

# IBEX



## Wireless Ultrasound – Quick Guide

## 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: Press and hold the power button until the light turns purple.  
Turn off: Press and hold the power button until the light turns off.

## Power Button Indicator Light



### Lights Off

The device is powered off.



### Purple Light

The device is powered on but not connected.



### White Light

The device is powered on and connected via Wi-Fi.

## Battery Indicator Light

4 lights indicate full charge, 1 light indicates low battery



**Step 1**

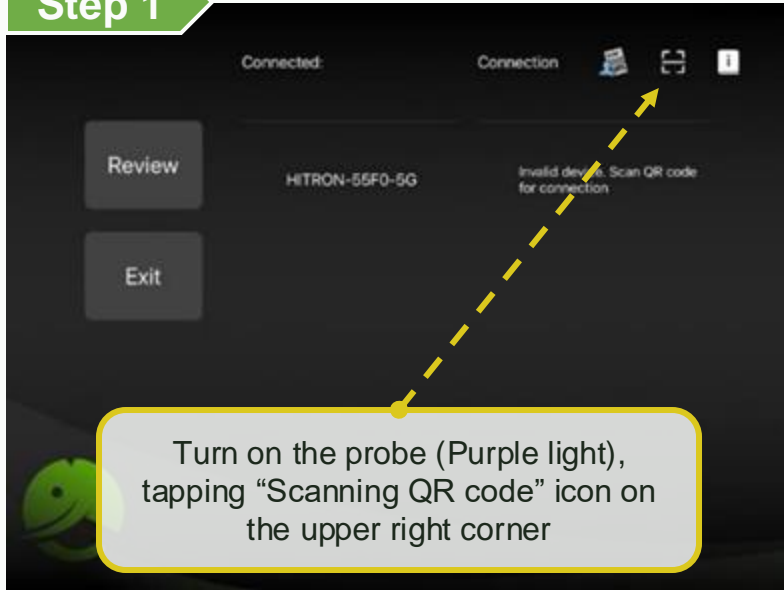
Turn on: Pressing the power button for 3 seconds

Turn off: Pressing the power button for 3 seconds

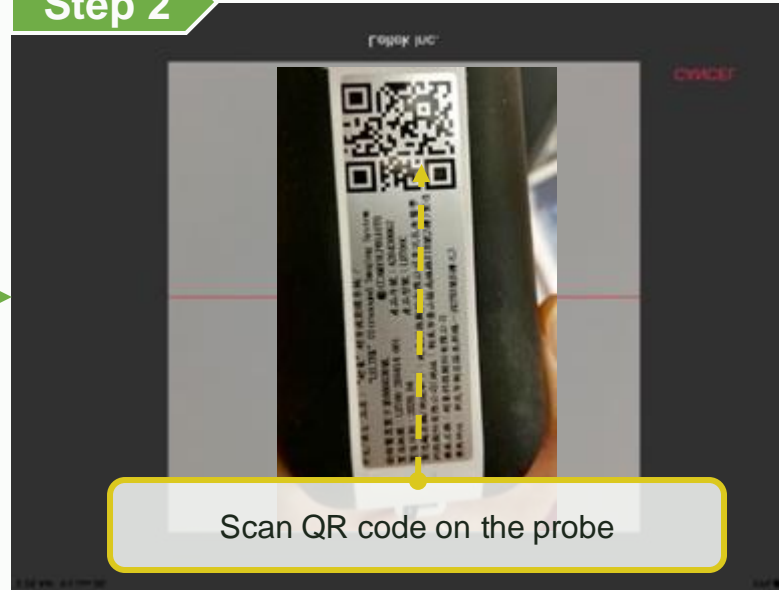
**Step 2**

			
<b>Blue light</b> <Charging>	<b>Lights out</b> <Power OFF>	<b>Purple light</b> <Power ON> Not connect	<b>White light</b> <Power ON> Connected

