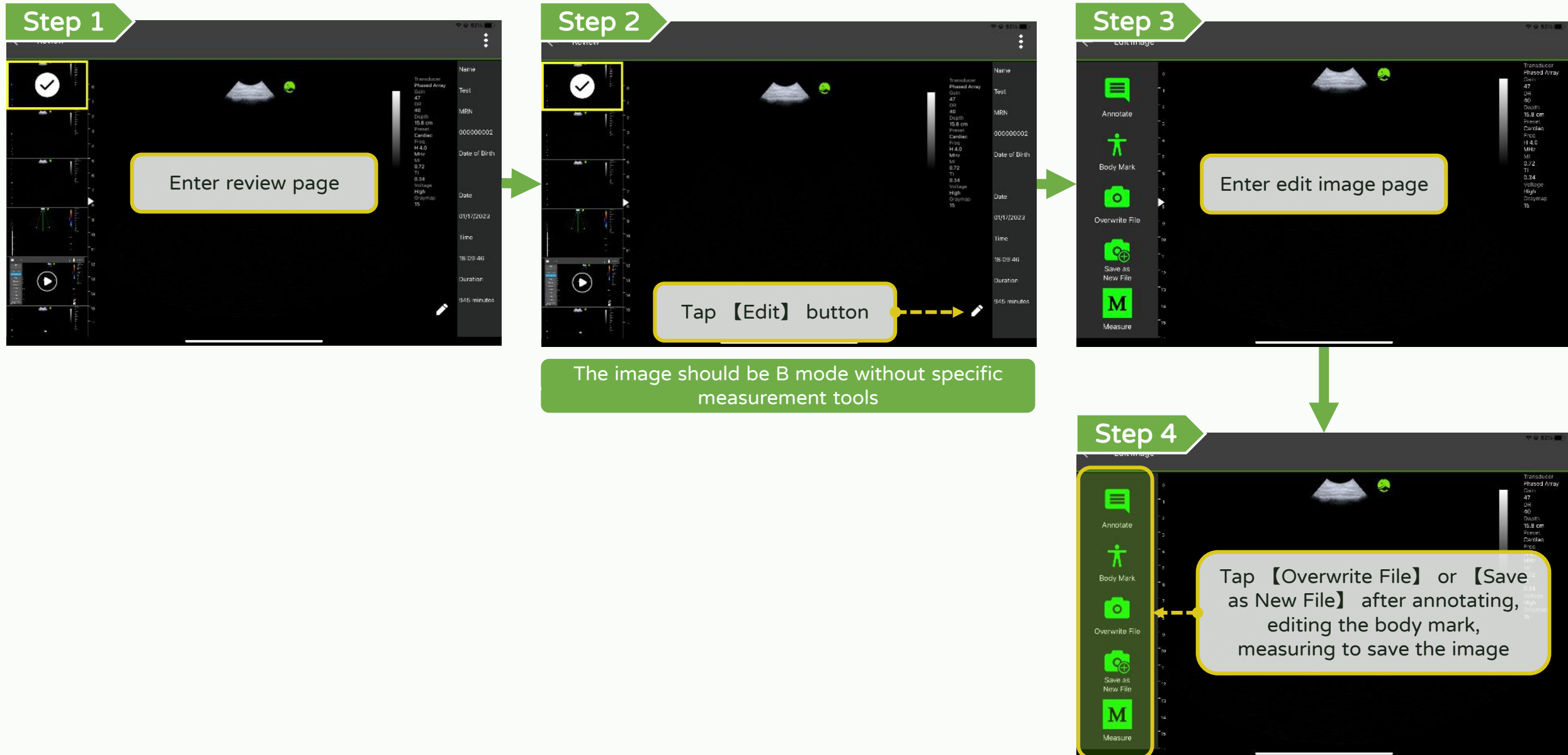
Up to 200 frames or more than 15 seconds

Annotate, measure and save - Save image (Not Instant)

LEL TEK

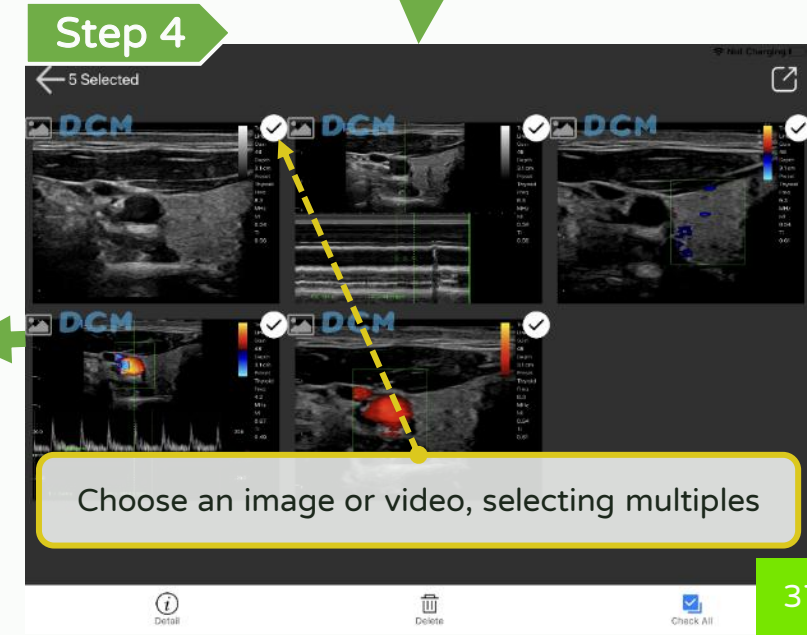
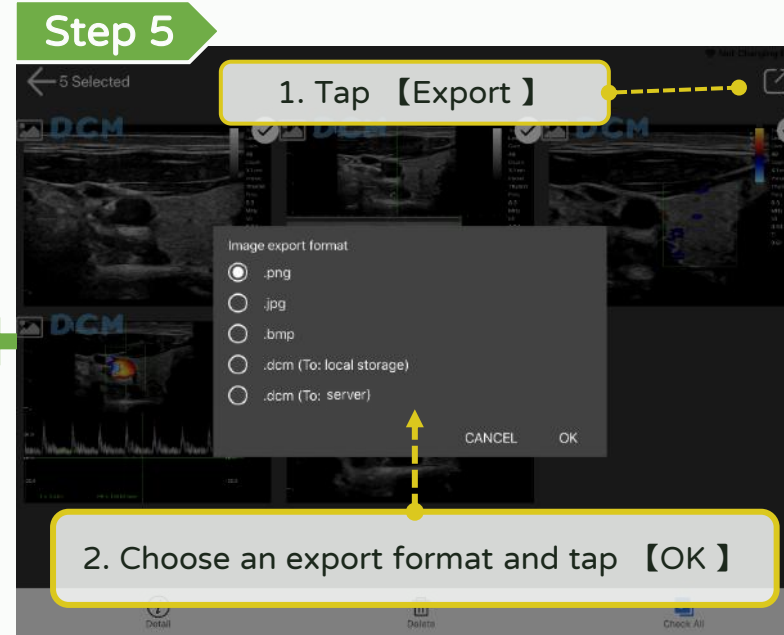
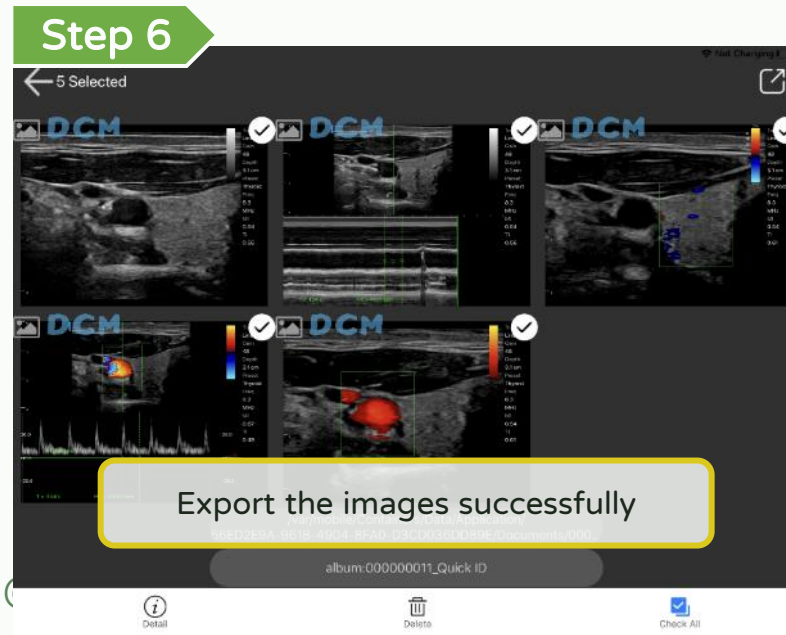
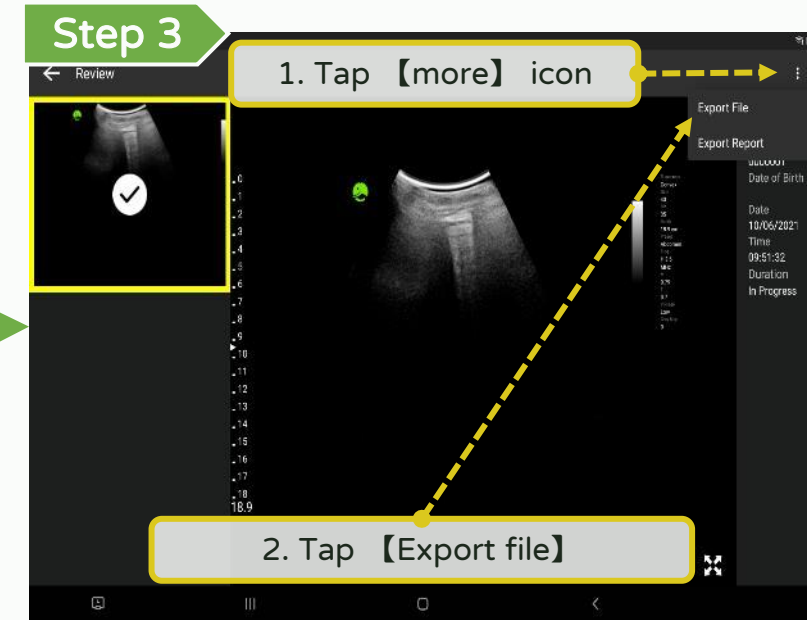
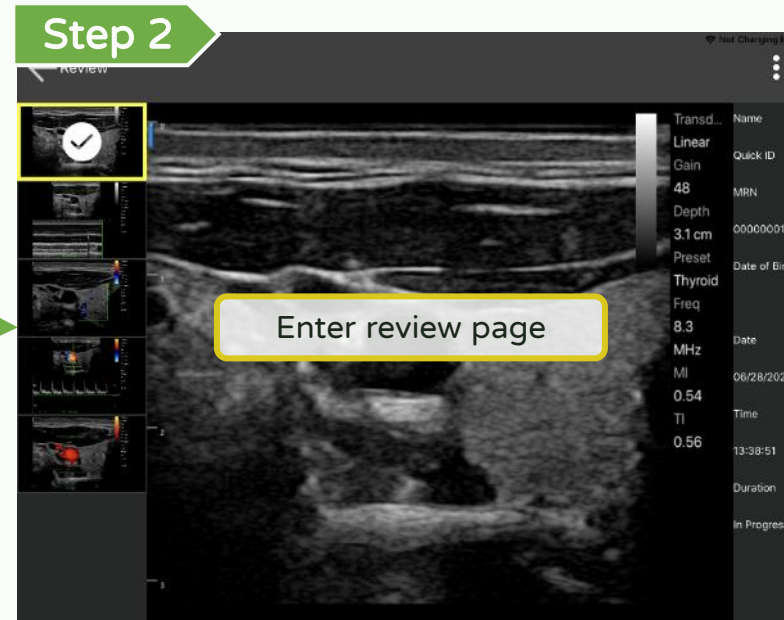
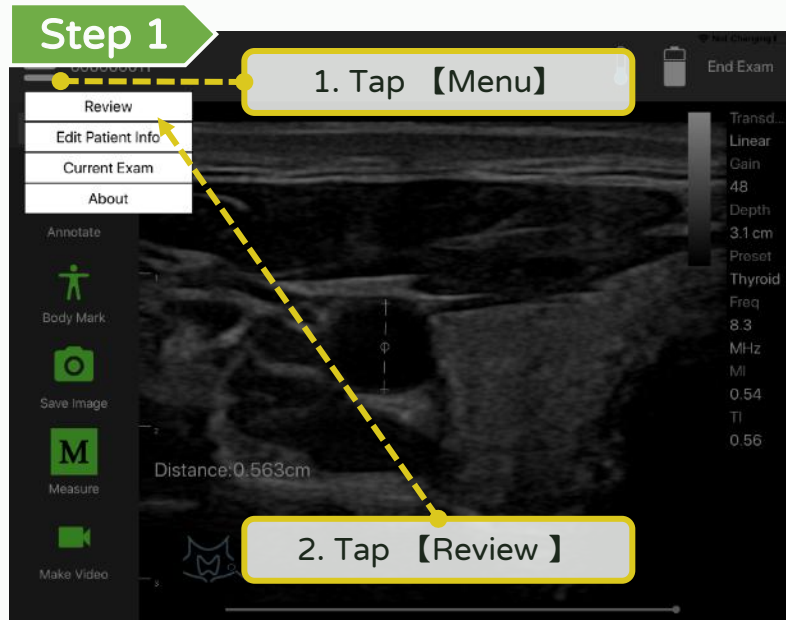