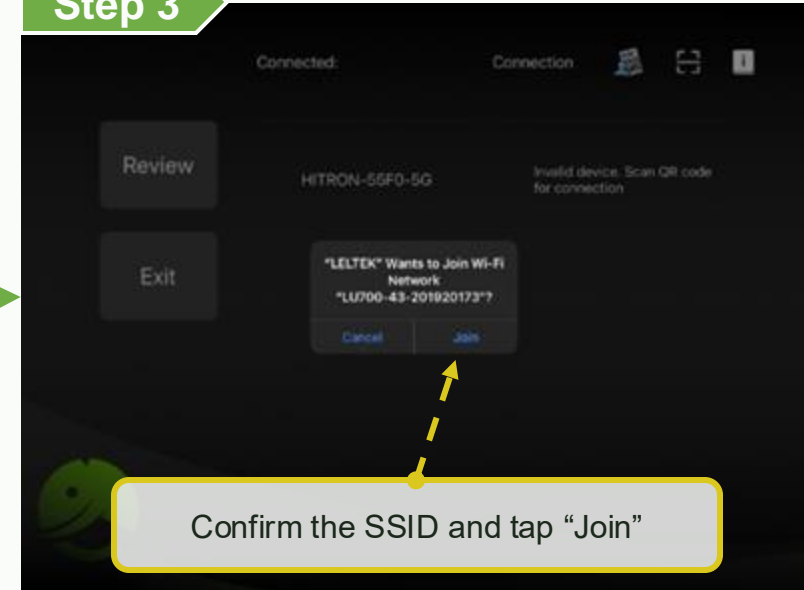
## Step 1



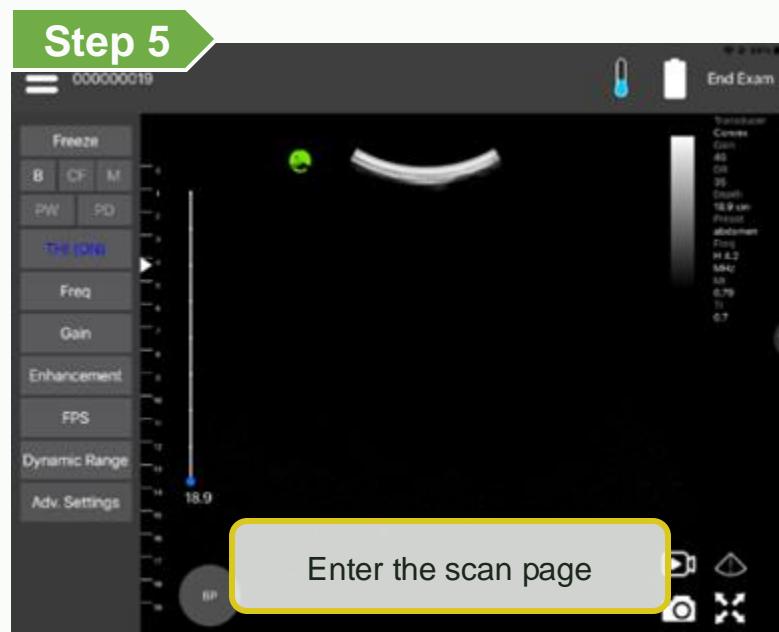
## Step 2



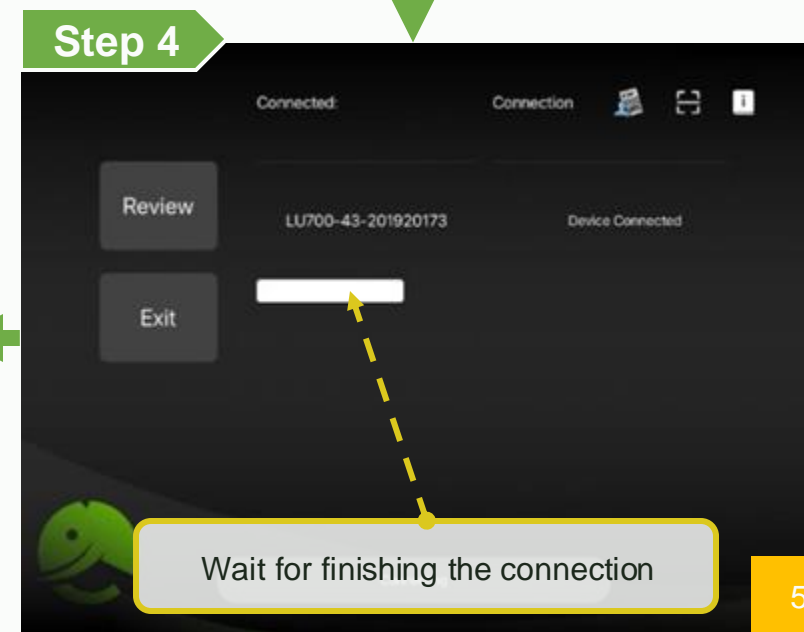
## Step 3



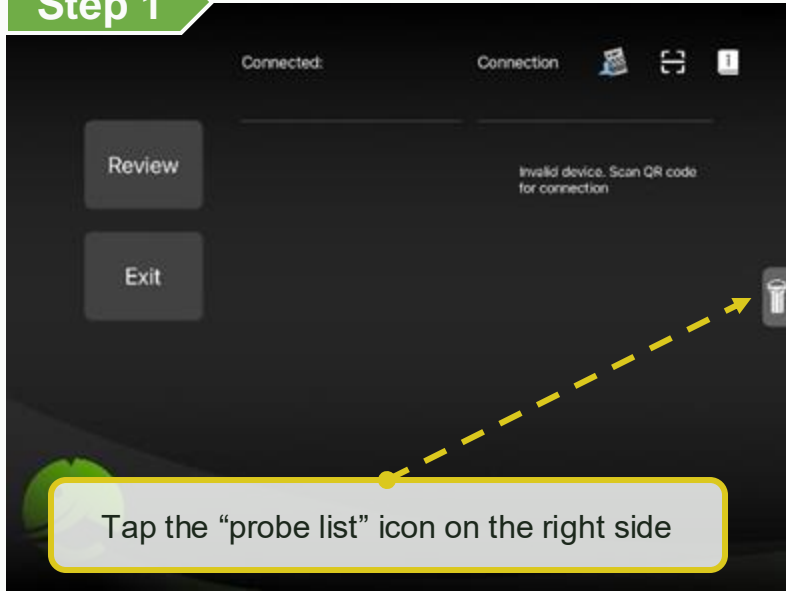
## Step 5



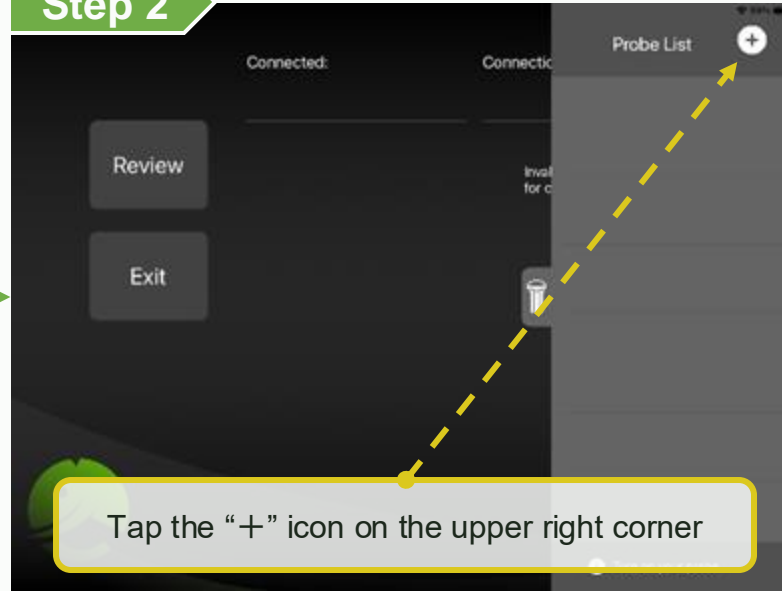
## Step 4



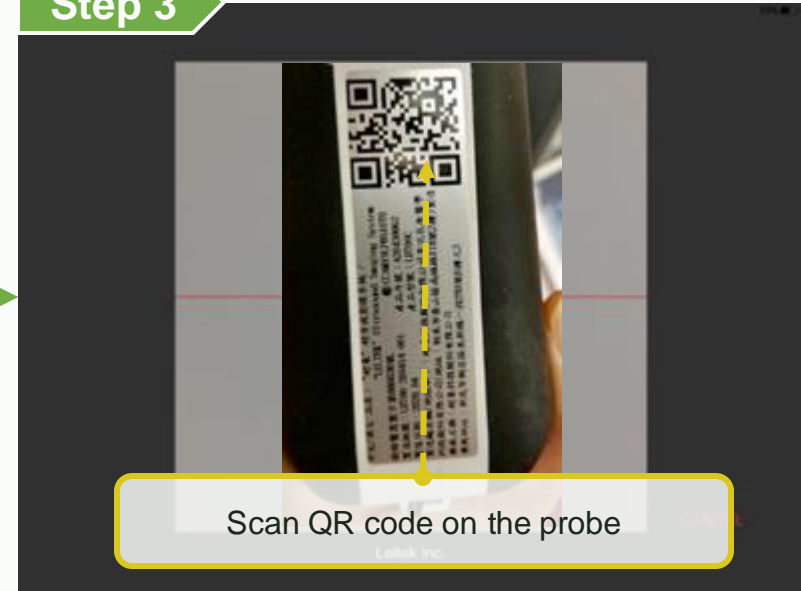
## Step 1



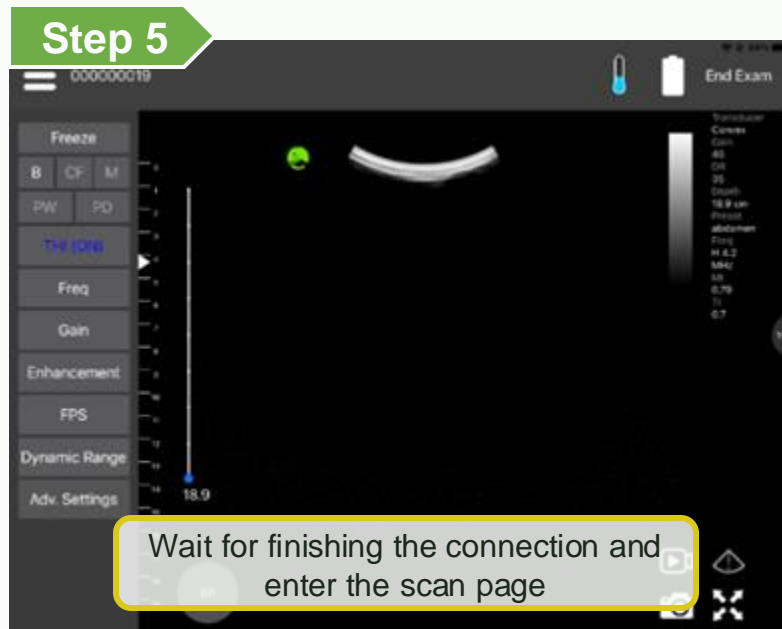
## Step 2



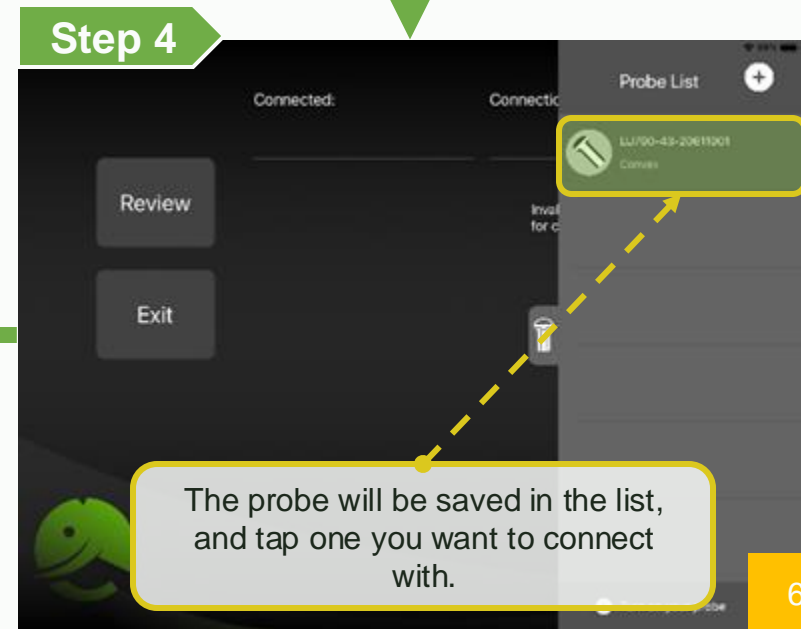
## Step 3



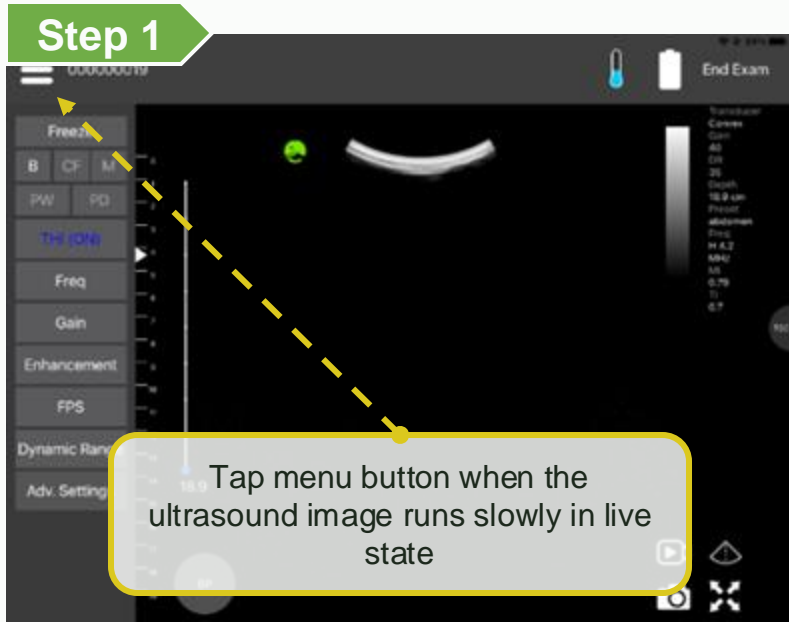
## Step 5



## Step 4

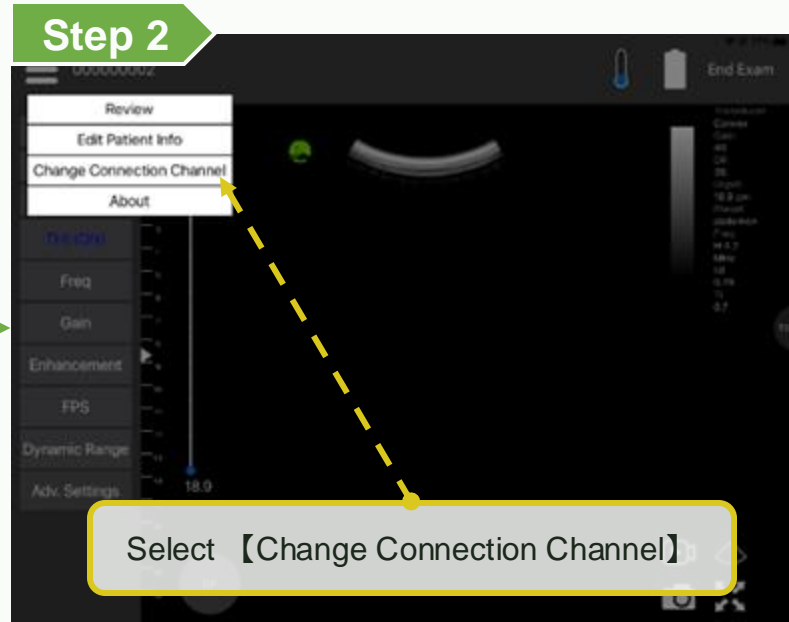


**Step 1**




Tap menu button when the ultrasound image runs slowly in live state

**Step 2**



Select **【Change Connection Channel】**

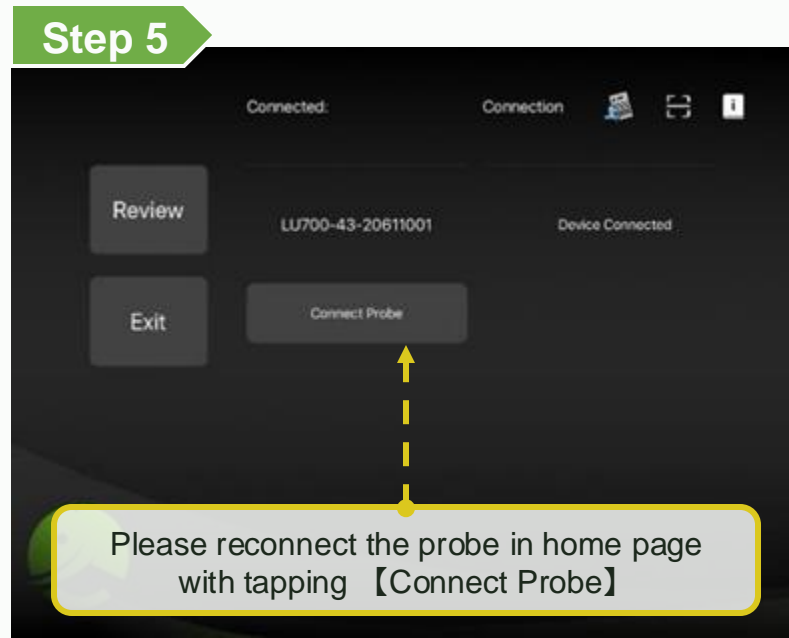
**Step 3**



Tap **【Yes】** to change the connection channel

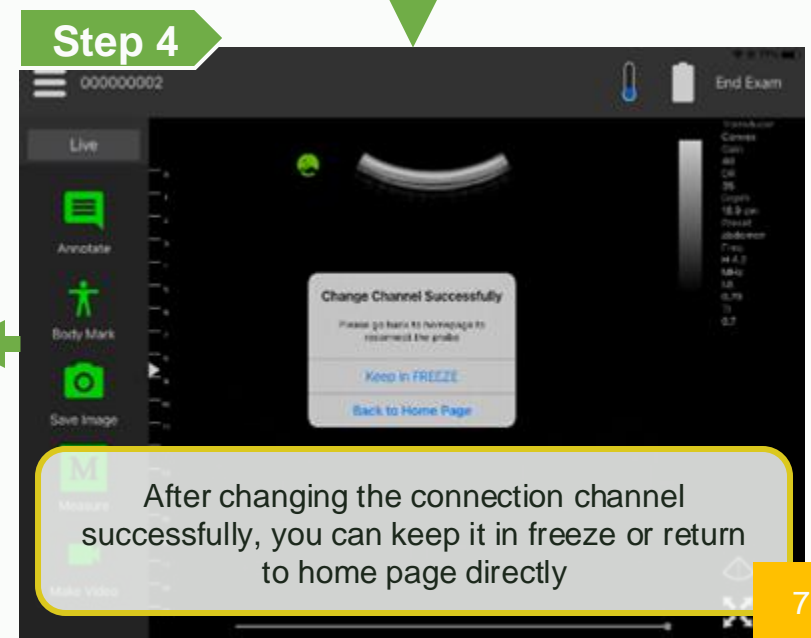
If the ultrasound image still runs slowly, please repeat the steps above