Annotate, measure and save - Re-edited & re-measured image **LEL TEK**

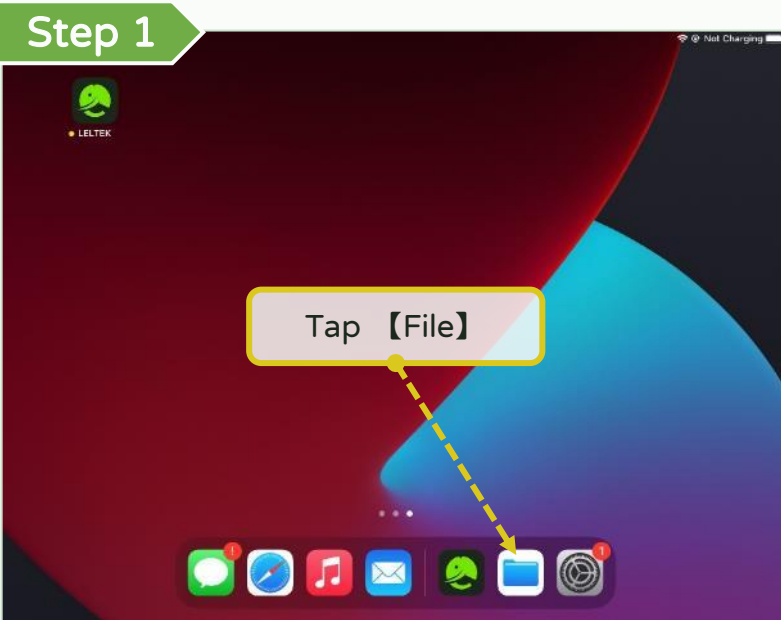


Annotate, measure and save - Export

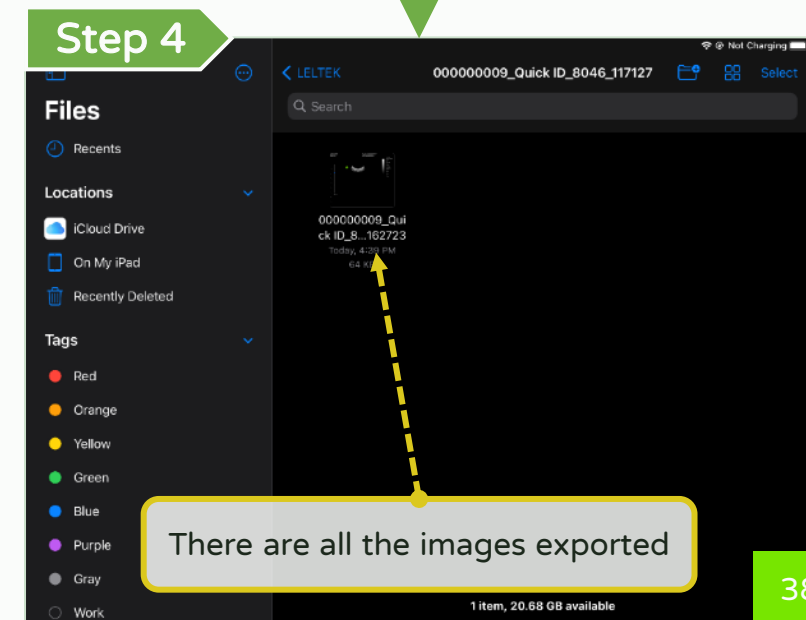
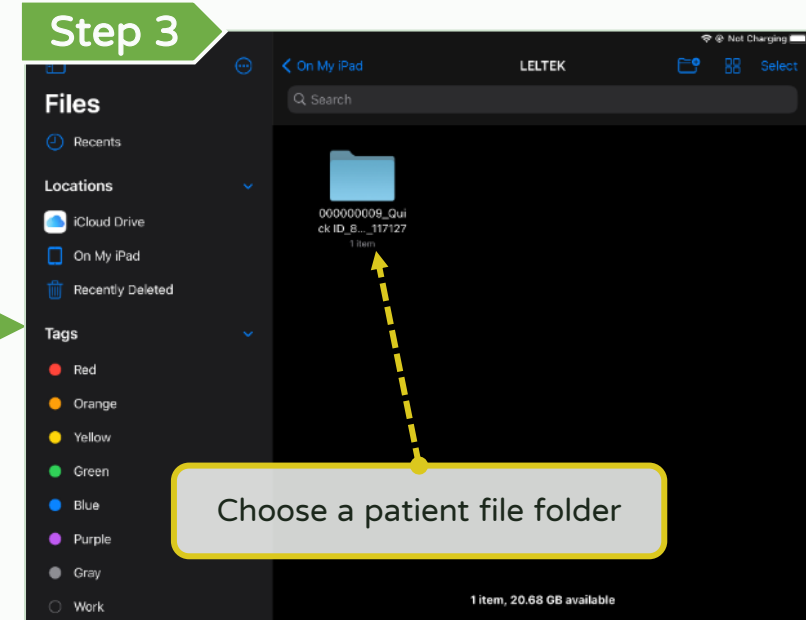
*Please export the files regularly to avoid data loss. **LEL TEK**



Annotate, measure and save - Export path

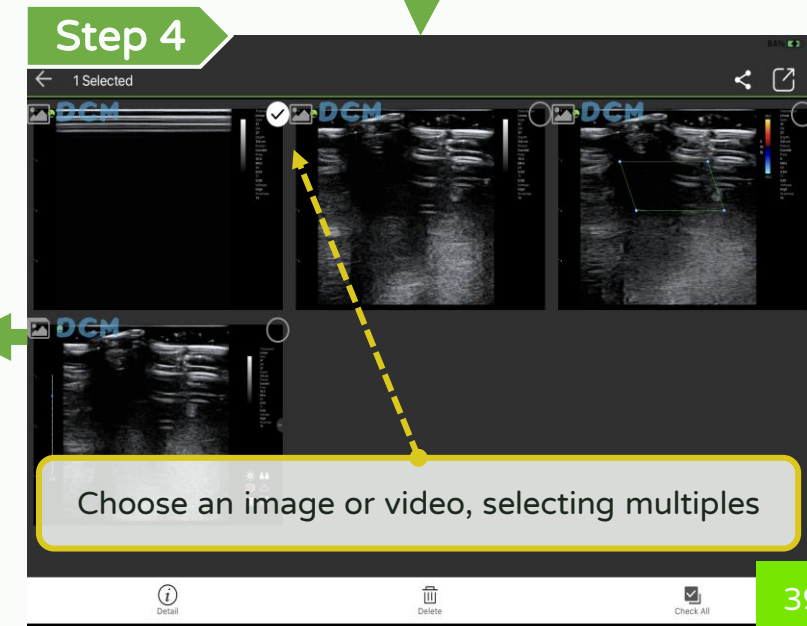
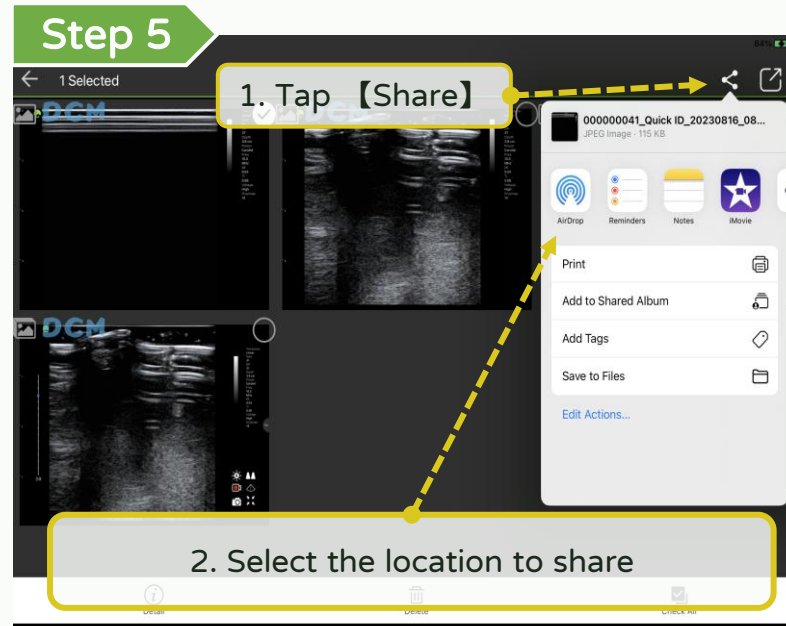
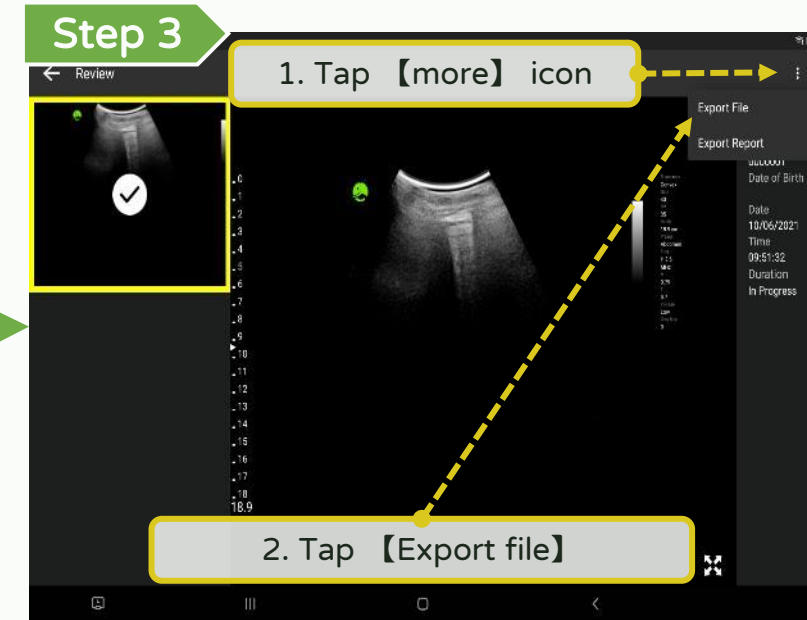
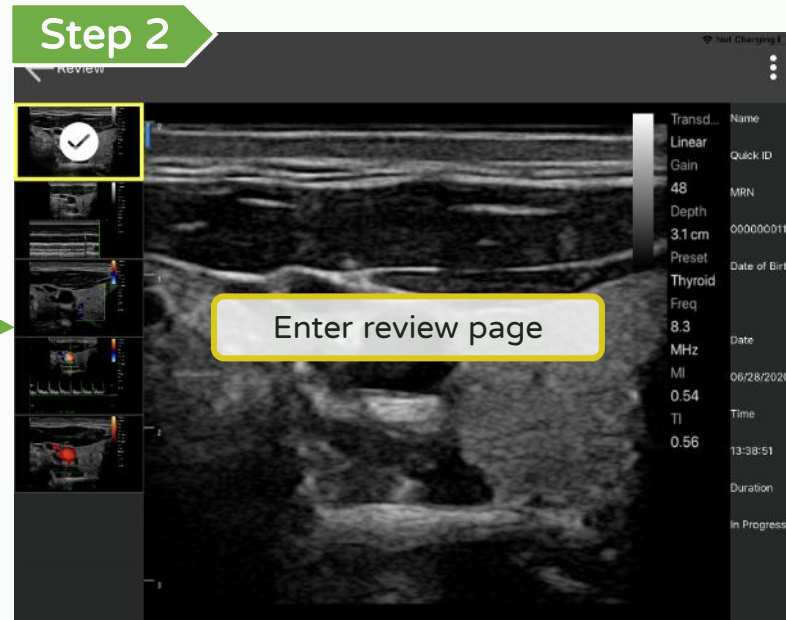
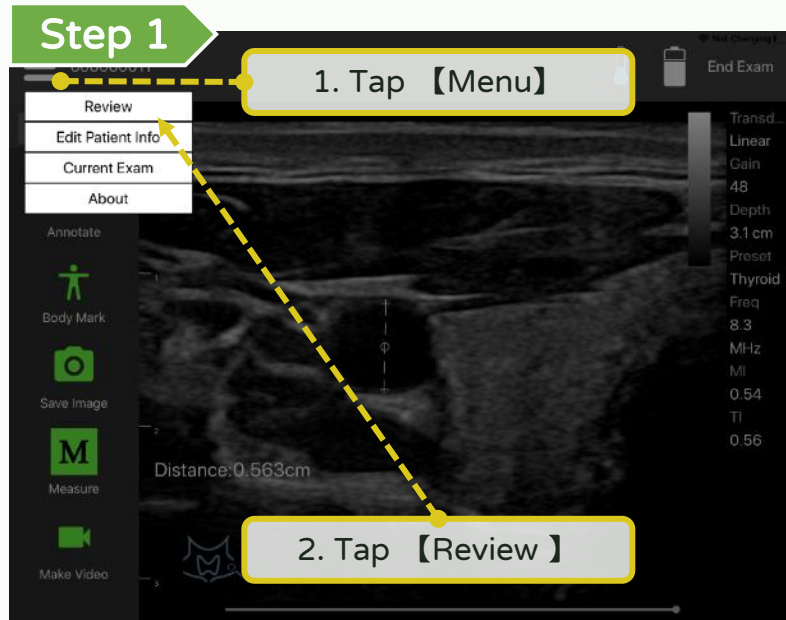


The folder where files are placed in each smart device is different, please refer to the device manual



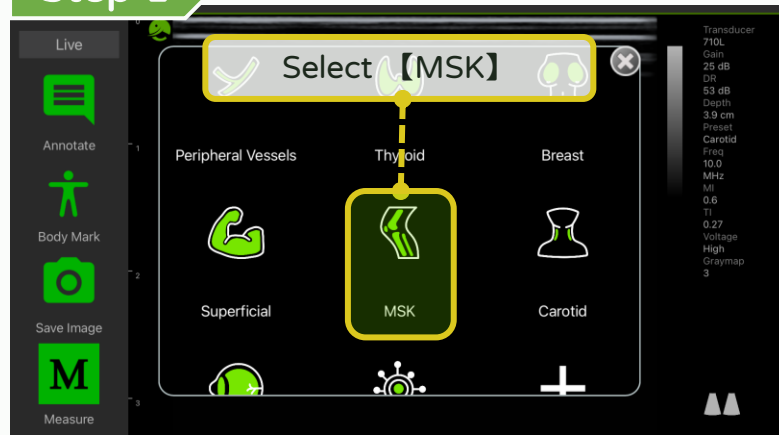
Annotate, measure and save - Share

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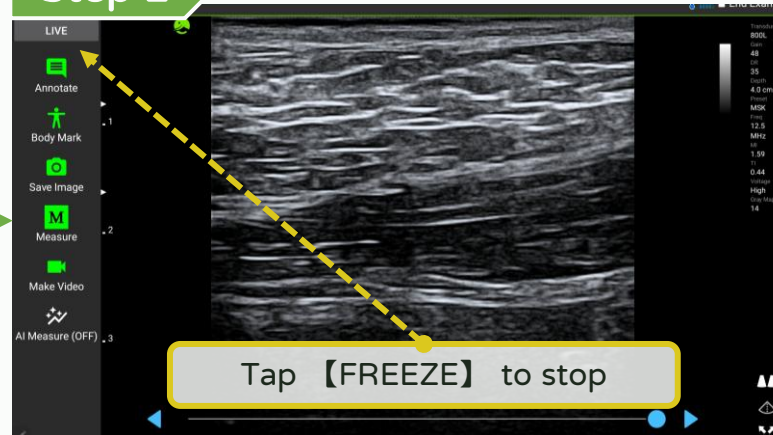


Annotate, measure and save - Auto Measure (Fat)

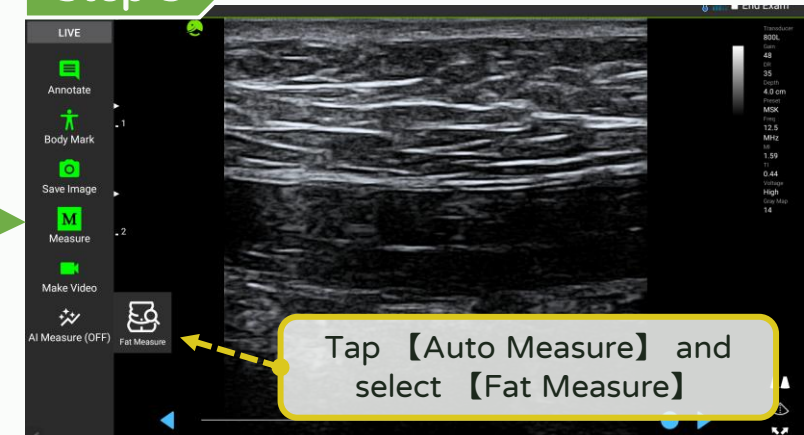
Step 1



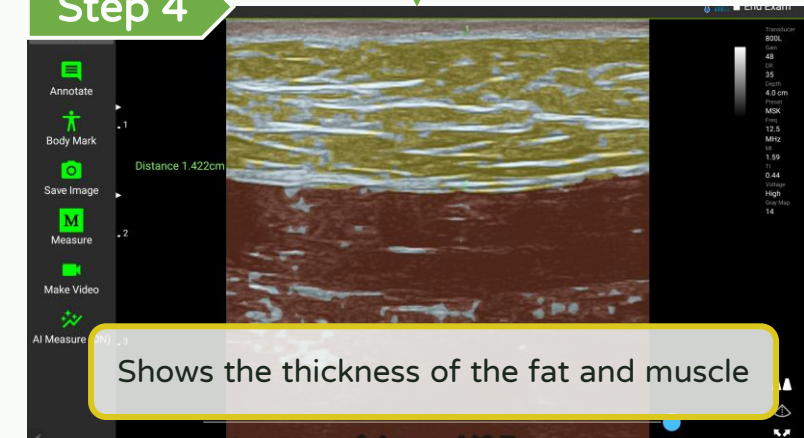
Step 2



Step 3



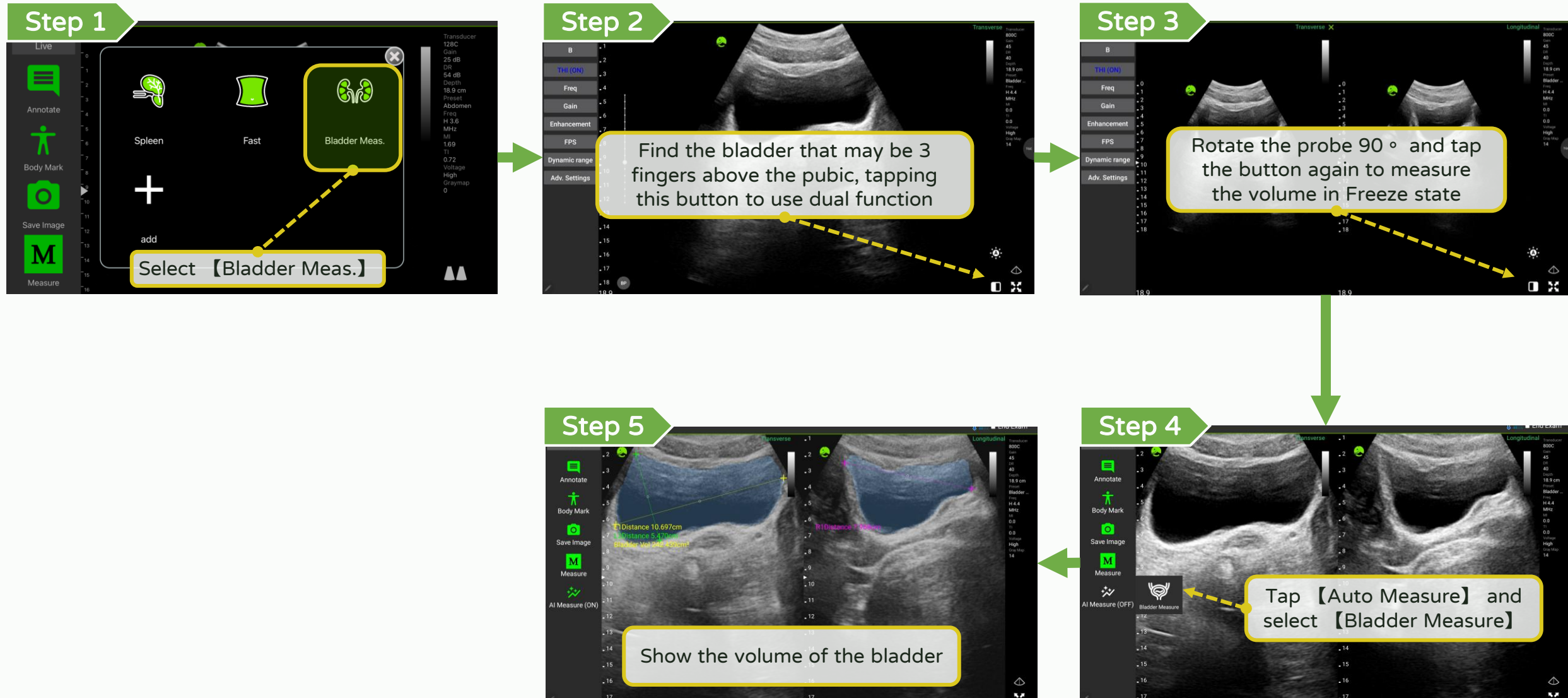
Step 4



Annotate, measure and save - Auto Measure (IMT)



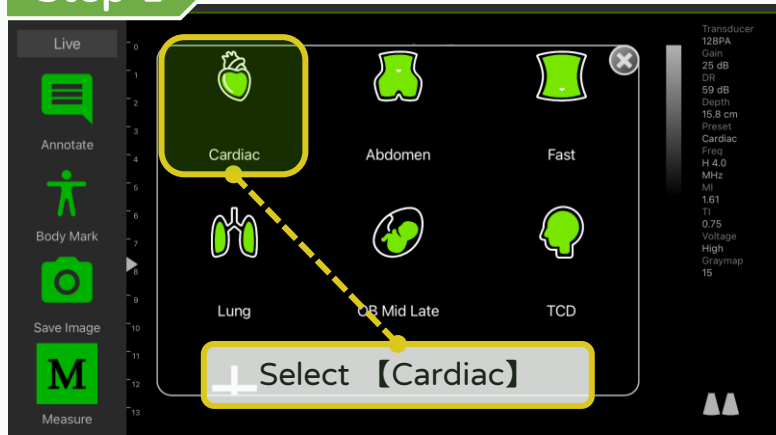
Annotate, measure and save - Auto Measure (Bladder)



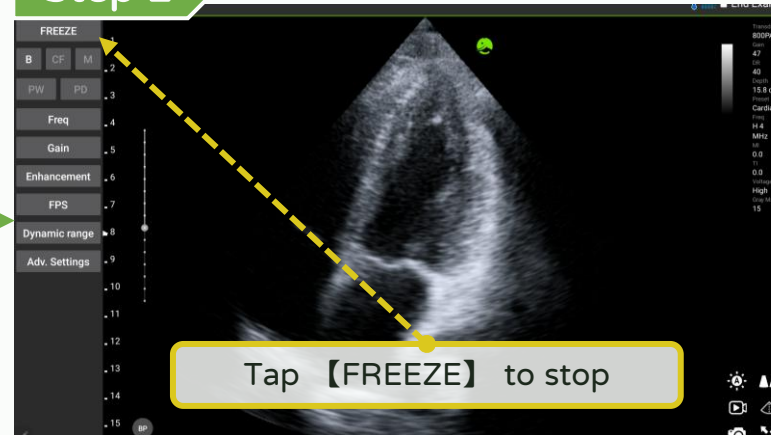
Annotate, measure and save - Auto Measure (EF)