**Step 5**



Please reconnect the probe in home page with tapping **【Connect Probe】**

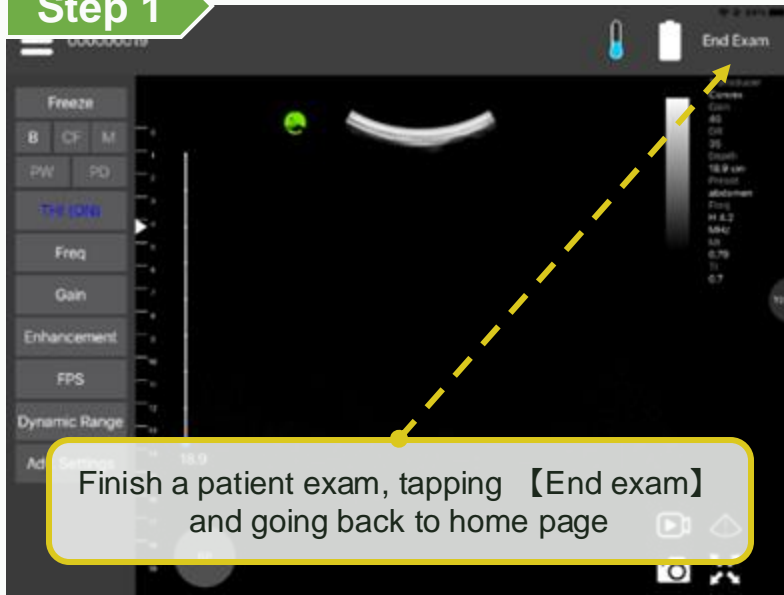
**Step 4**



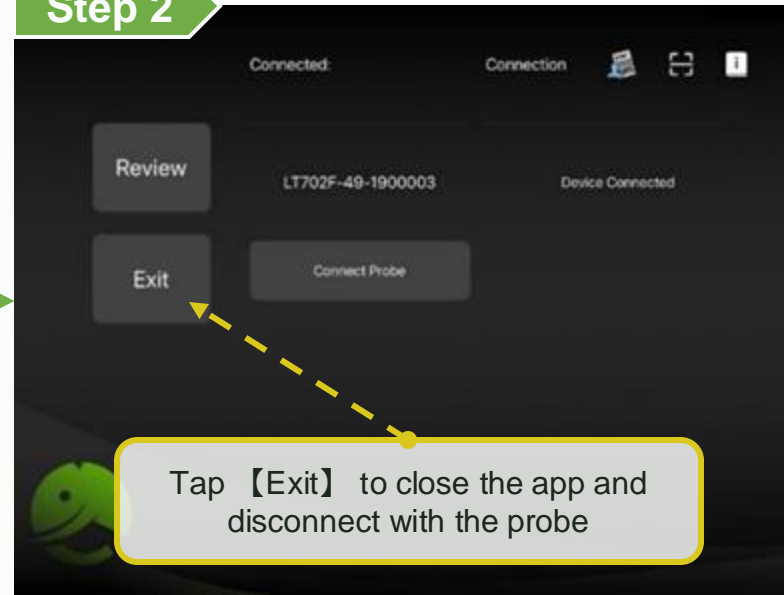
After changing the connection channel successfully, you can keep it in freeze or return to home page directly



## Step 1



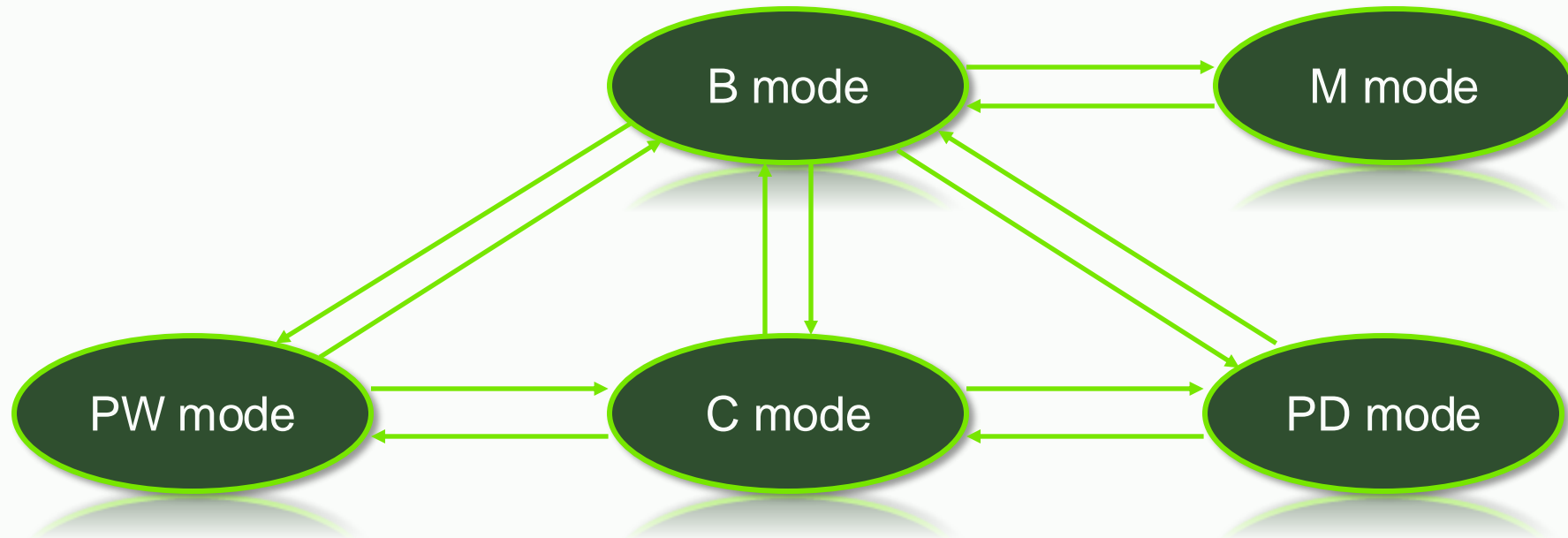
## Step 2



**【Scan】**

The image shows a medical ultrasound interface with various controls and annotations. The interface is divided into several sections:

- MRN:** 000000019
- Review, export:** Menu icon
- Probe info:** Temperature and battery icons
- End exam:** End Exam button
- Freeze / Live:** Freeze button
- Select Mode:** B, CF, M, PW, PD buttons
- Adjust parameter:** THI (ON), Freq, Gain, Enhancement, FPS, Dynamic Range, Adv. Settings buttons
- Adjust depth:** Depth slider (18.9 cm)
- Select preset:** BP button
- Scan Info:** Transducer Convex, Gain 40, DR 35, Depth 18.9 cm, Preset abdomen, Freq H 4.2 MHz, MI 0.79, TI 0.7
- Adjust TGC:** TGC button
- Dual screen, Auto IQ, Save image and video, center line, full screen:** A, Video, Camera, and Full Screen icons



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

**Step 1**

The default is B mode

**Step 2**

Change the parameters to adjust the image

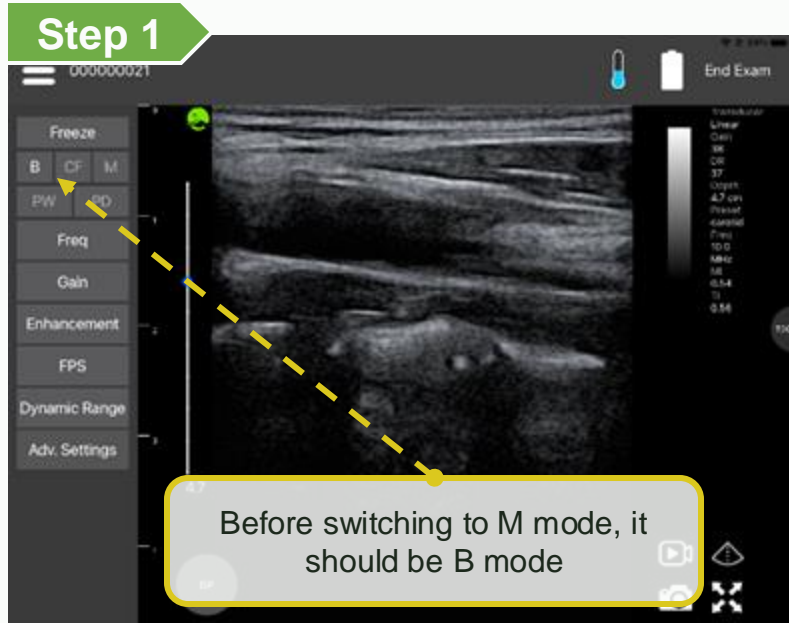
There are 8 sliders to adjust TGC

**Step 3**

1. Tap [Freeze] to stop scan

2. Drag the bar to review the history images

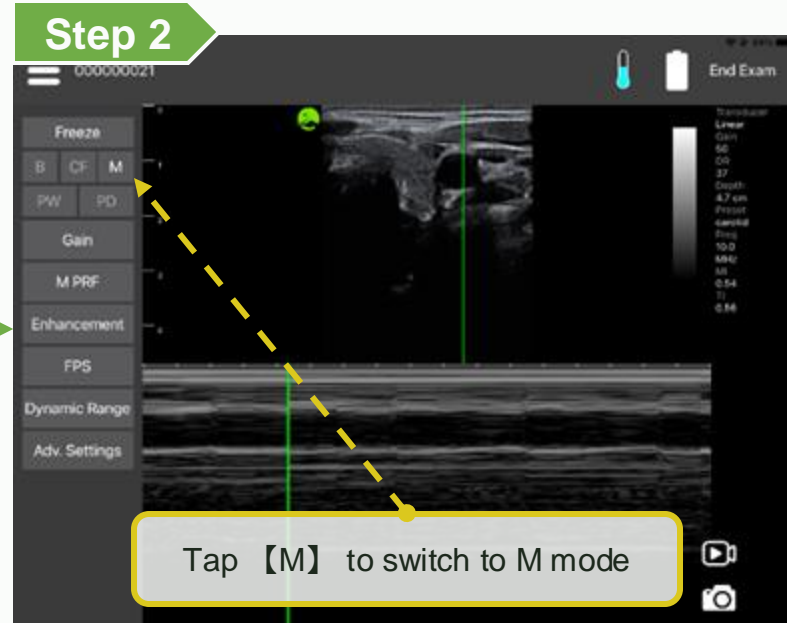
### Step 1



Before switching to M mode, it should be B mode

The screenshot shows the ultrasound interface in B mode. The left sidebar contains controls for Freeze, B, CF, M, PW, PD, Freq, Gain, Enhancement, FPS, Dynamic Range, and Adv. Settings. The main display shows a B-mode image of a vessel. A yellow dashed arrow points from the 'M' button in the sidebar to a yellow callout box at the bottom.

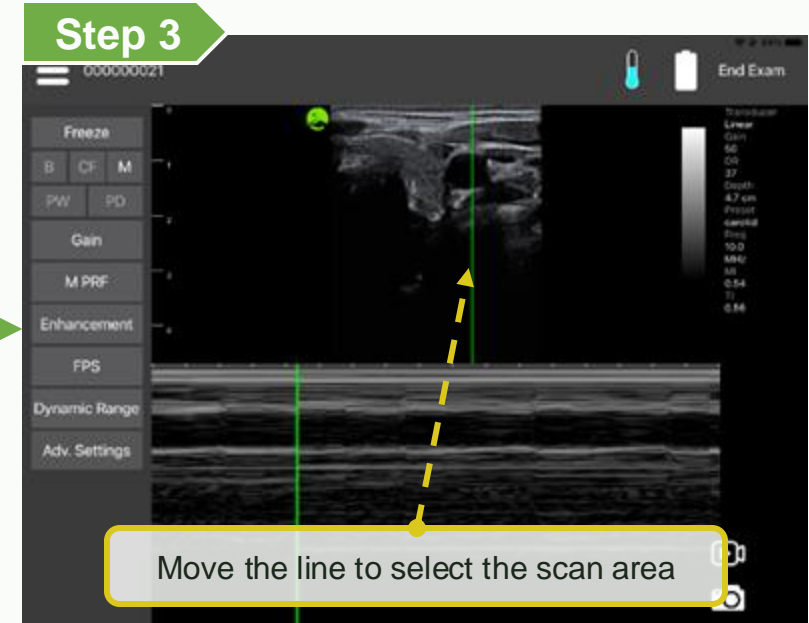
### Step 2



Tap **[M]** to switch to M mode

The screenshot shows the ultrasound interface with the 'M' button highlighted in the left sidebar. A yellow dashed arrow points from the 'M' button to a yellow callout box at the bottom. The main display shows the same B-mode image with a green vertical line indicating the start of the M-mode scan.

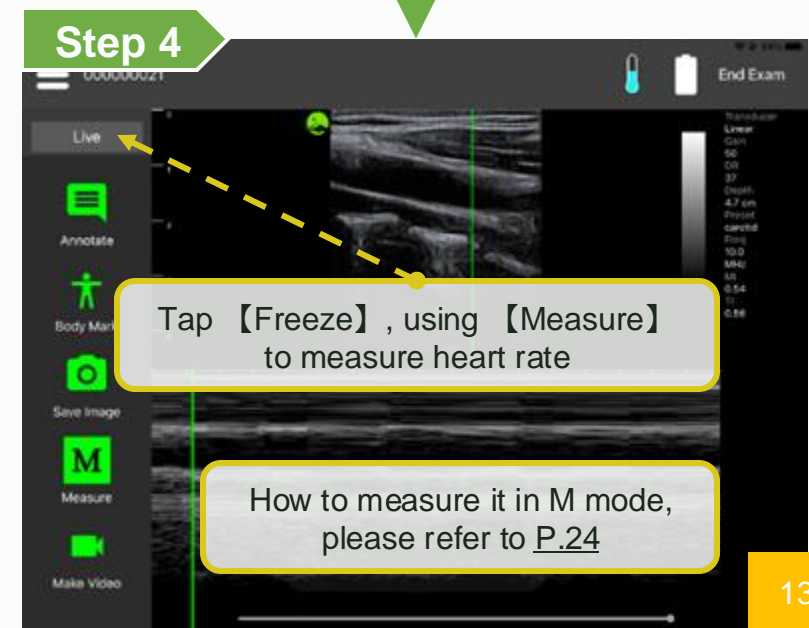
### Step 3



Move the line to select the scan area

The screenshot shows the ultrasound interface with the green vertical line moved to a different position on the B-mode image. A yellow dashed arrow points from the line to a yellow callout box at the bottom. The main display shows the B-mode image with the green vertical line.