LEL TEK

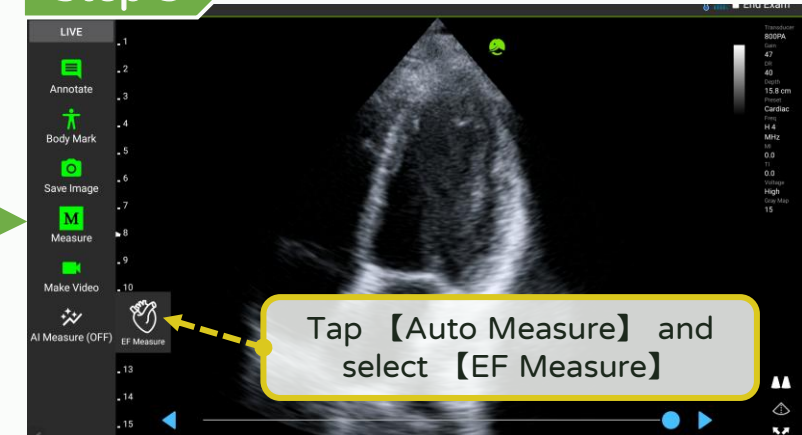
Step 1



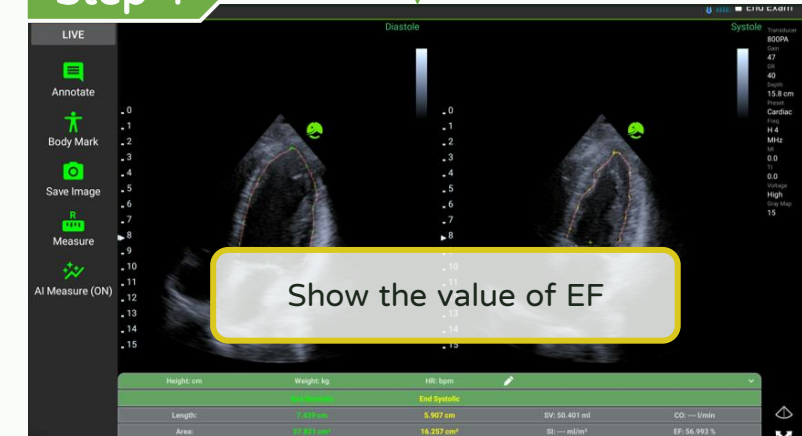
Step 2



Step 3

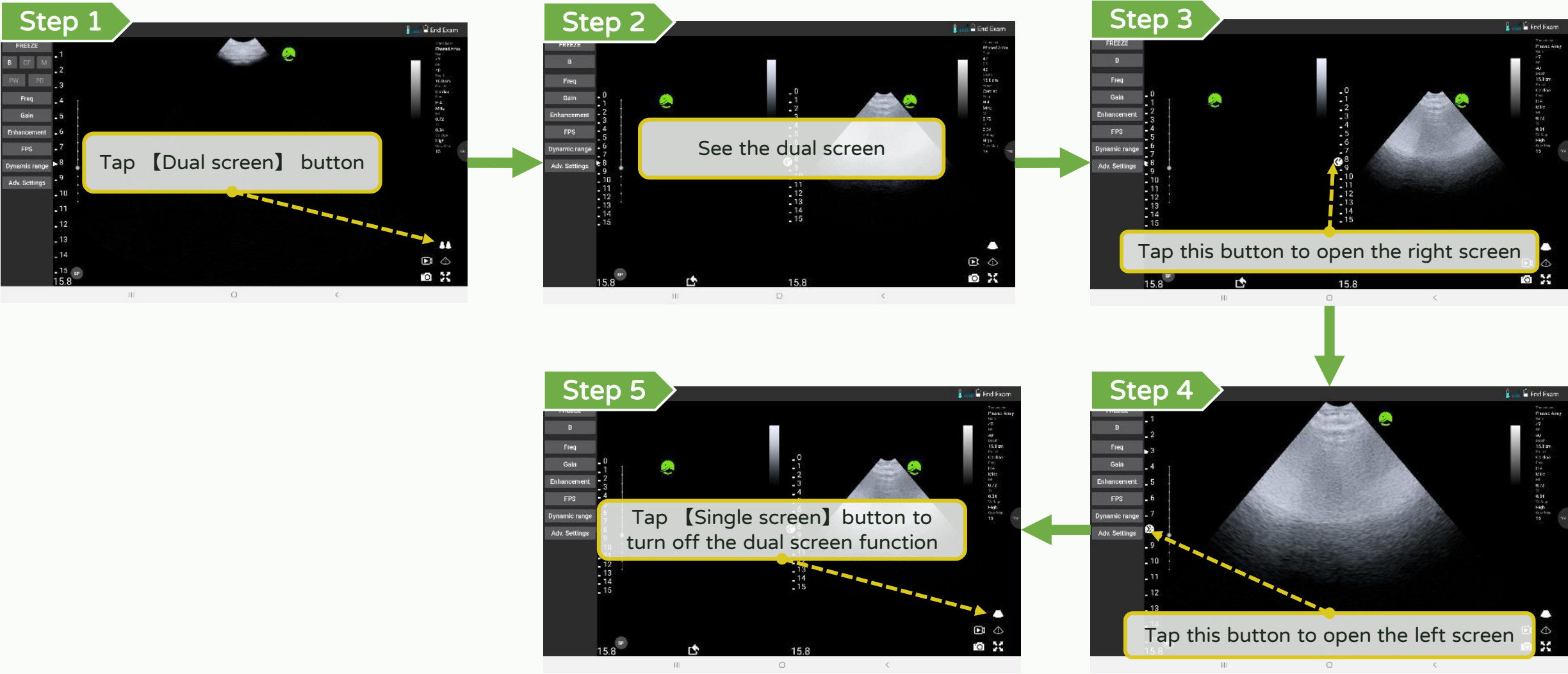


Step 4

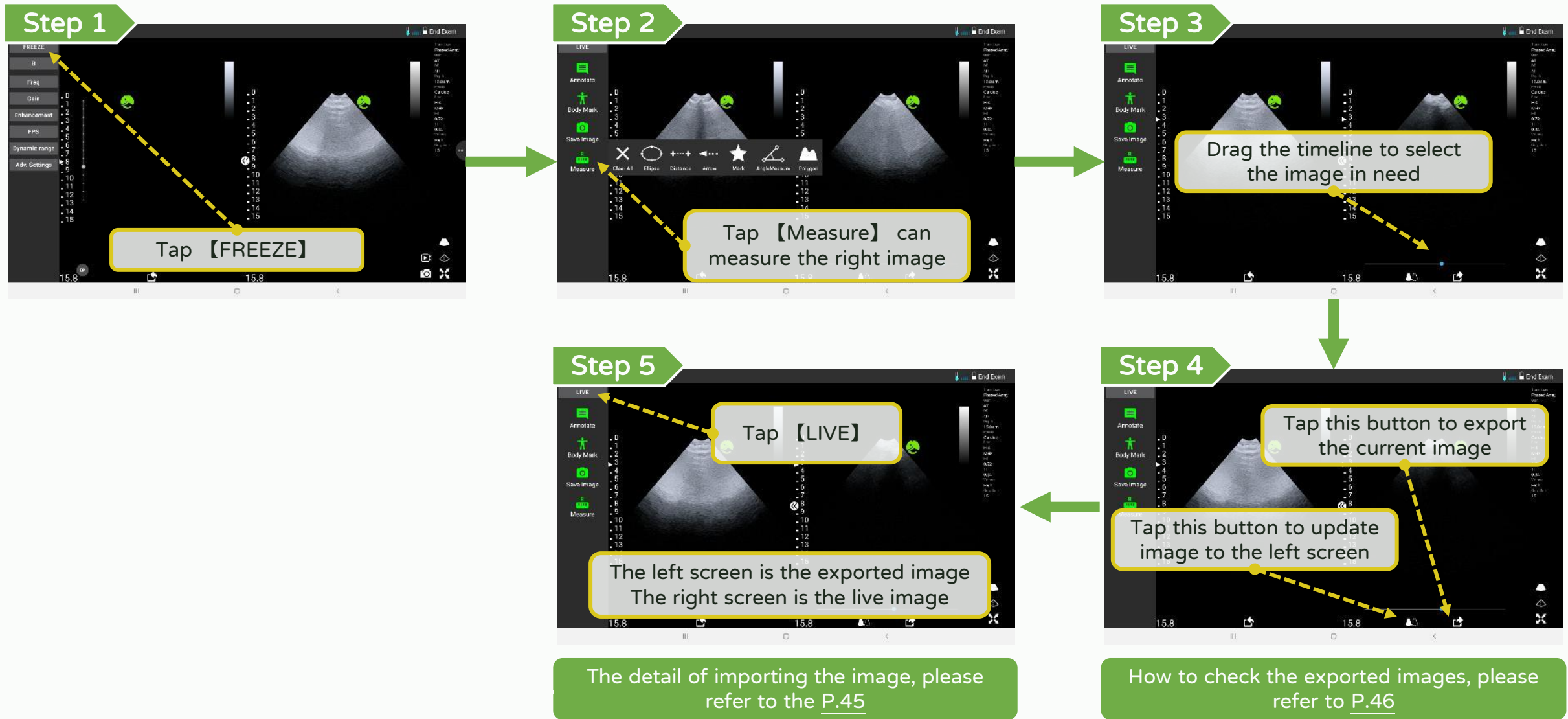


【Dual screen】

Dual Screen - Turn on / off

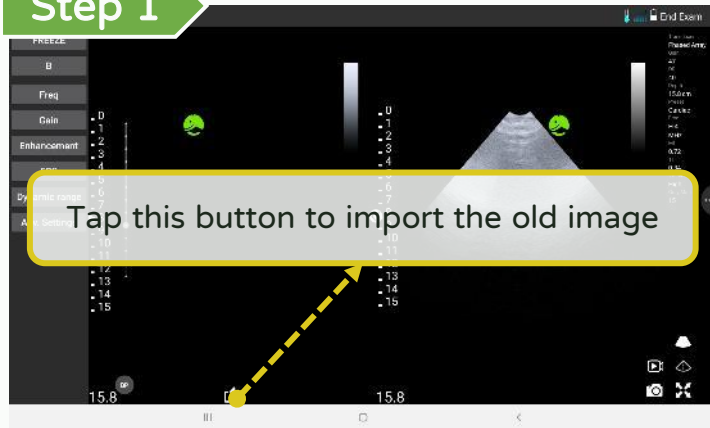


Dual Screen - Measure and export the current image

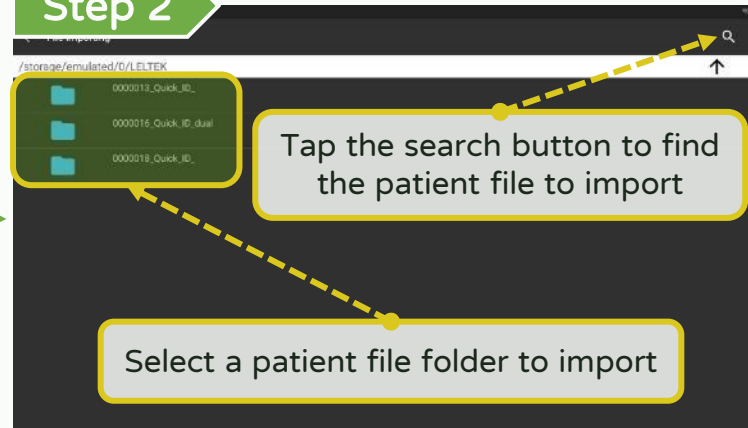


Dual Screen - Import the old image

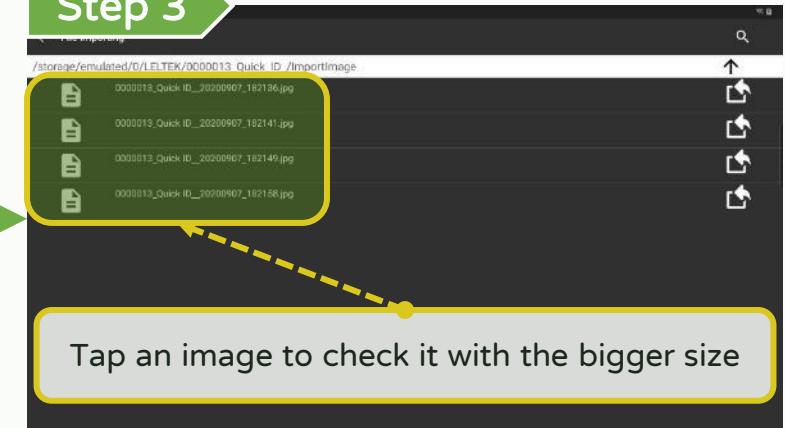
Step 1