### Step 4



Tap **[Freeze]**, using **[Measure]** to measure heart rate

How to measure it in M mode, please refer to [P.24](#)

The screenshot shows the ultrasound interface with the M-mode image displayed. The left sidebar now includes 'Live', 'Annotate', 'Body Mark', 'Save Image', 'M' (Measure), and 'Make Video'. A yellow dashed arrow points from the 'M' button to a yellow callout box at the bottom. The main display shows the M-mode image with a green vertical line.

The diagram illustrates the process of switching to Color Flow (CF) mode and adjusting parameters in three steps:

- Step 1:** Tap **【CF】** to switch to CF mode. The interface shows the 'CF' button highlighted in the top left menu.
- Step 2:** Change the parameters to adjust the image. A list of parameters (Gain, Color PRF, Color Gain, Steering Angle, Color Wall Filter, Color Threshold, Adv. Settings) is shown on the left side of the screen.
- Step 3:** Tap **【Freeze】** to stop scan. Drag the bar to review the history images. The 'Freeze' button is highlighted in the top left menu, and a horizontal bar at the bottom is used to navigate through a history of images.

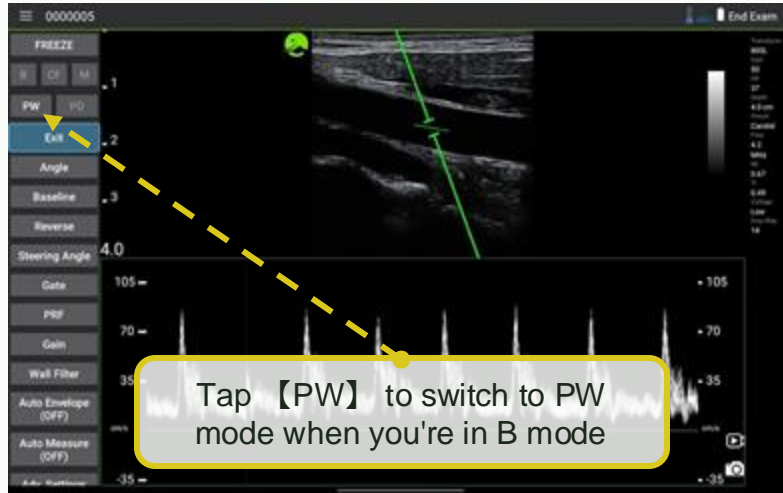


# Scan - PW (Pulse Wave) mode without color

\*Optional function

E.I. MEDICAL IMAGING

## Step 1



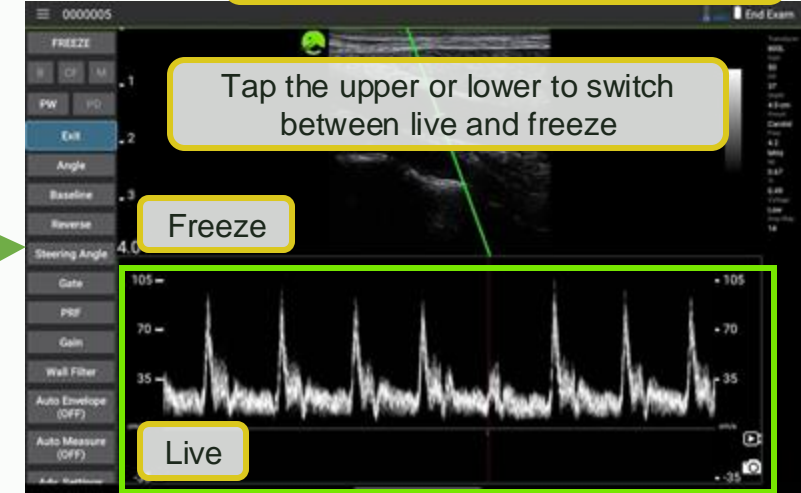
## Step 2

The live image will be highlighted with a green frame



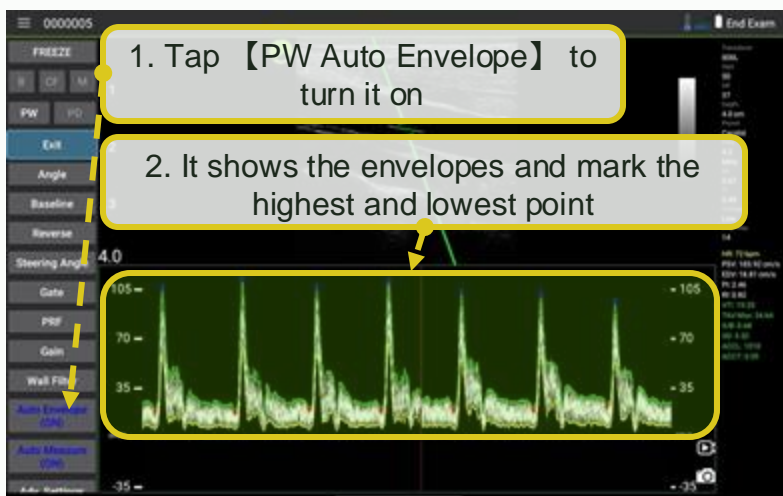
## Step 3

The live image will be highlighted with a green frame



Tap the upper or lower to switch between live and freeze

## Step 6

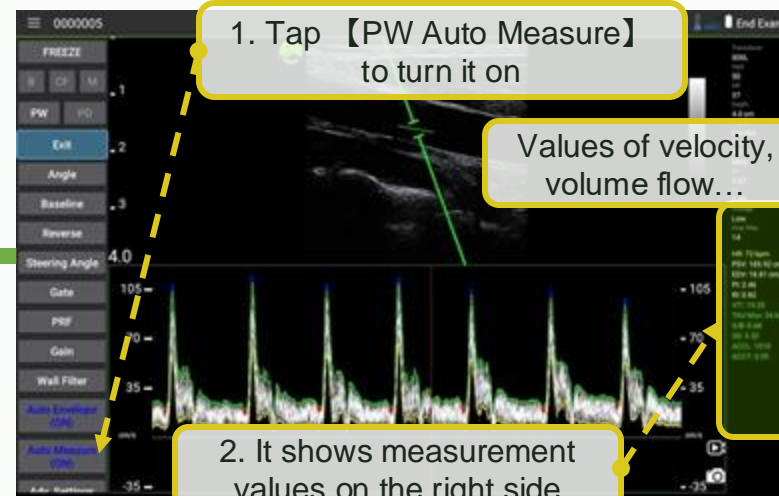


## Step 5

1. Tap **【PW Auto Measure】** to turn it on

Values of velocity, volume flow...

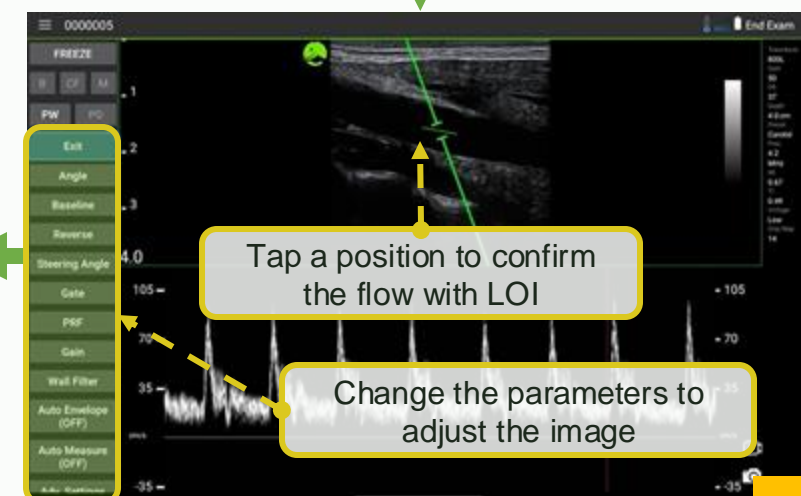
2. It shows measurement values on the right side



## Step 4

Tap a position to confirm the flow with LOI

Change the parameters to adjust the image





# Scan - PW (Pulse Wave) mode with color

\*Optional function

E.I. MEDICAL IMAGING

### Step 1

Before switching to PW mode, it should be CF mode

### Step 2

1. Tap **【PW】** to switch to Pre-PW mode
2. Tap a position to confirm the flow with LOI
3. Tap **【PW Enter】**

### Step 3

Tap a position to confirm the flow with LOI

Change the parameters to adjust the image

### Step 6

Tap **【Freeze】**, using **【Measure】** to measure velocity, RI, S/D...etc.