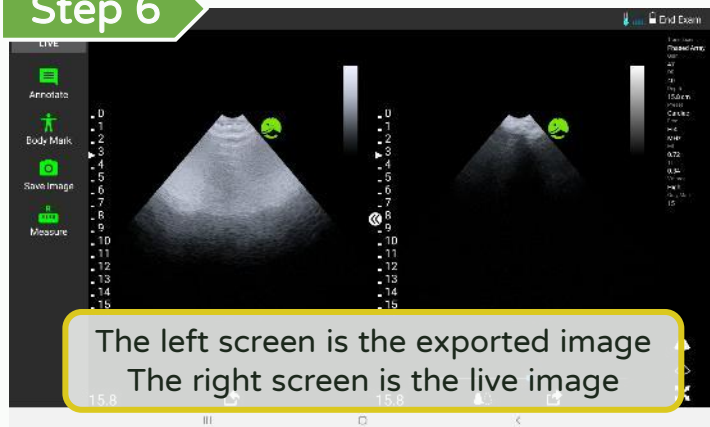
Step 2



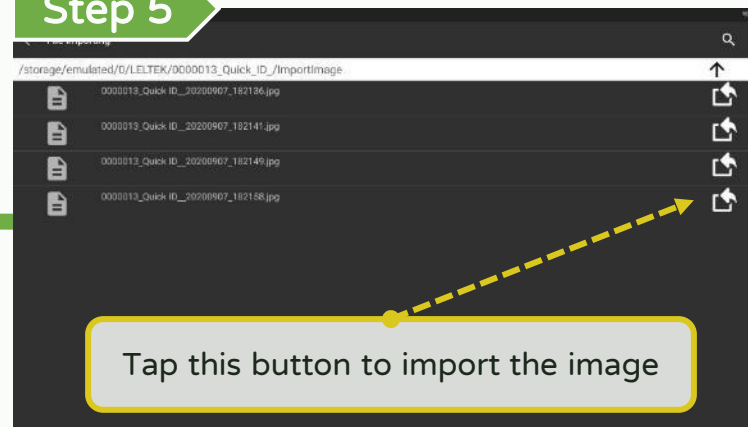
Step 3



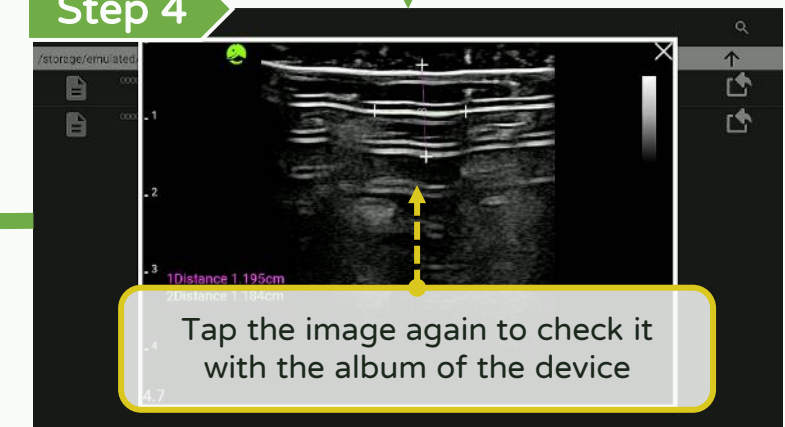
Step 6



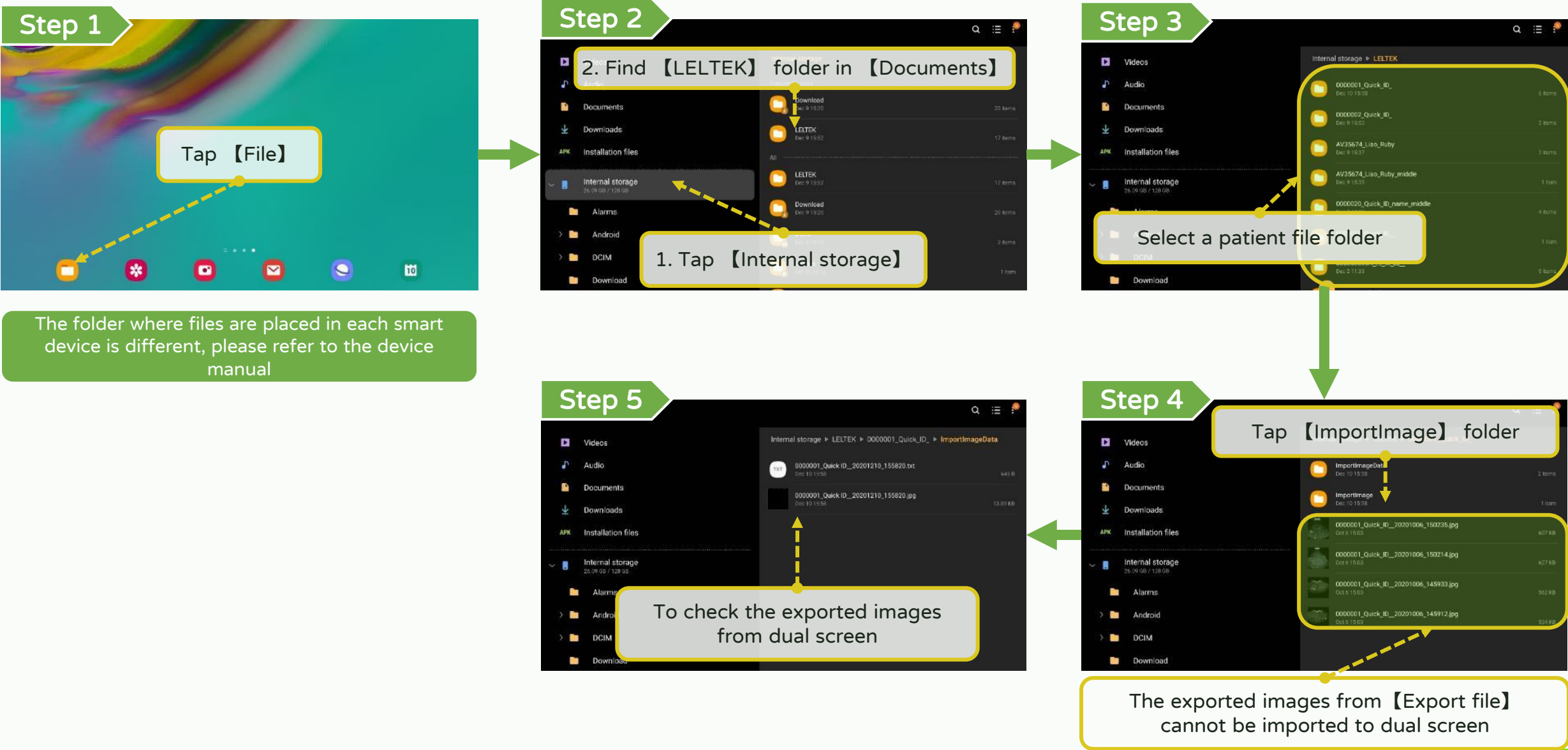
Step 5



Step 4



Dual Screen - Check the image exported

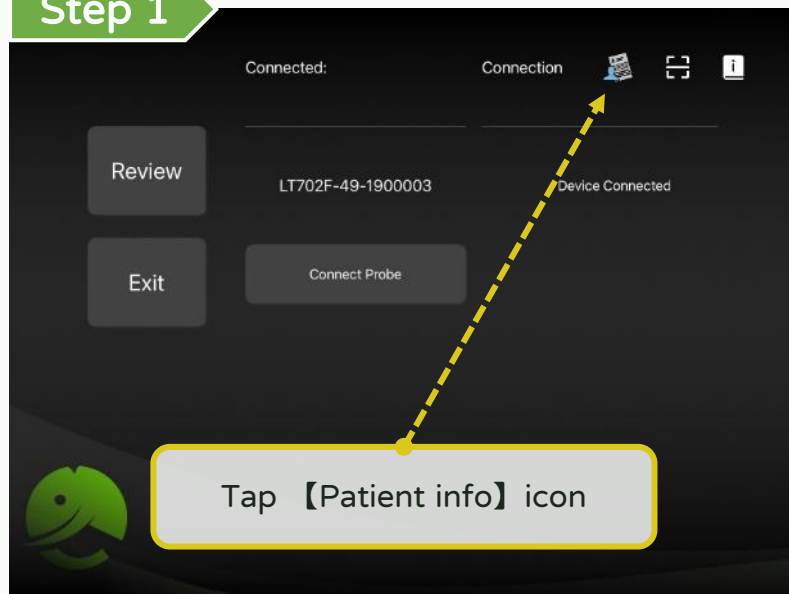


【 DICOM support 】

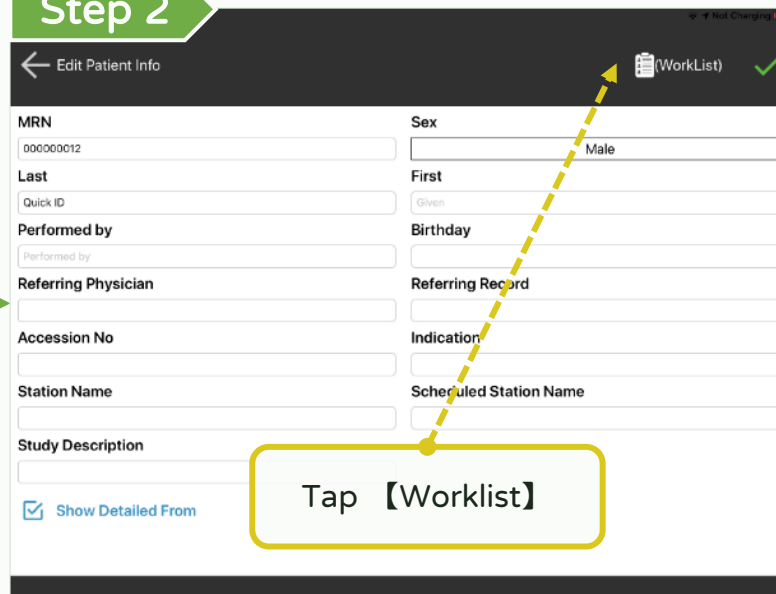
DICOM support - Download worklist (1/2)

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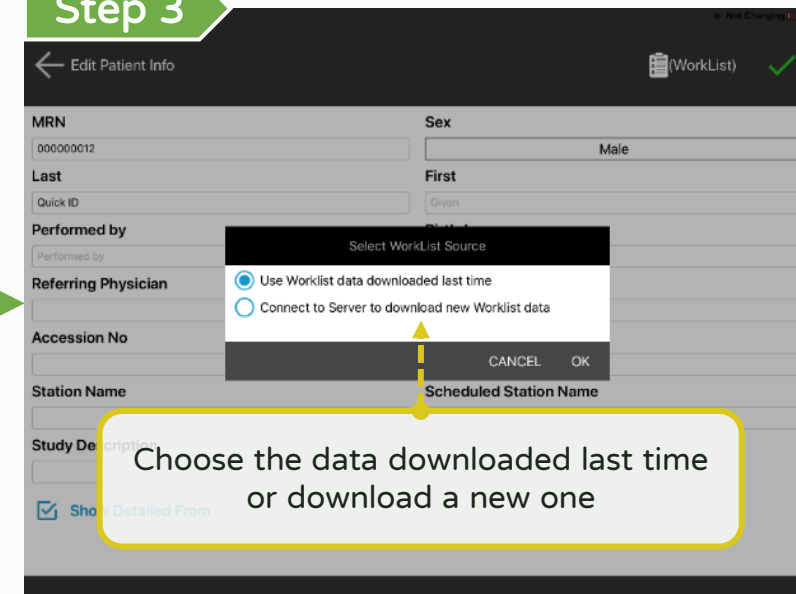
Step 1