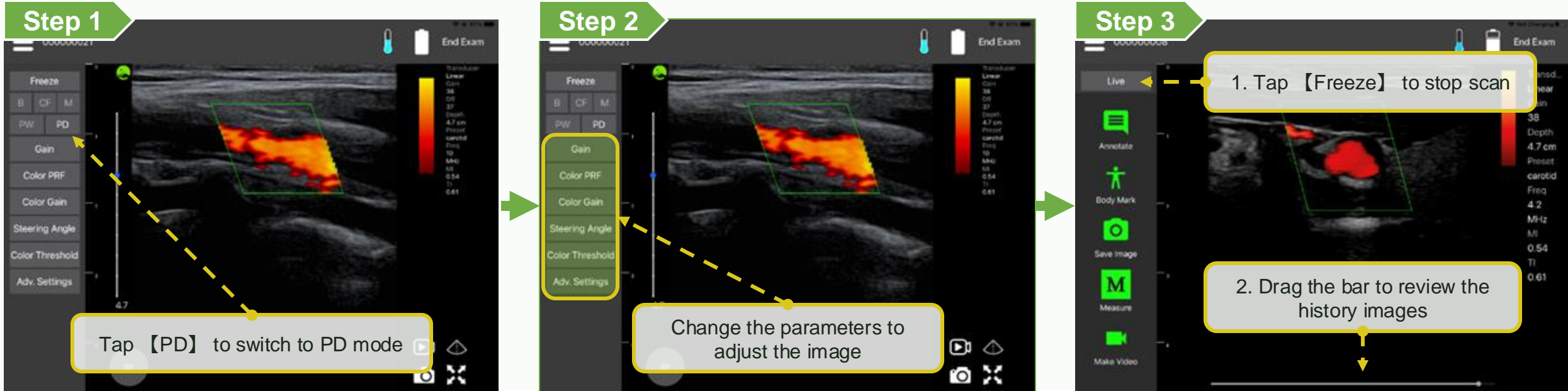
### Step 5

1. Tap **【PW Auto Envelope】** to turn it on
2. It shows the envelopes and mark the highest and lowest point

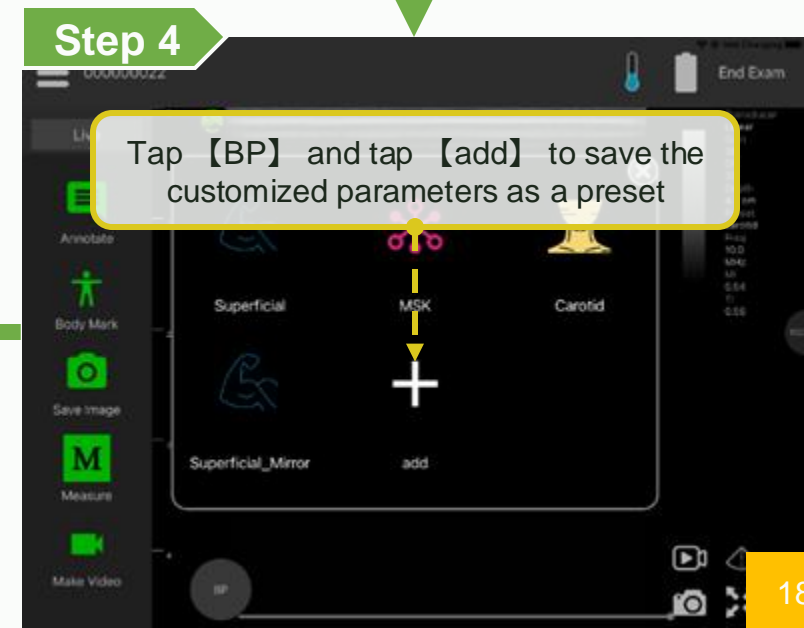
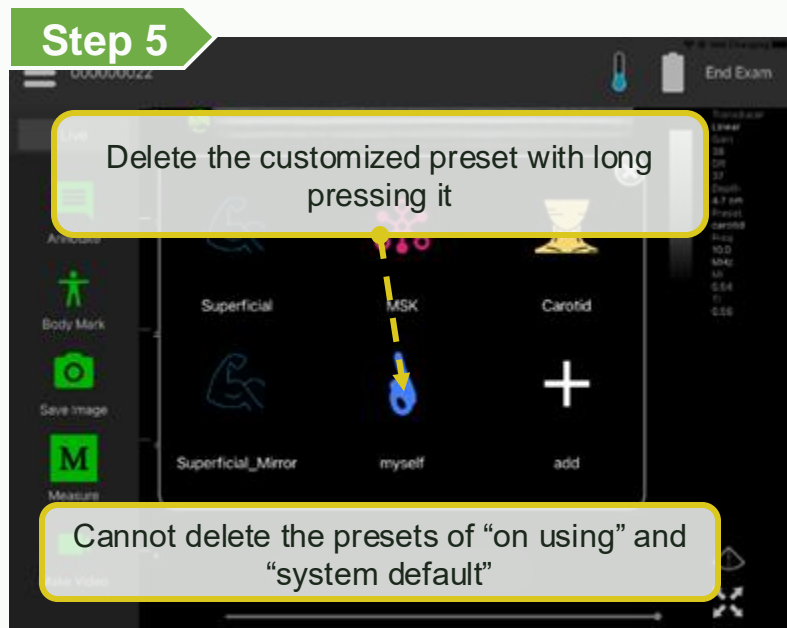
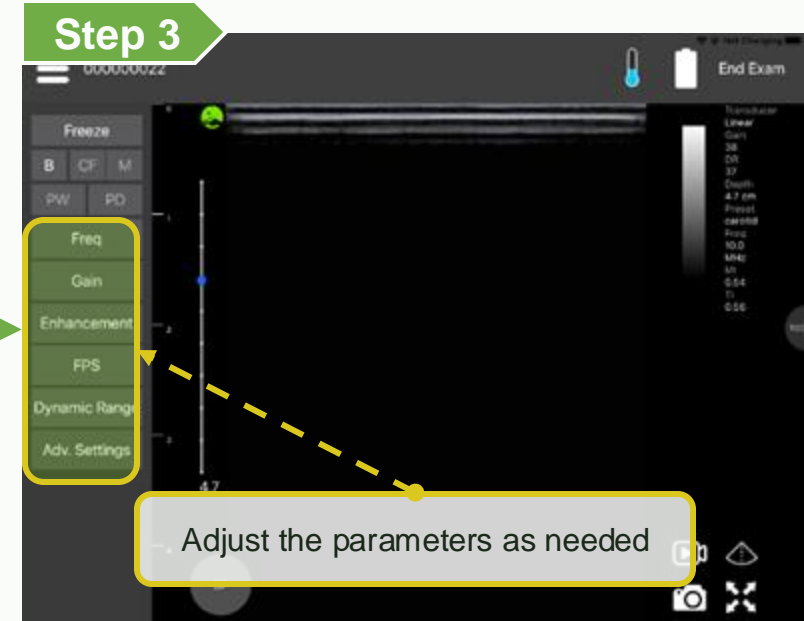
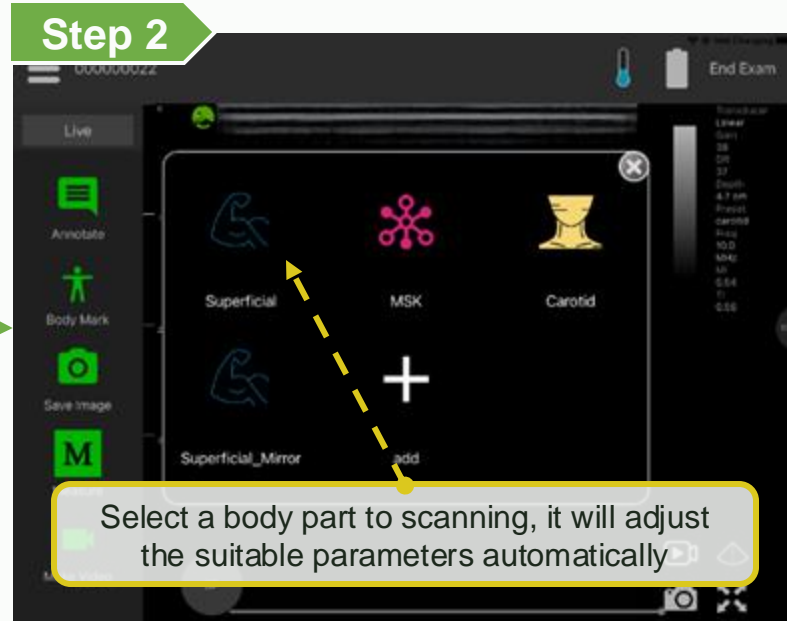
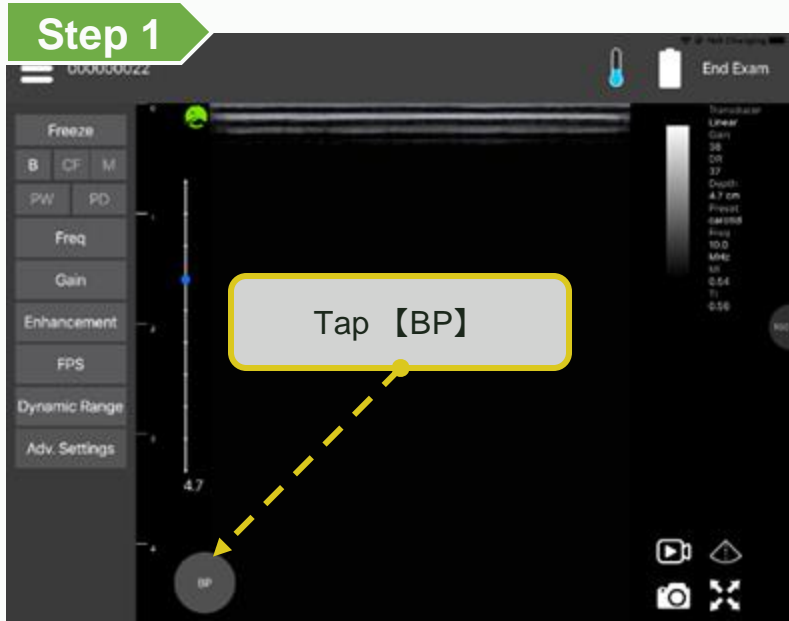
### Step 4

1. Tap **【PW Auto Measure】** to turn it on
2. It shows measurement values on the right side

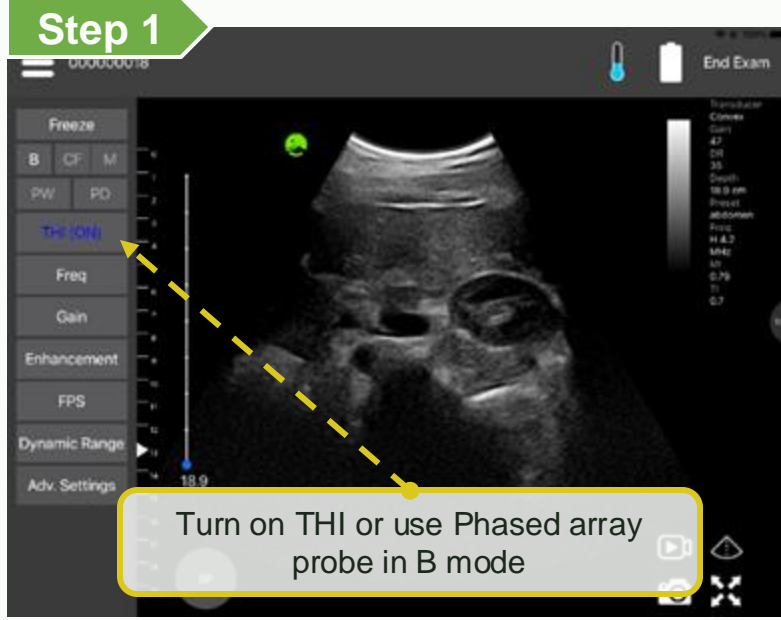
Values of velocity, volume flow...



# Scan - Select and customize a preset



**Step 1**



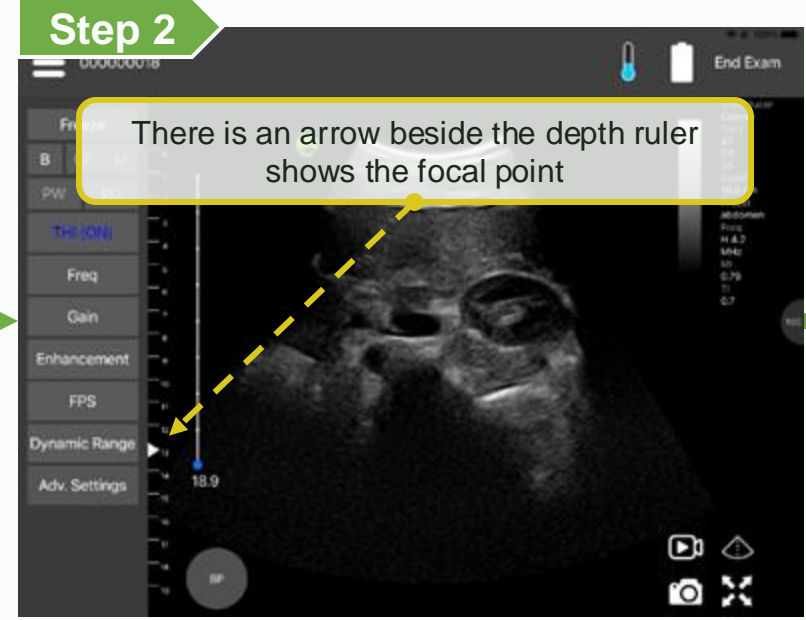
Turn on THI or use Phased array probe in B mode

Freeze  
B CF M  
PW PD  
THI (ON)  
Freq  
Gain  
Enhancement  
FPS  
Dynamic Range  
Adv. Settings

18.9

End Exam

**Step 2**



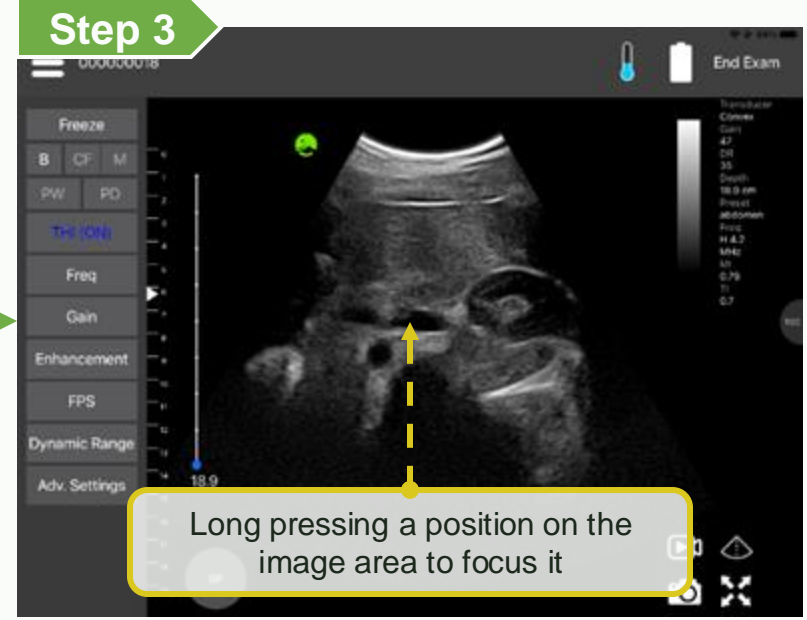
There is an arrow beside the depth ruler shows the focal point

Freeze  
B CF M  
PW PD  
THI (ON)  
Freq  
Gain  
Enhancement  
FPS  
Dynamic Range  
Adv. Settings

18.9

End Exam

**Step 3**



Long pressing a position on the image area to focus it

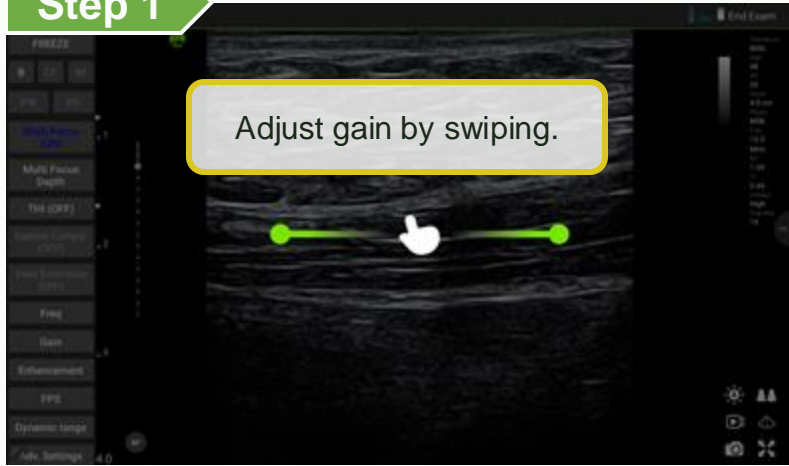
Freeze  
B CF M  
PW PD  
THI (ON)  
Freq  
Gain  
Enhancement  
FPS  
Dynamic Range  
Adv. Settings

18.9

End Exam

## Step 1

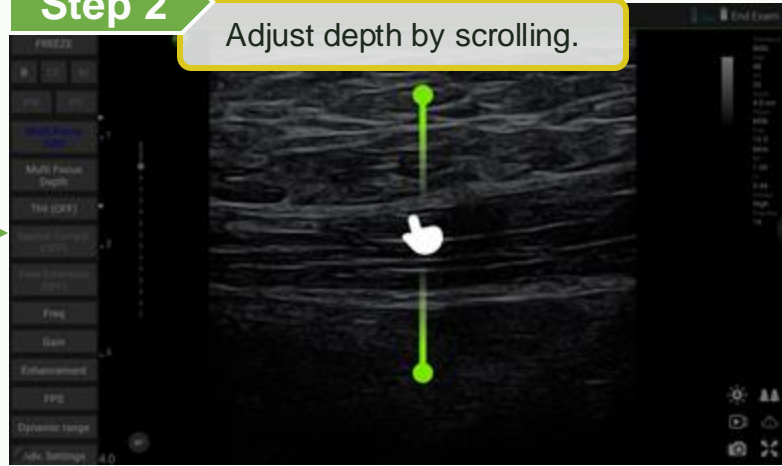
Adjust gain by swiping.



Adjust the gain

## Step 2

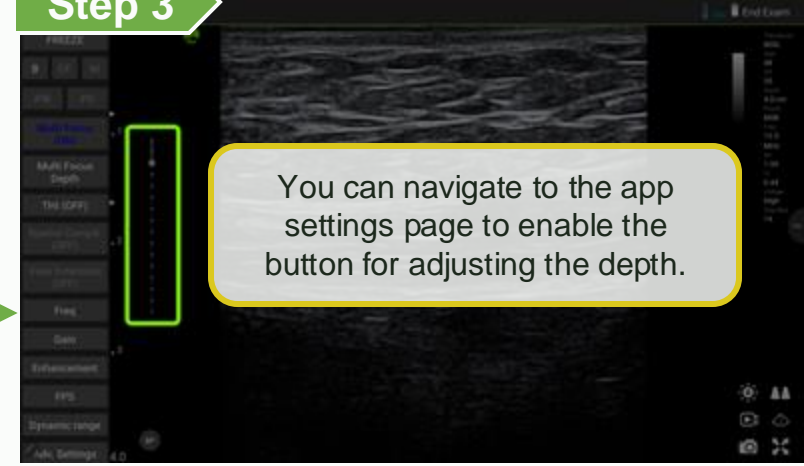
Adjust depth by scrolling.



Adjust the depth

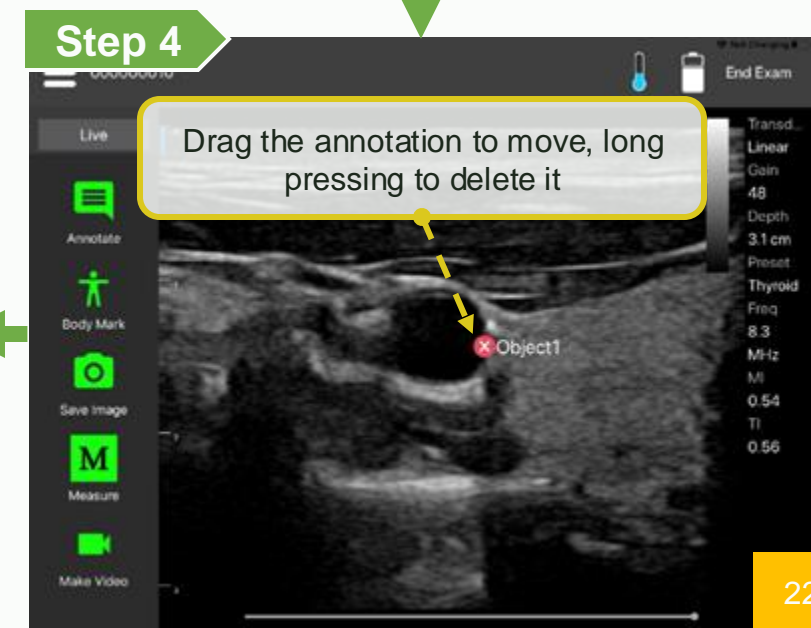
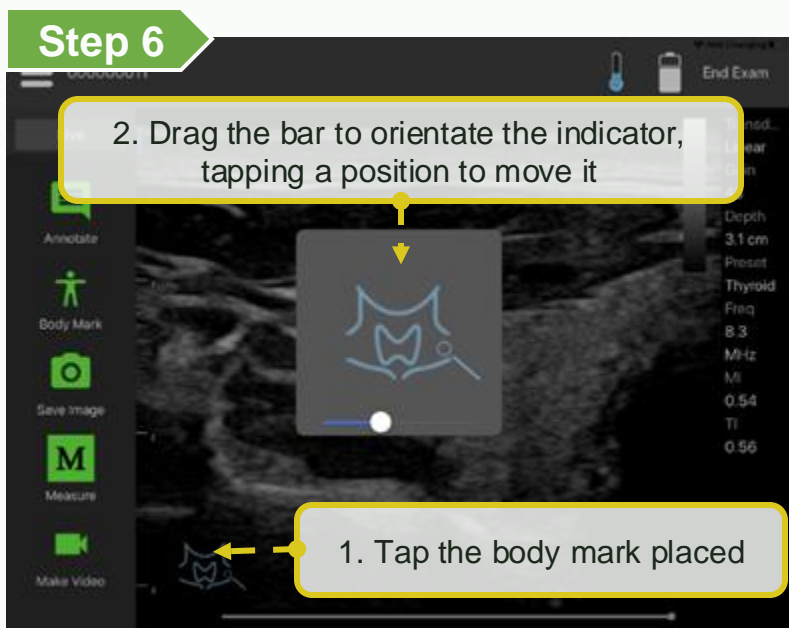
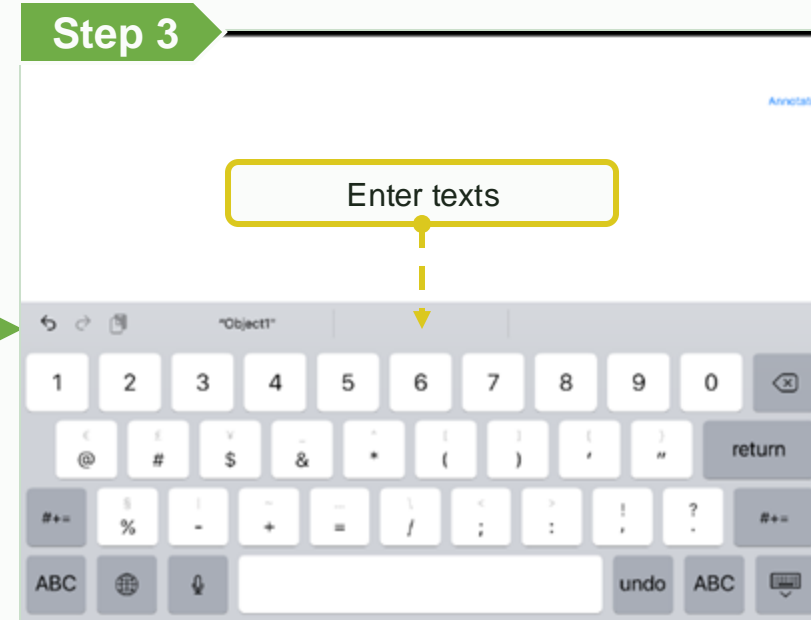
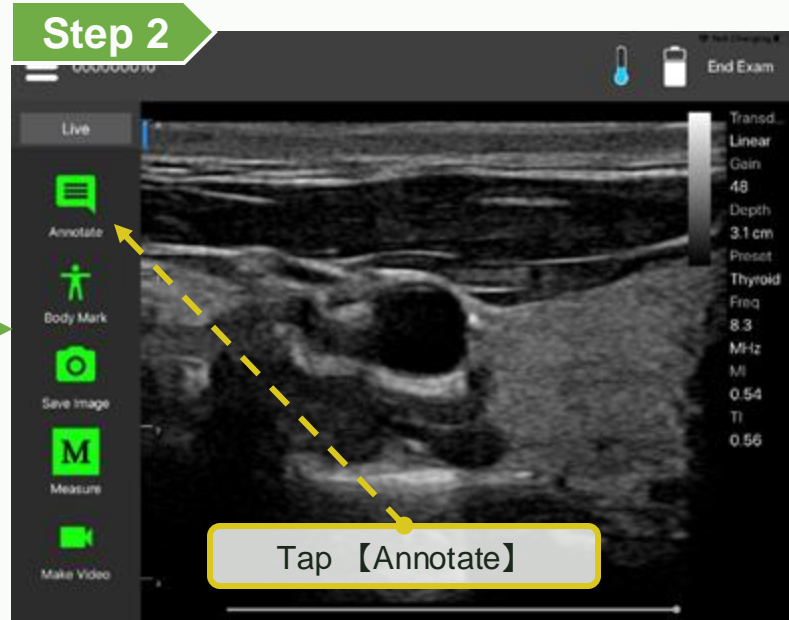
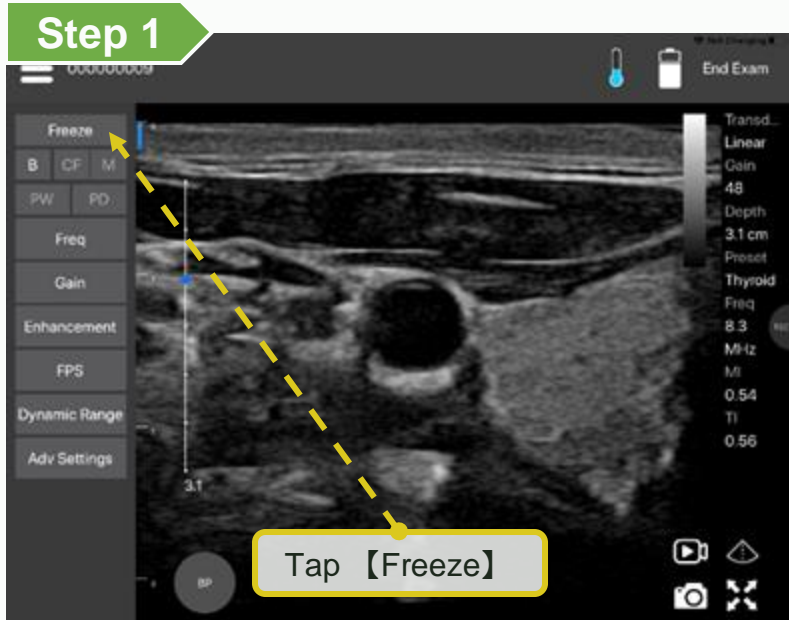
## Step 3