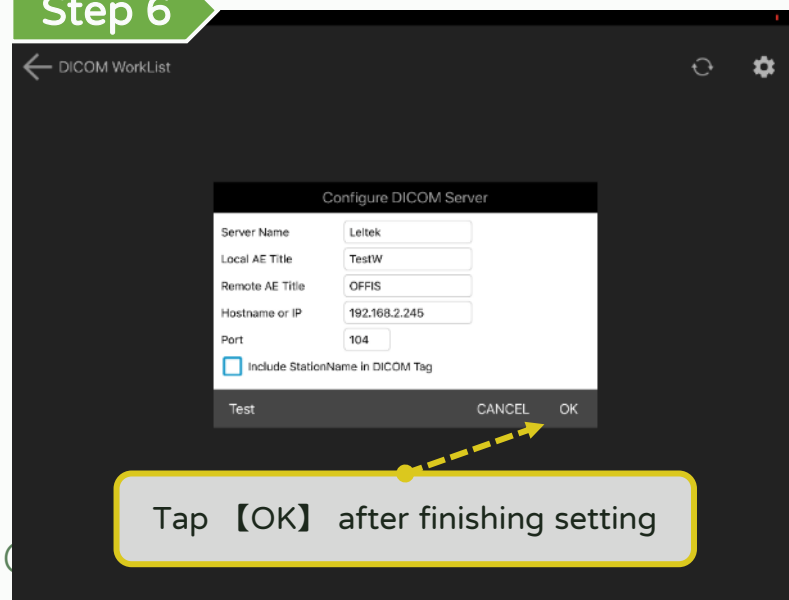
Step 2



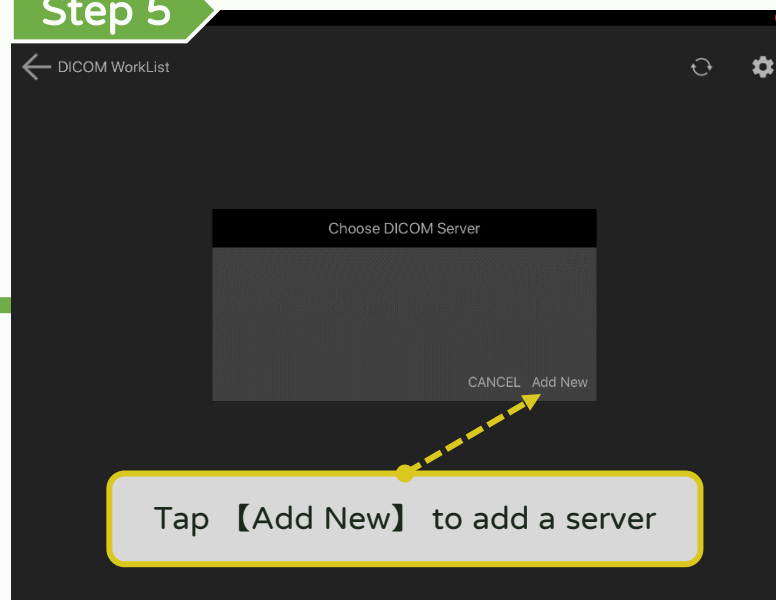
Step 3



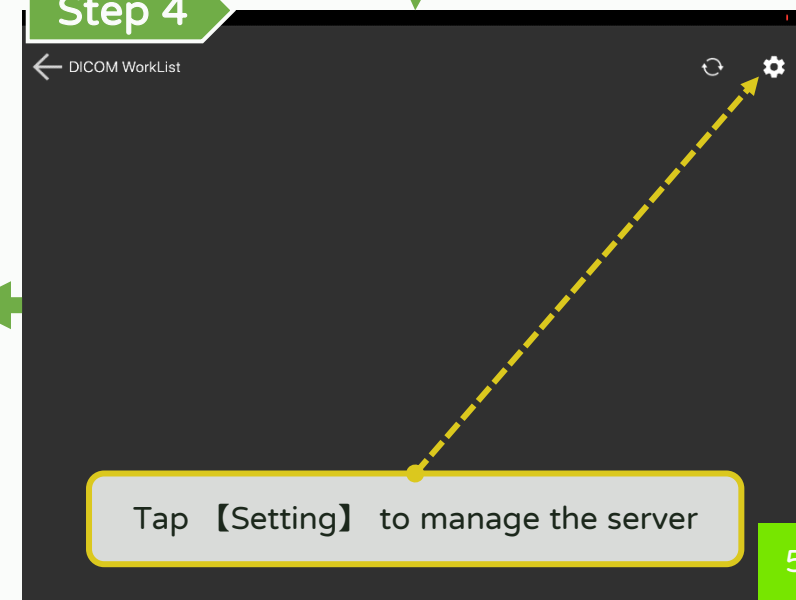
Step 6

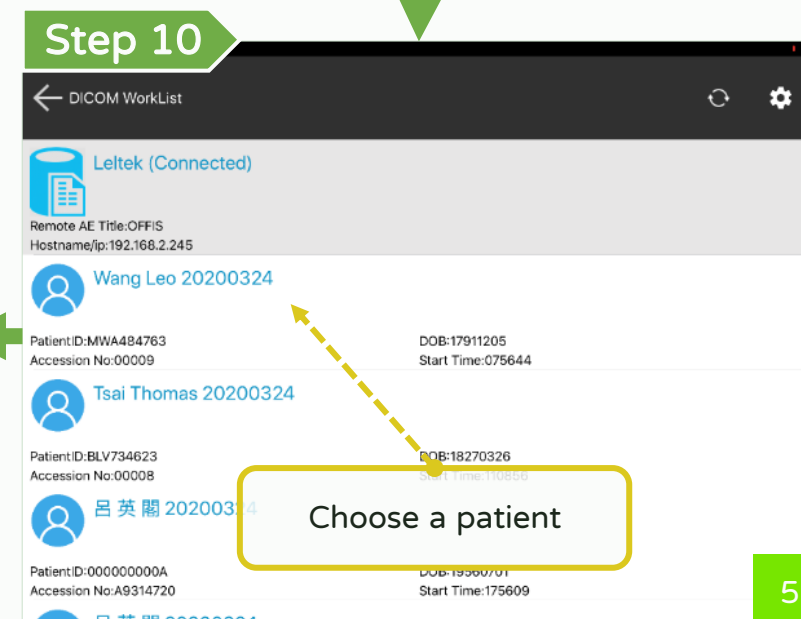
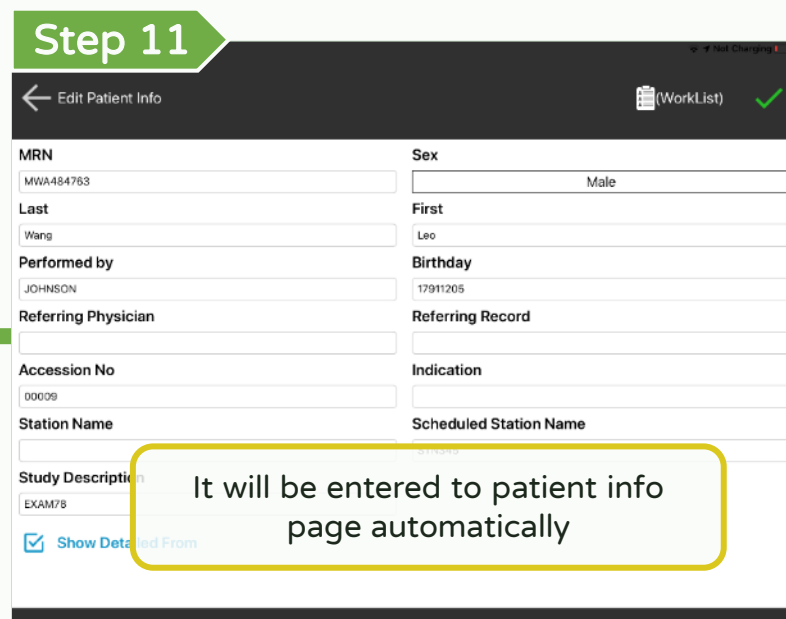
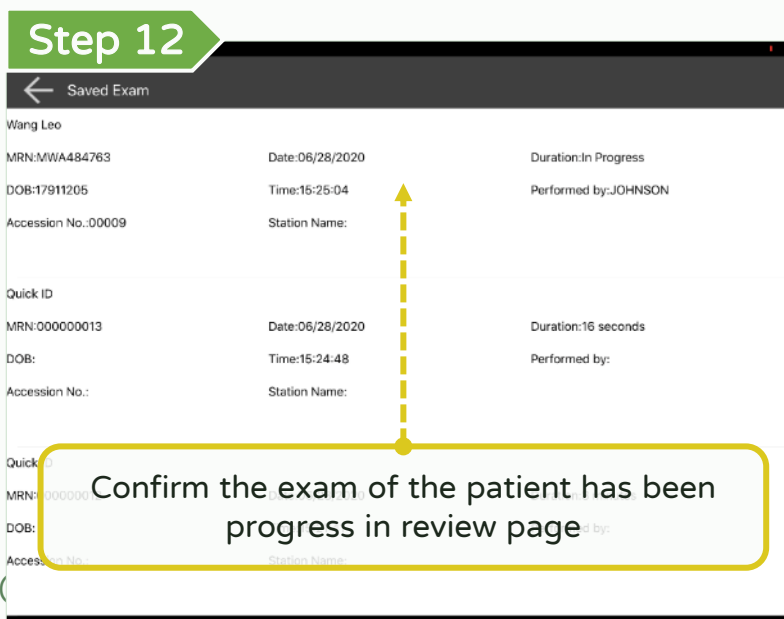
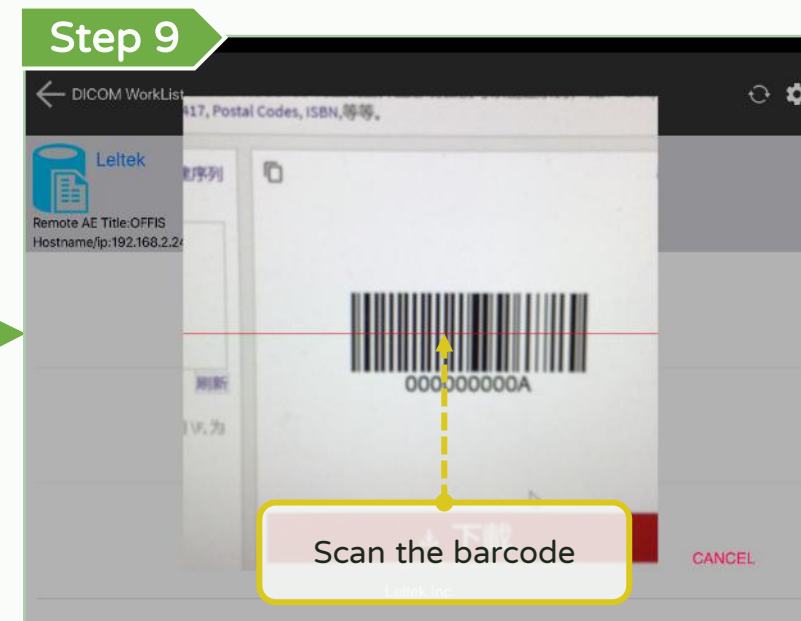
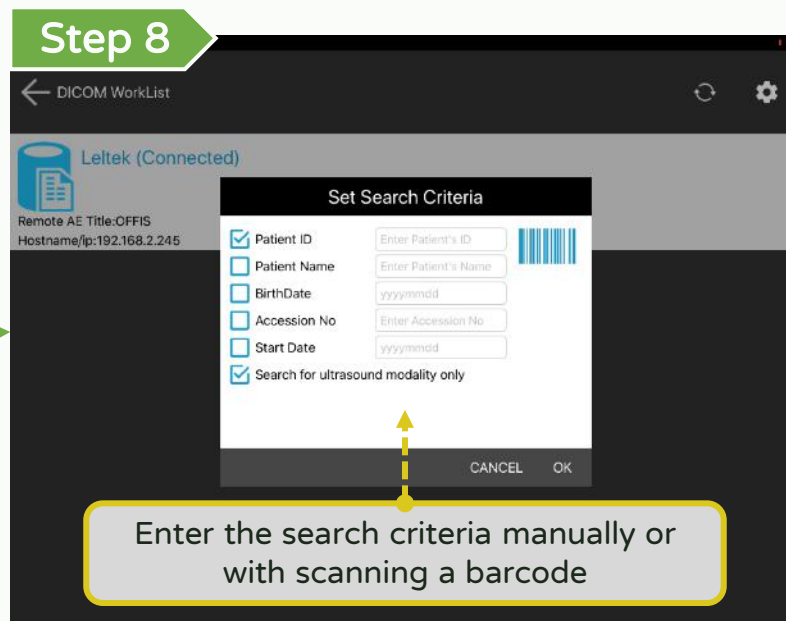
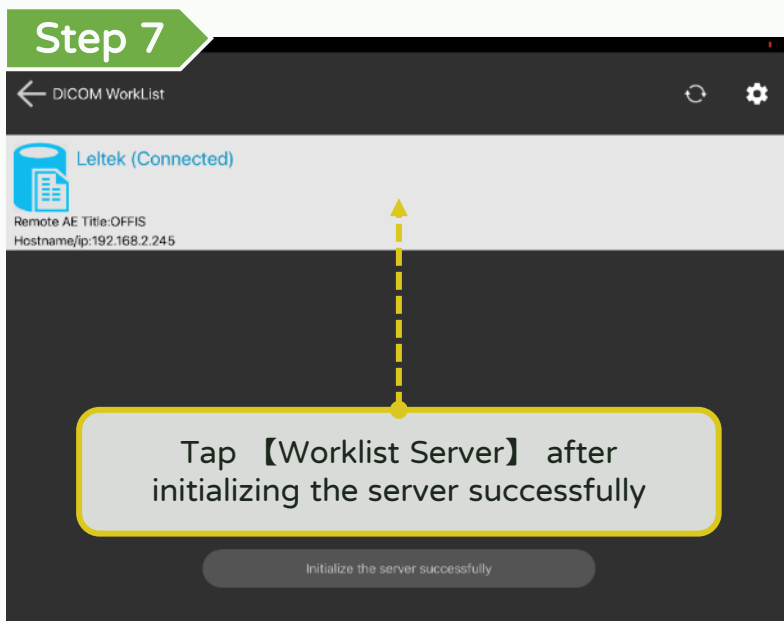


Step 5



Step 4



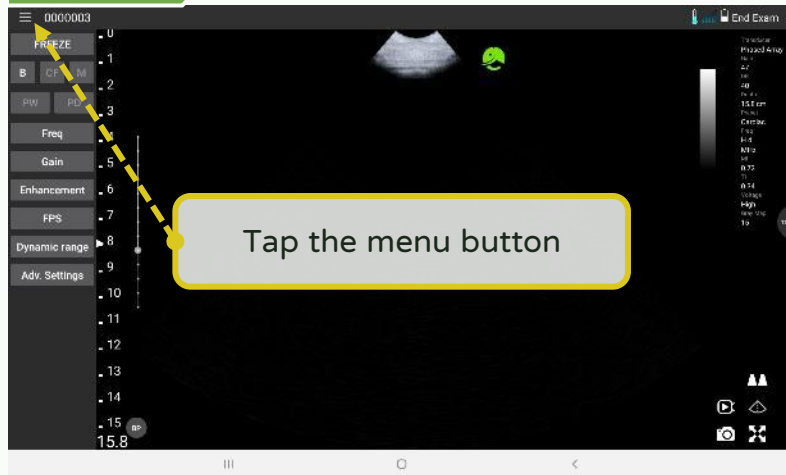


DICOM support - Make multi-frame DICOM

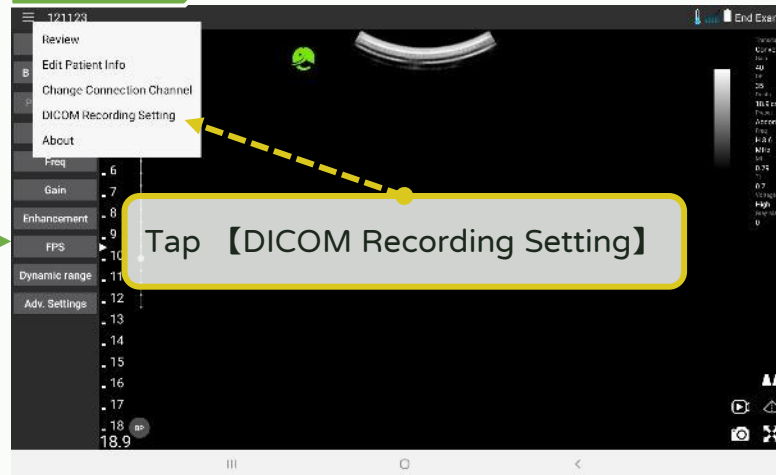
*Optional function

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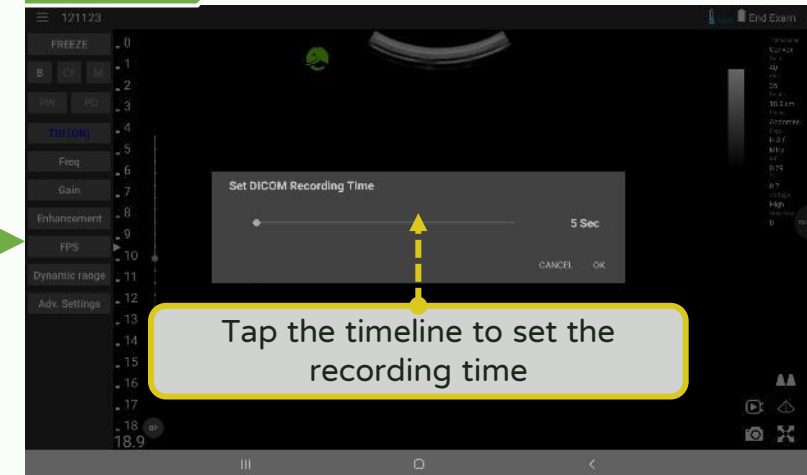
Step 1