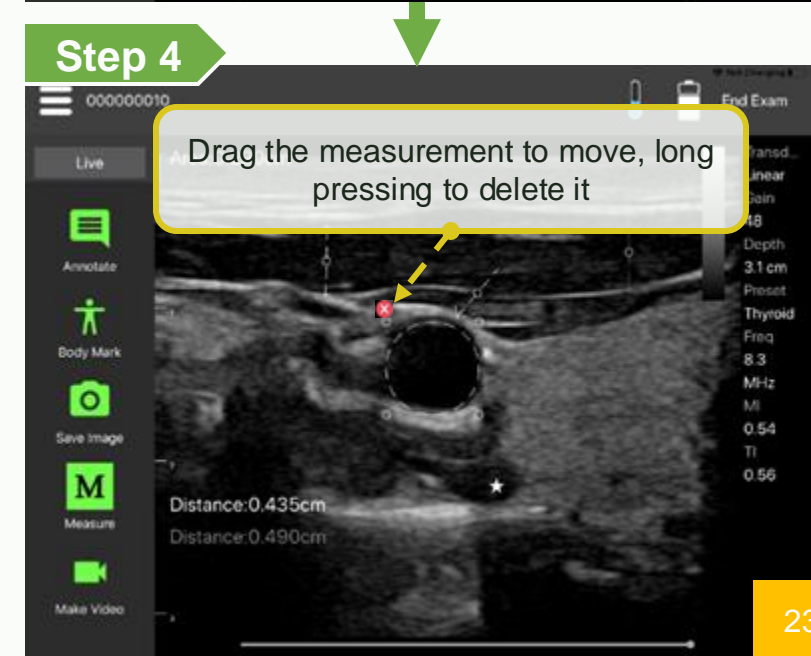
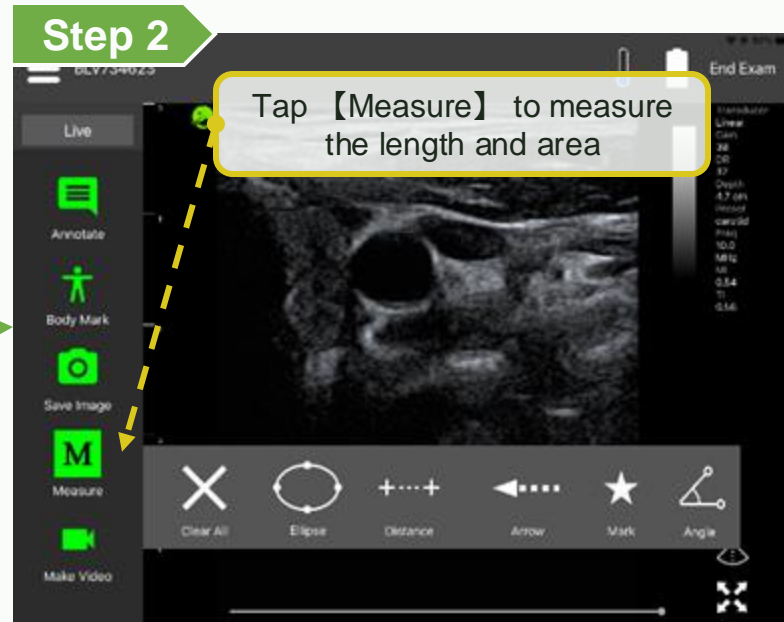
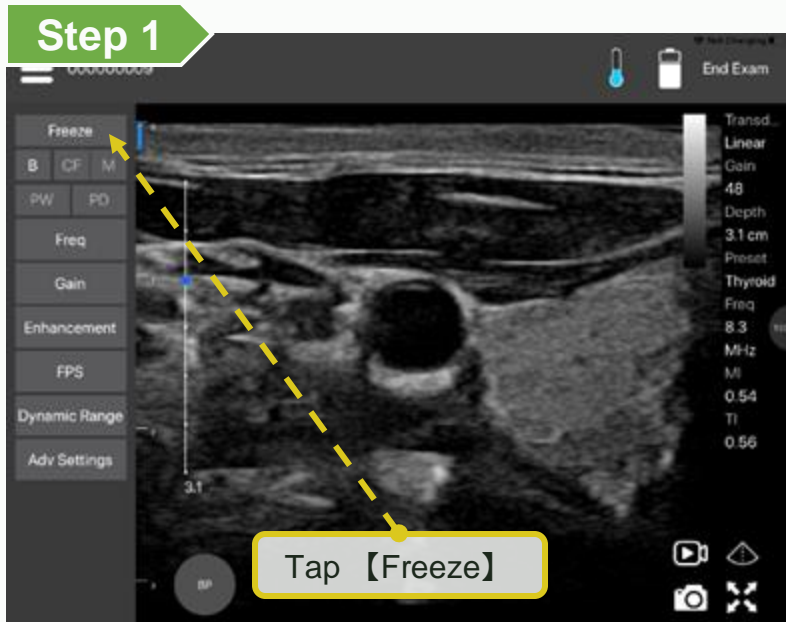
You can navigate to the app settings page to enable the button for adjusting the depth.



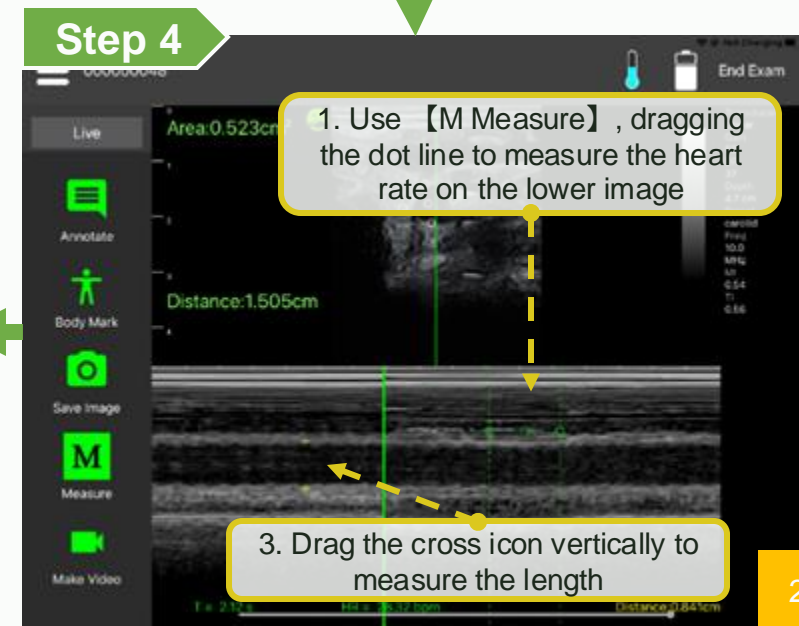
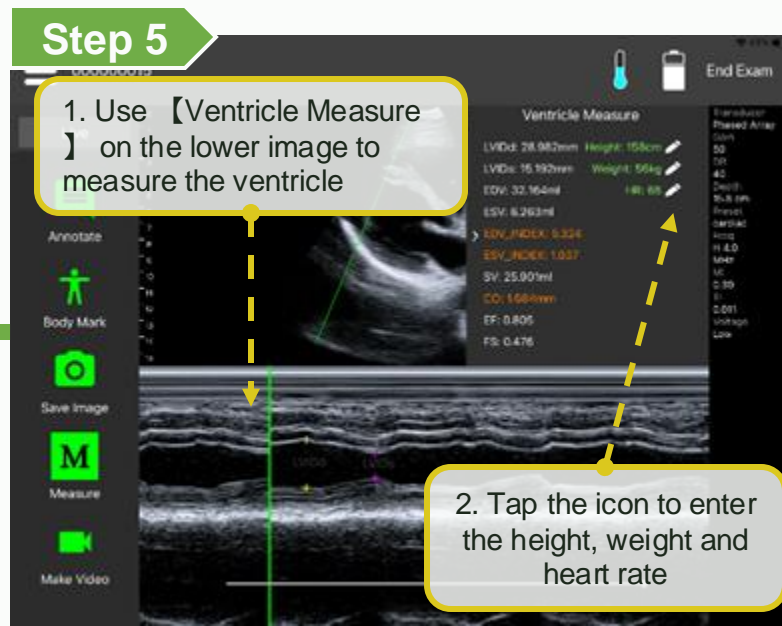
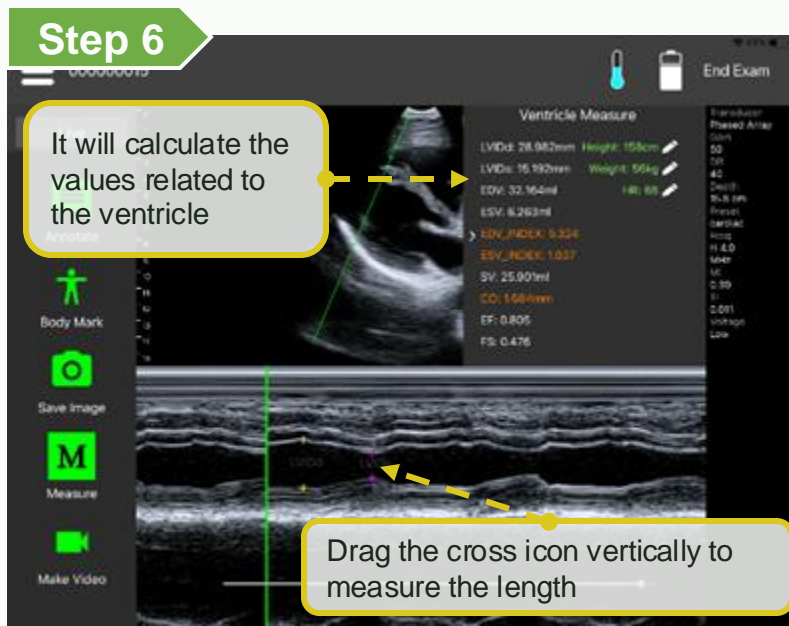
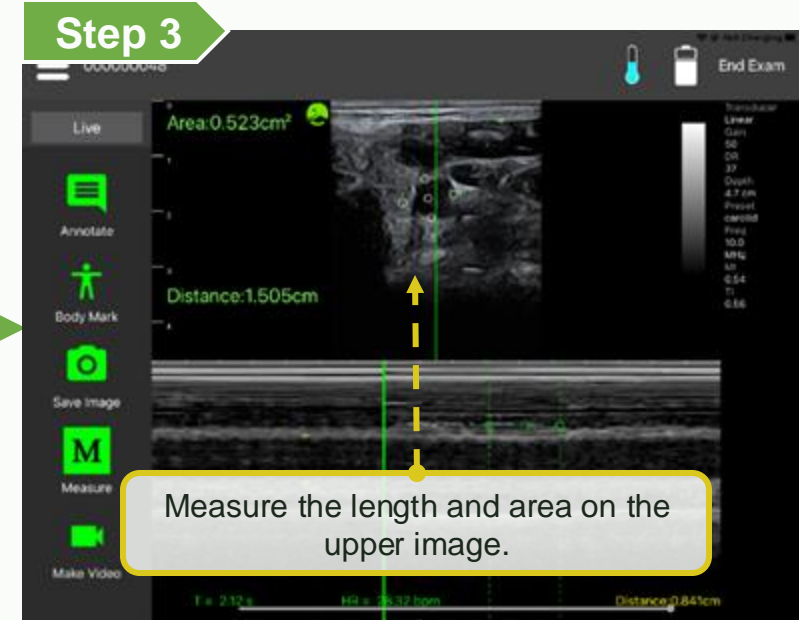
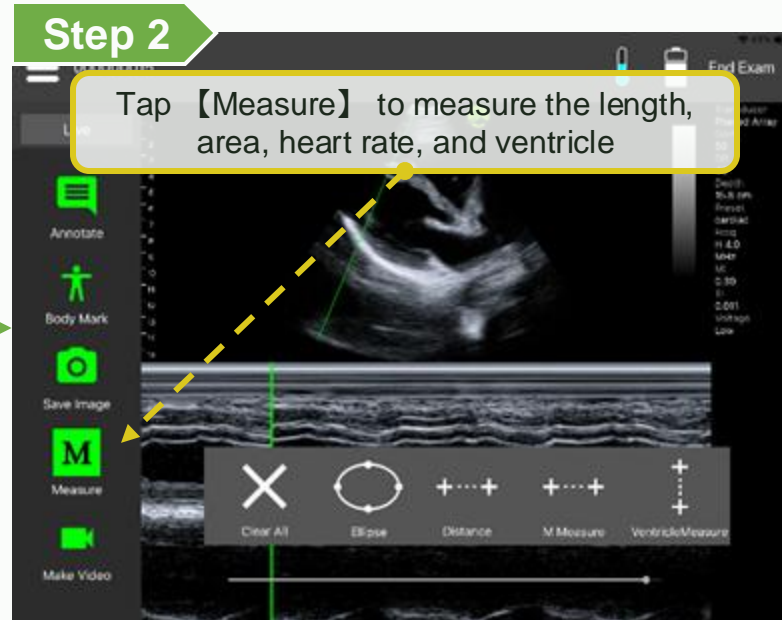
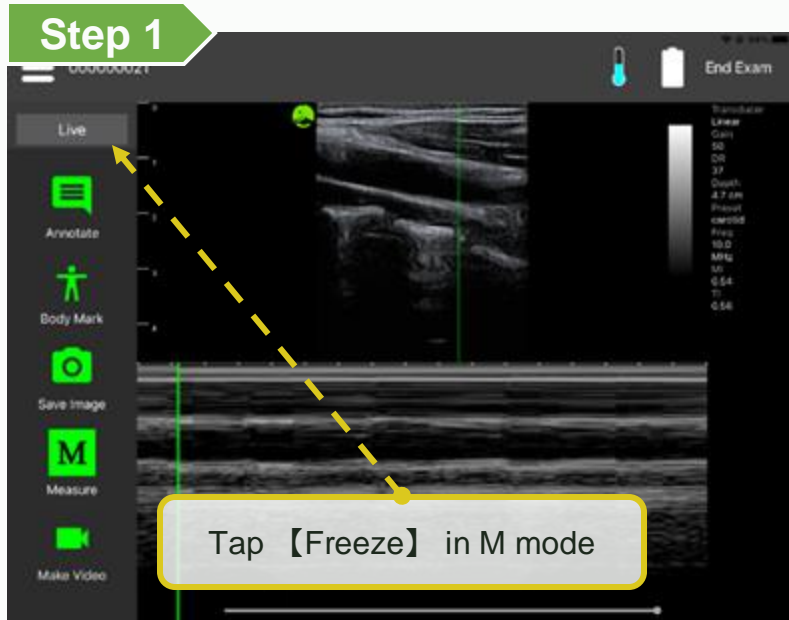
**【 Annotate, measure and save 】**