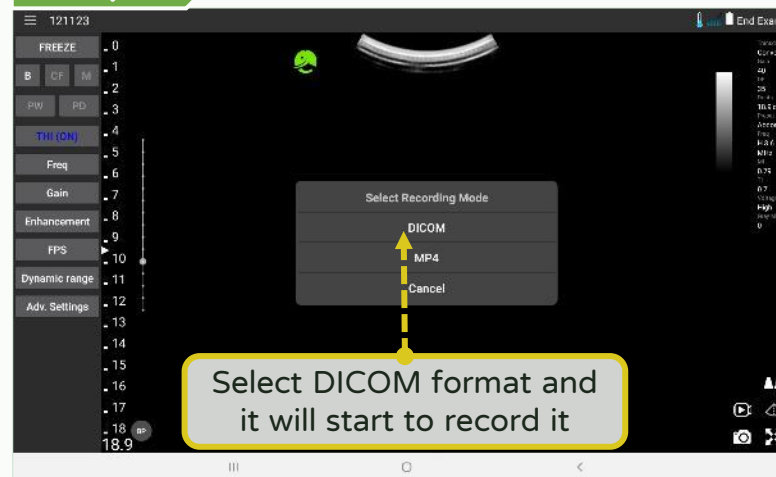
Step 2



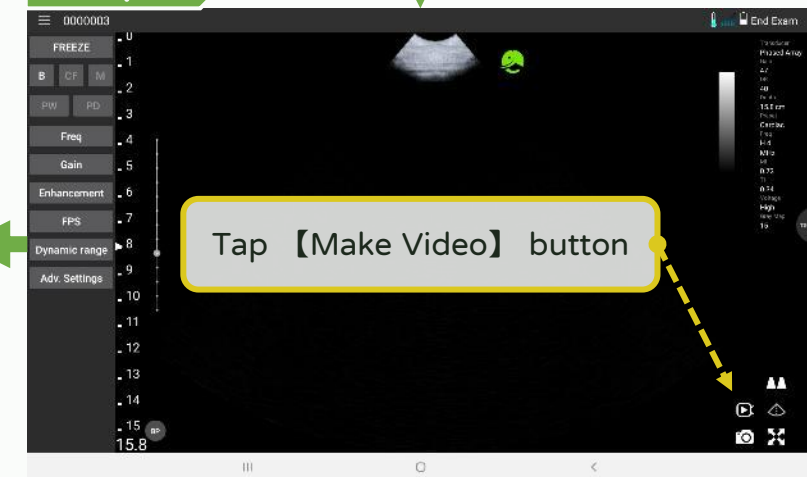
Step 3



Step 5

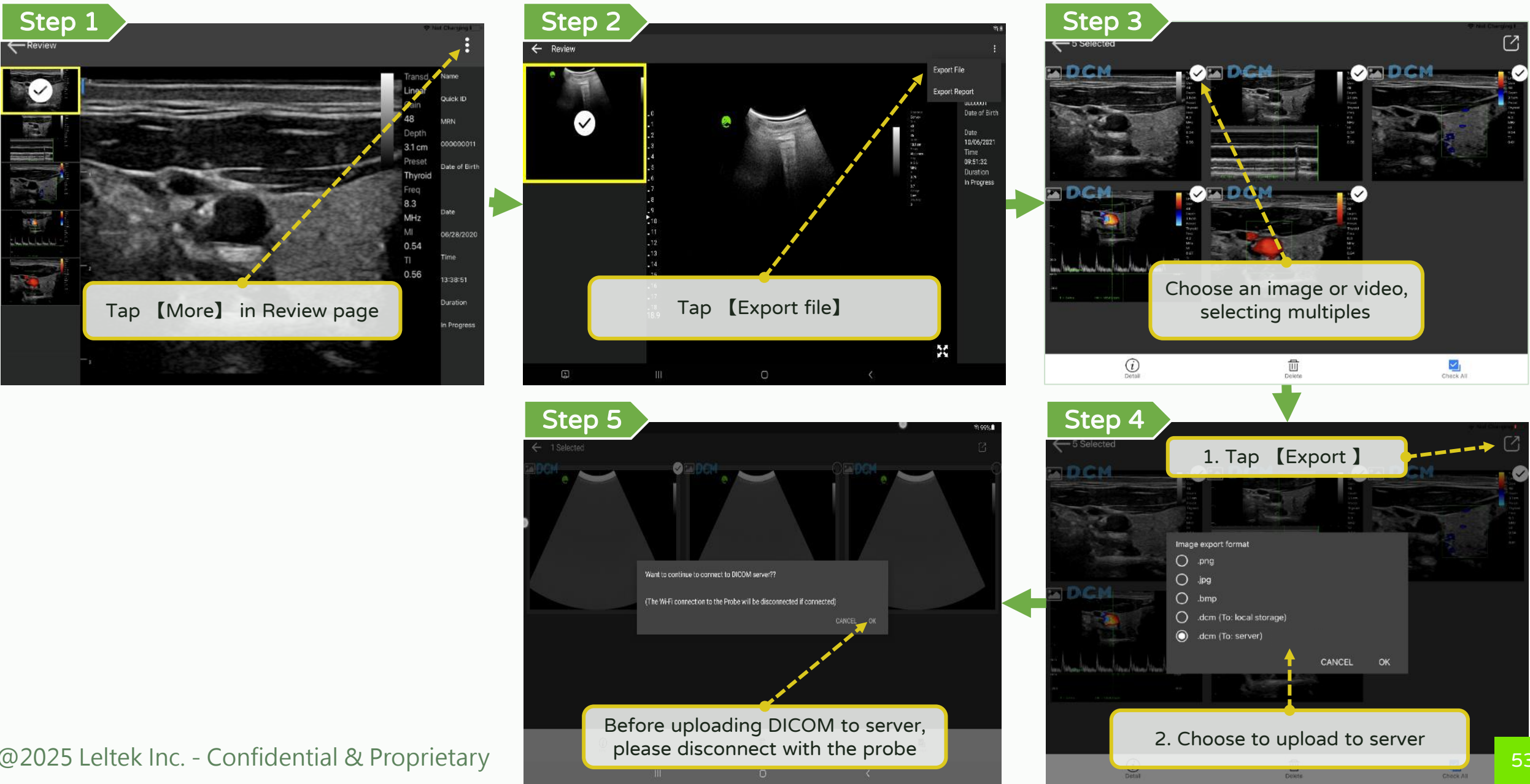


Step 4



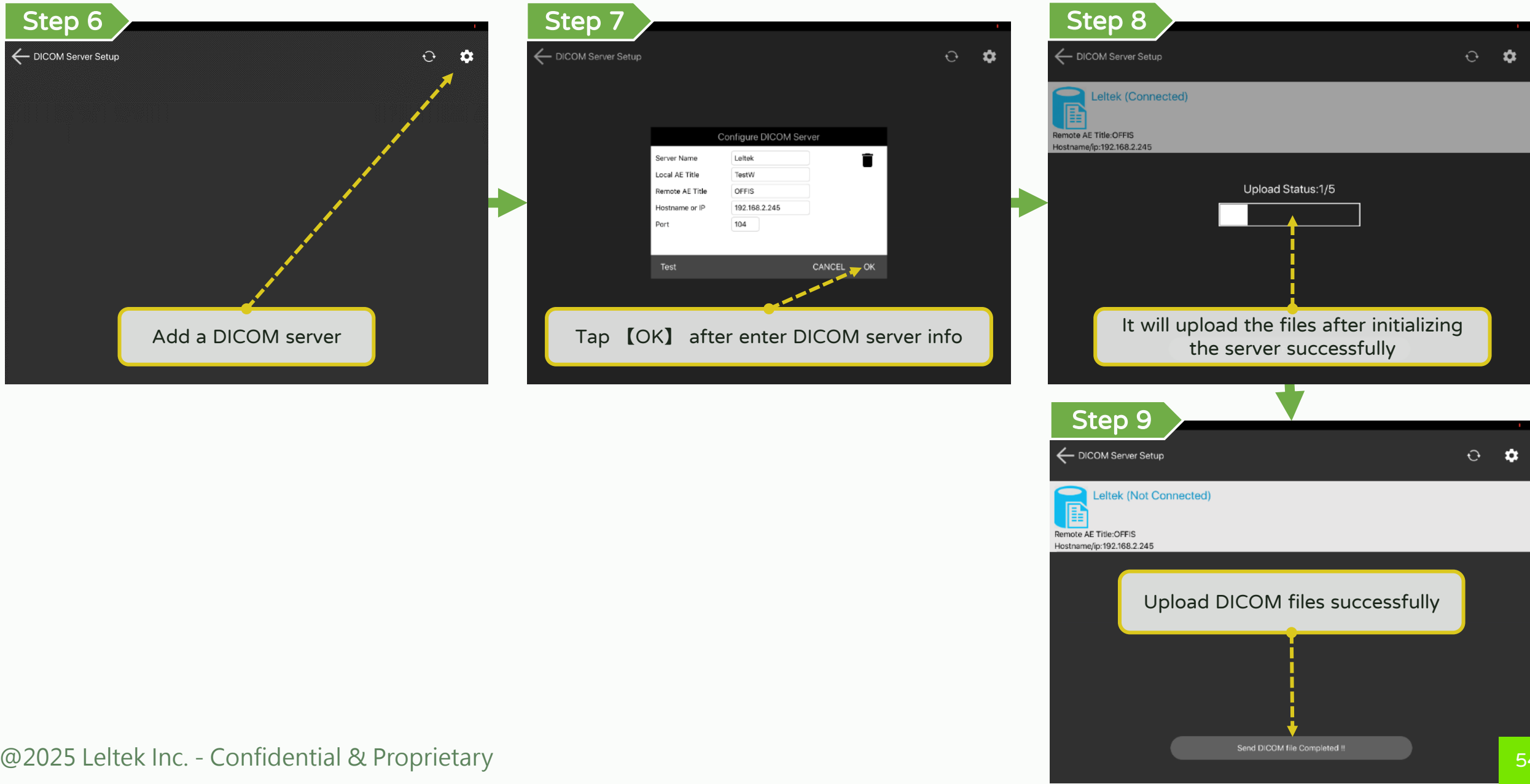
DICOM support - Upload DICOM file (1/2)

*Optional function **LEL TEK**



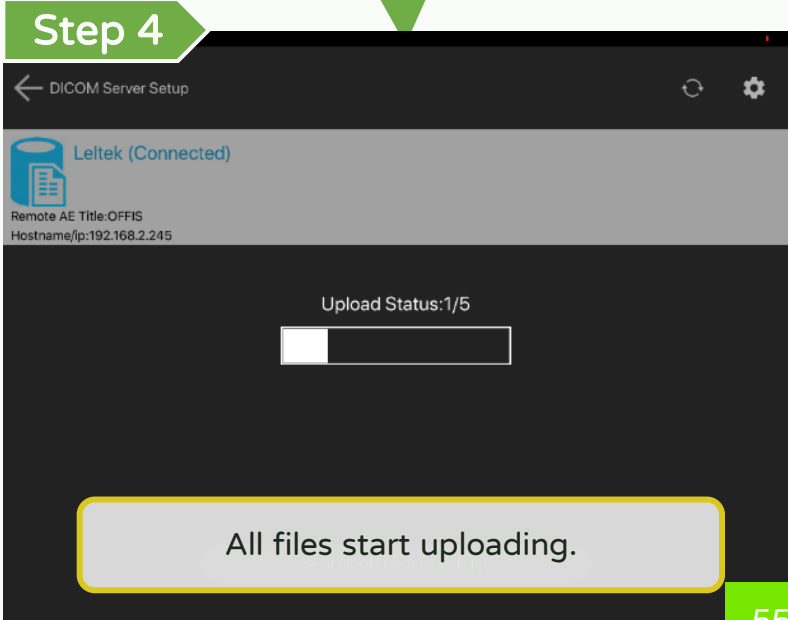
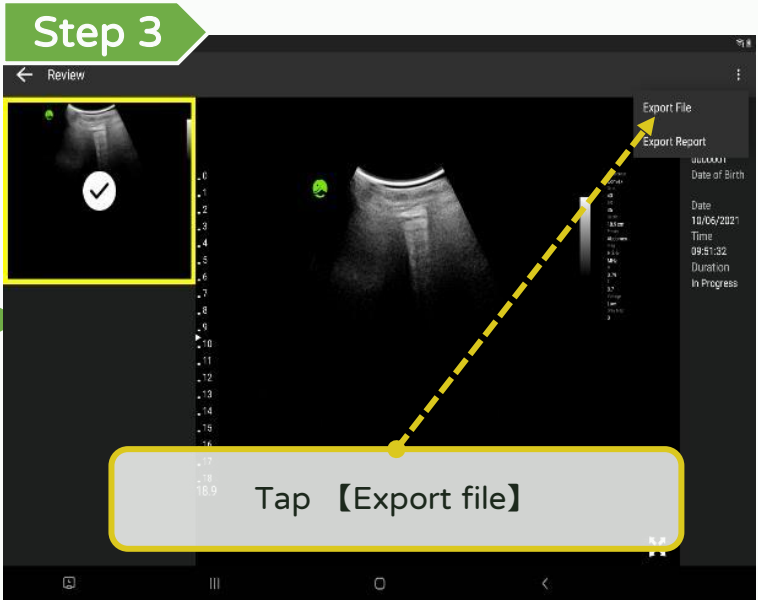
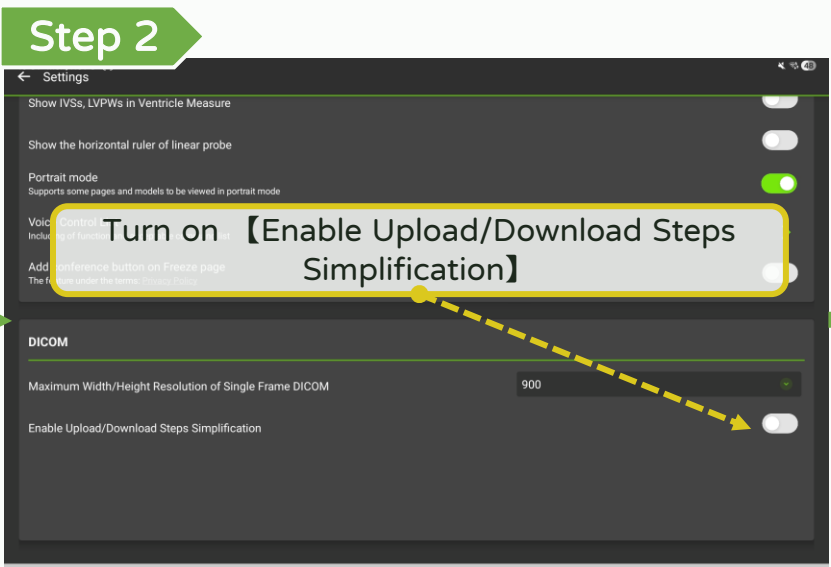
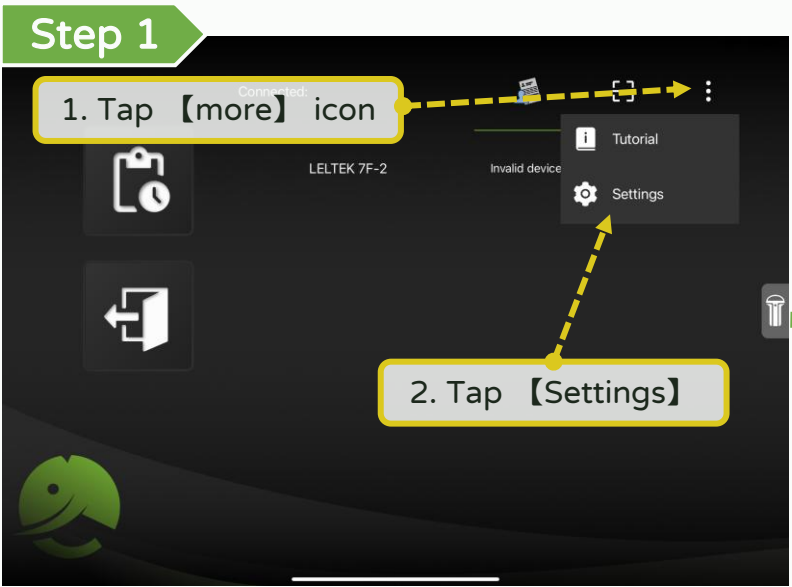
DICOM support - Upload DICOM file (2/2)

*Optional function **LEL TEK**



DICOM support – Fast DICOM file upload

*Optional function **LEL TEK**

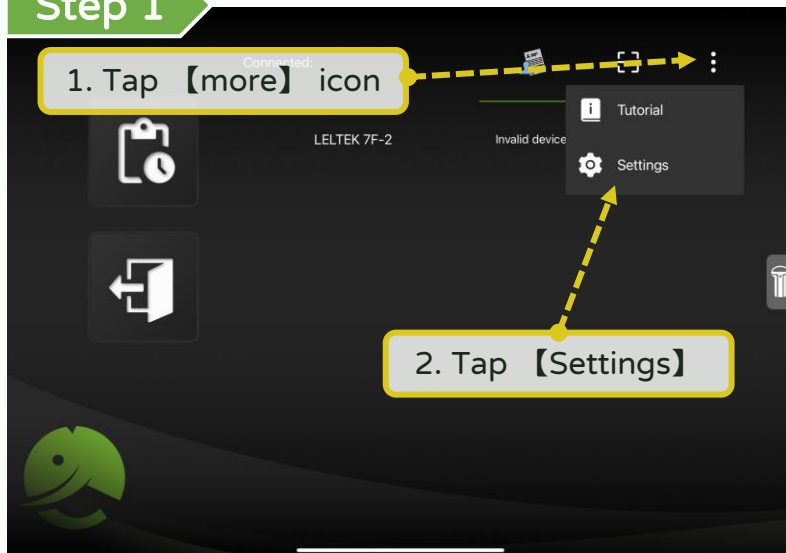


【 Run App on MAC M-series device】

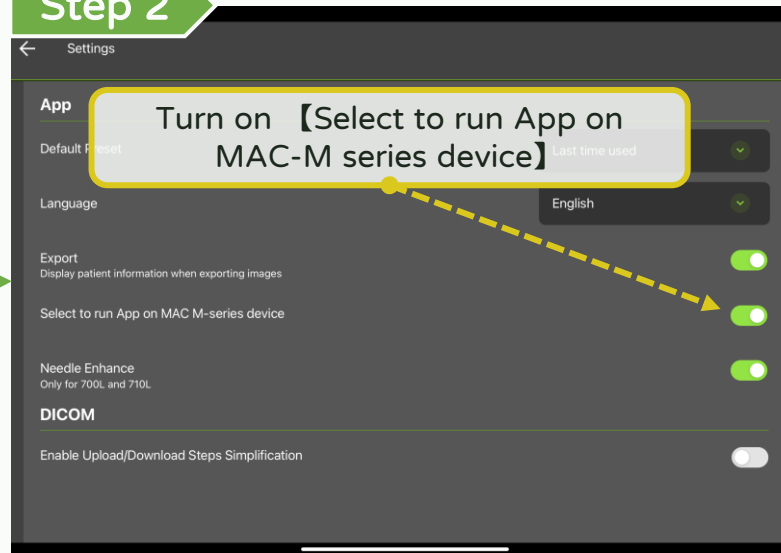
Run App on MAC M-series device

LEL TEK

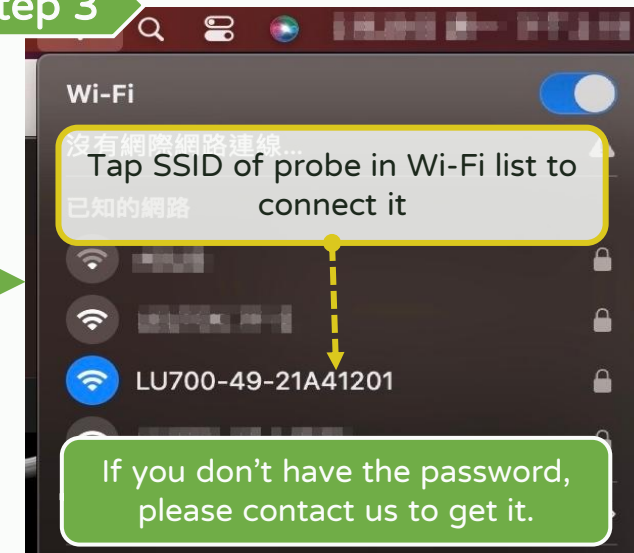
Step 1



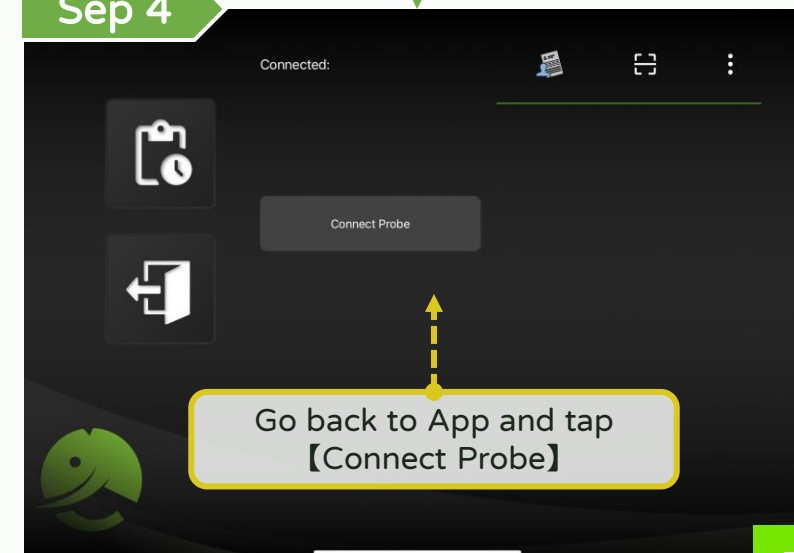
Step 2



Step 3



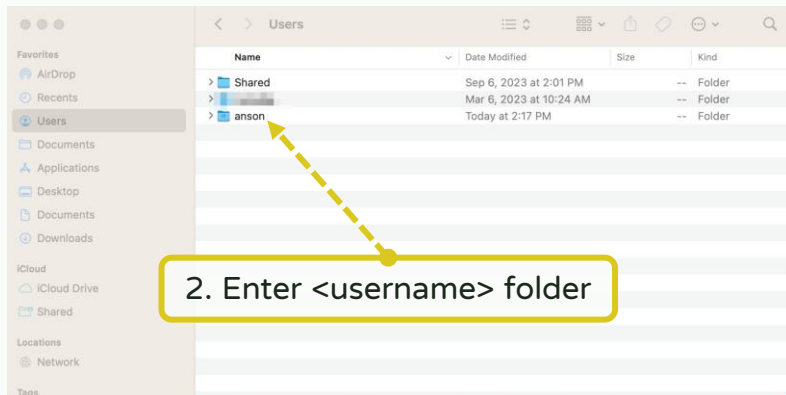
Sep 4



Find the images exported on MAC M-series device

Step 1

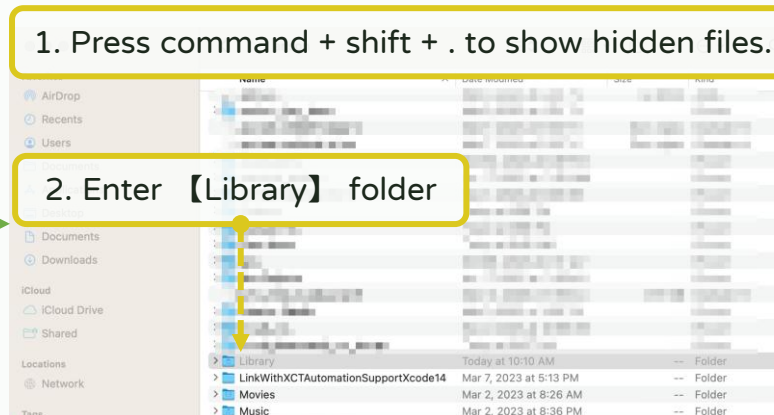
1. Turn on **Finder**



Step 2

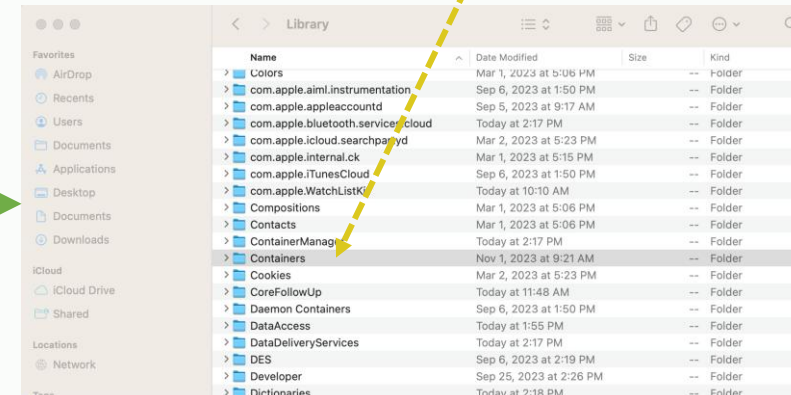
1. Press command + shift + . to show hidden files.

2. Enter **Library** folder

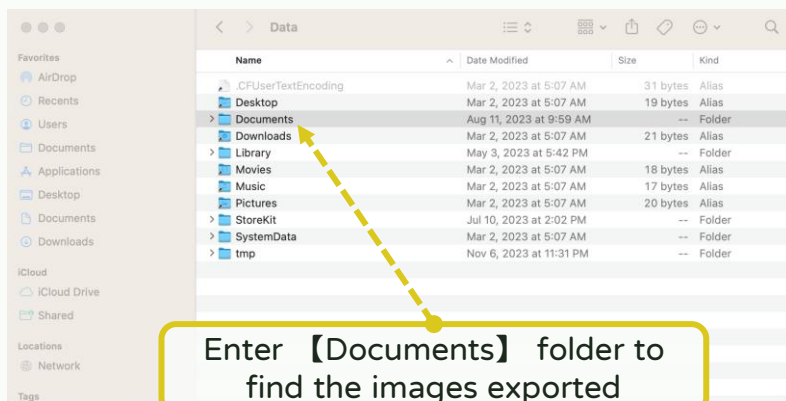


Step 3

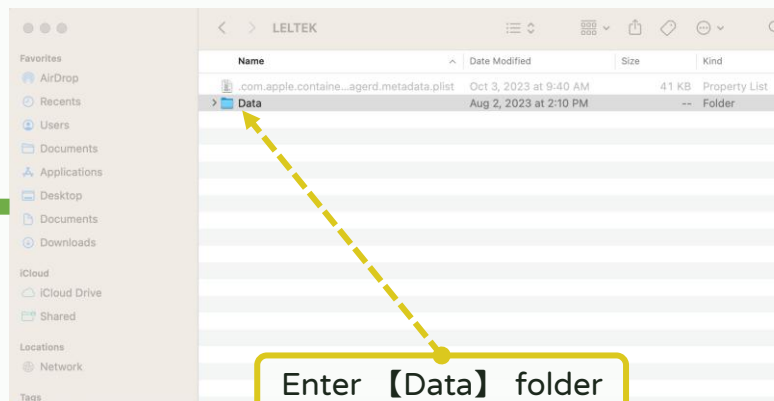
Enter **Containers** folder



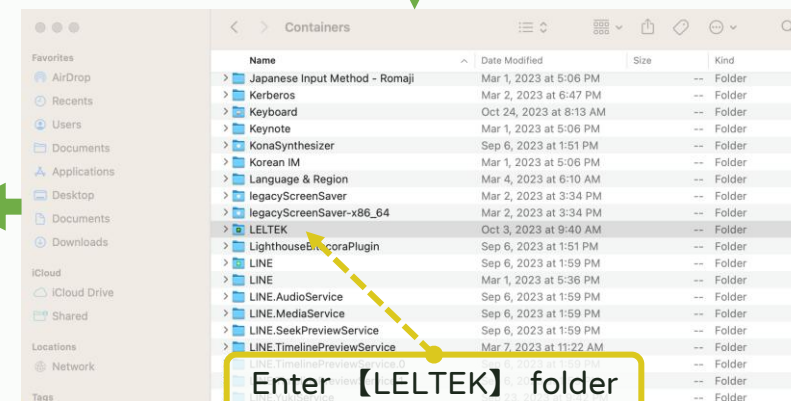
Step 6



Step 5

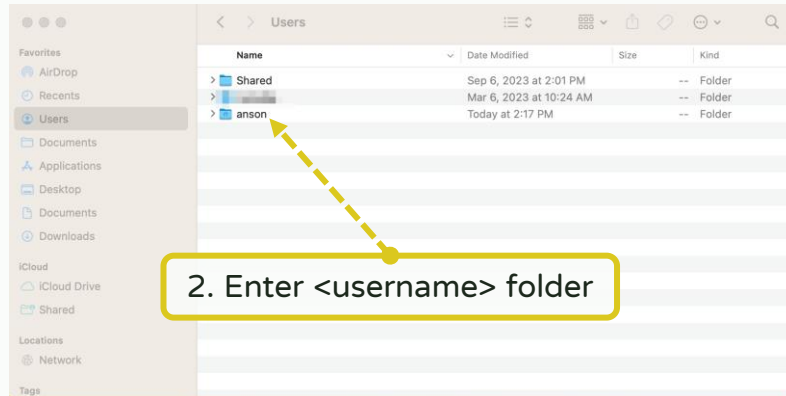


Step 4

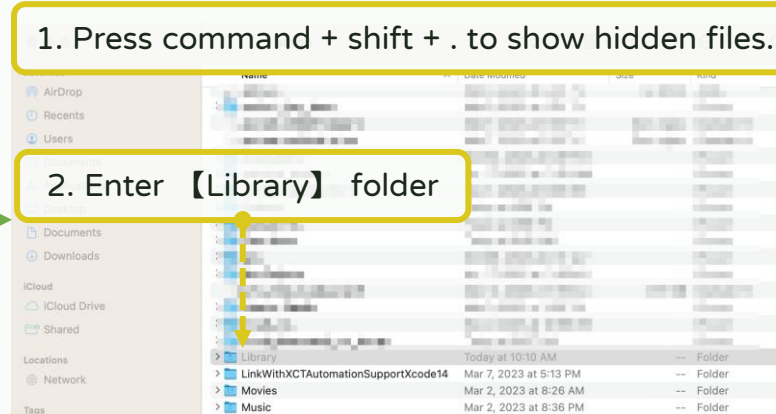


Create shortcut for the image exported folder on MAC M-series device

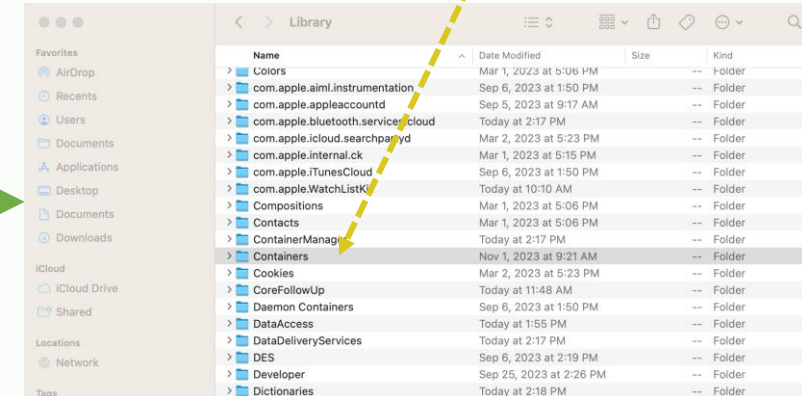
Step 1 1. Turn on 【Finder】



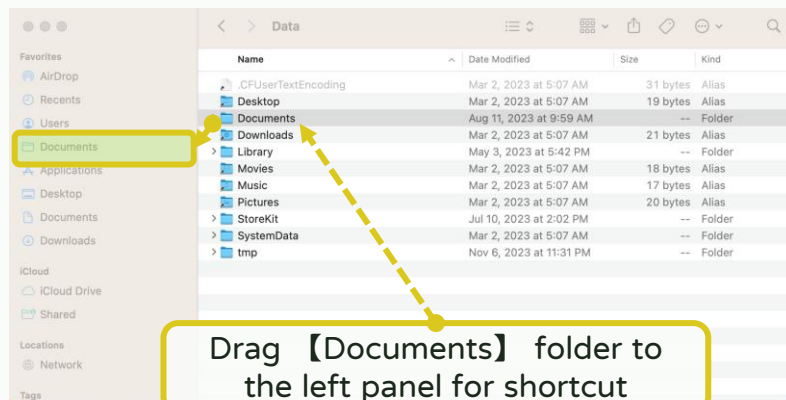
Step 2 1. Press command + shift + . to show hidden files. 2. Enter 【Library】 folder



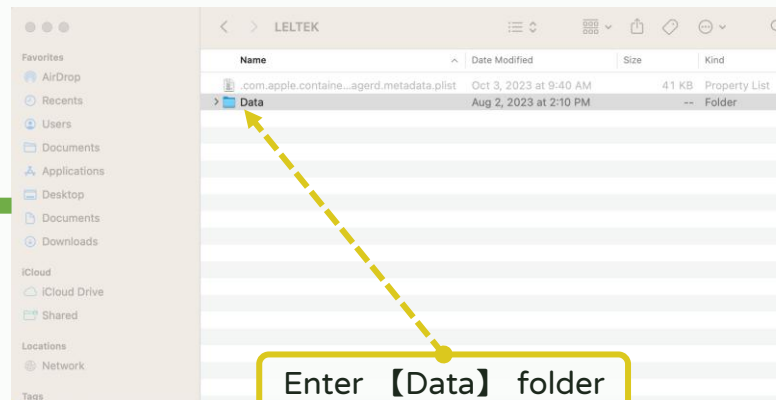
Step 3 Enter 【Containers】 folder



Step 6



Step 5



Step 4