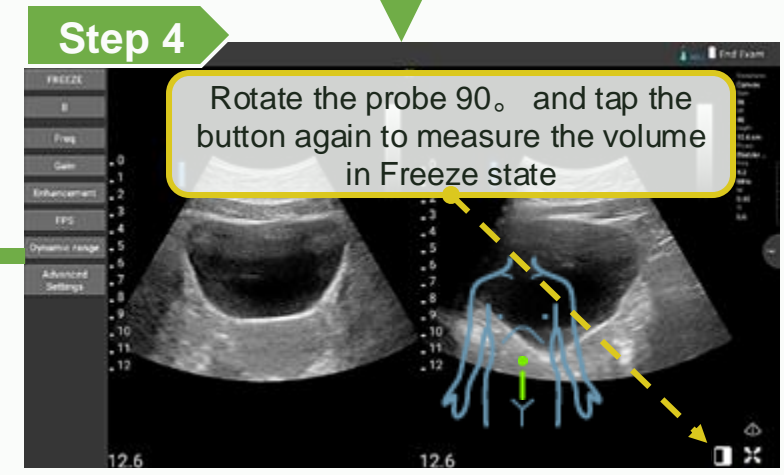
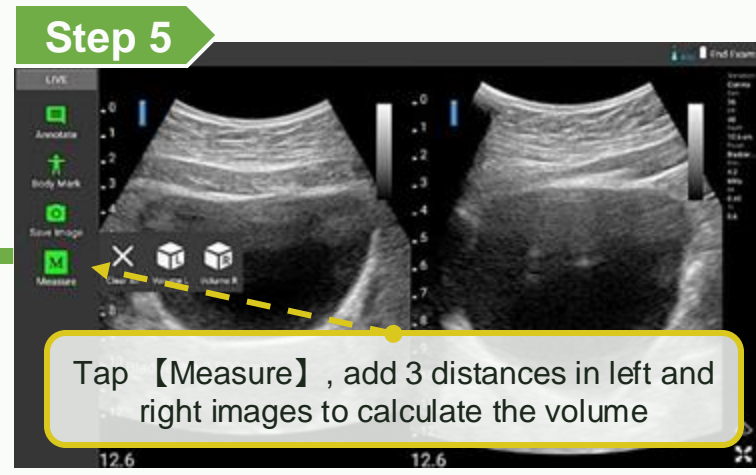
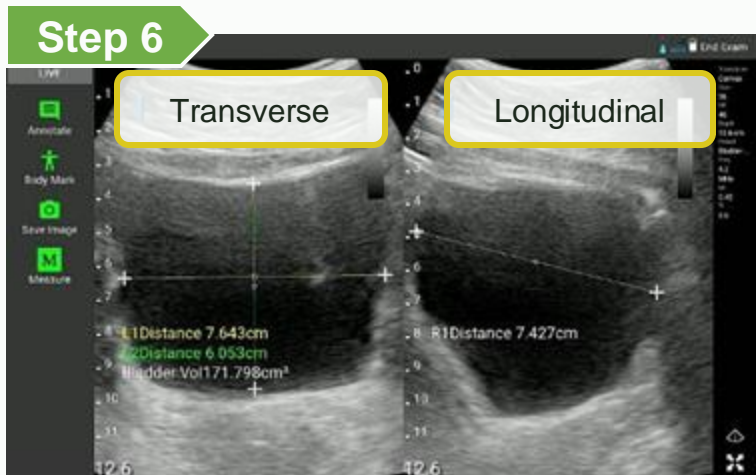
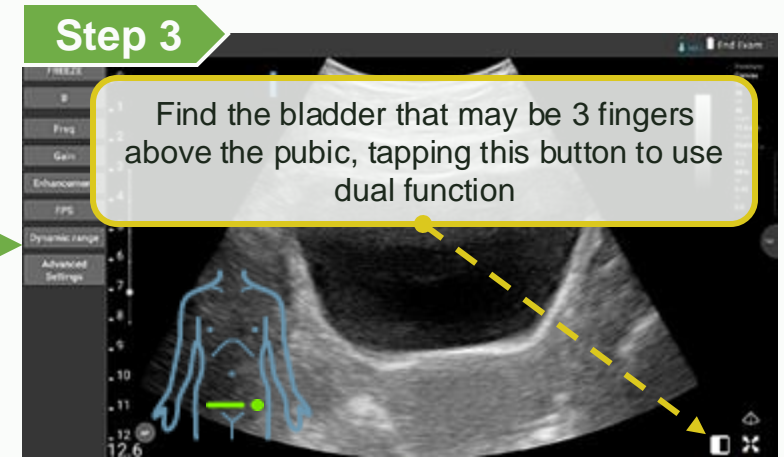
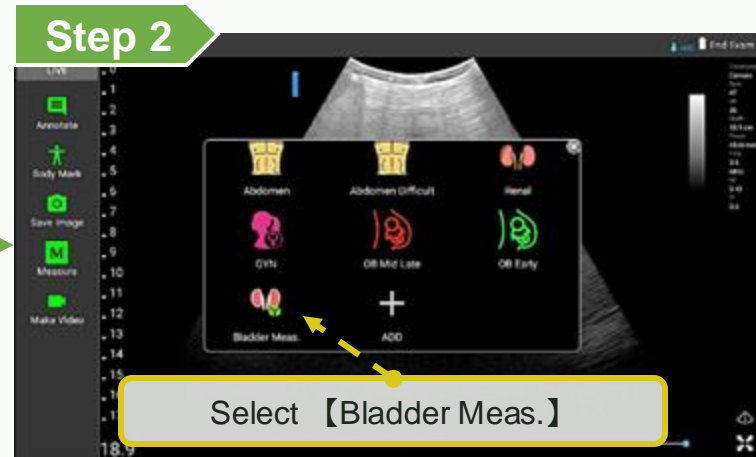
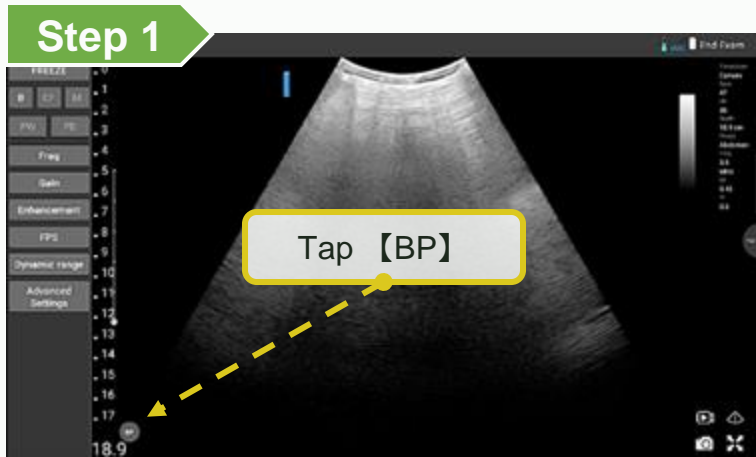


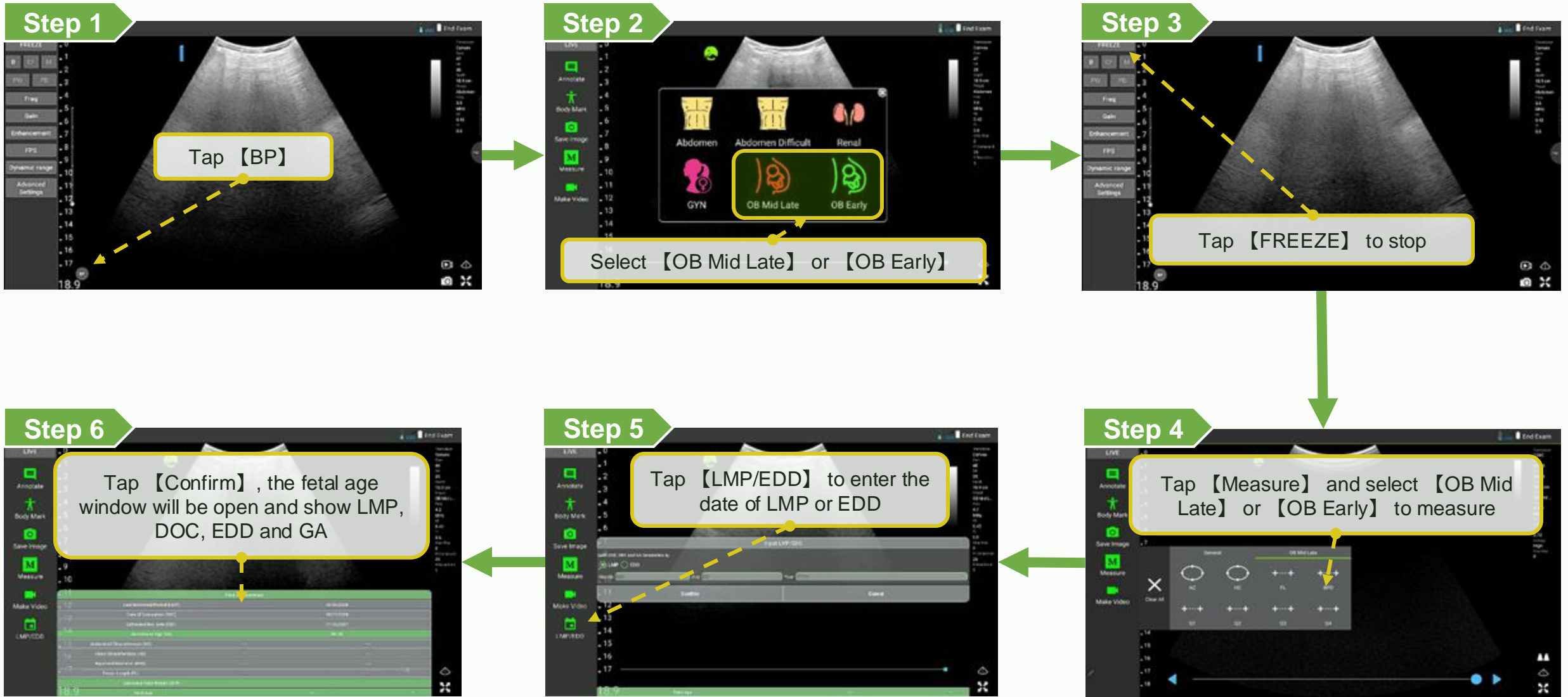




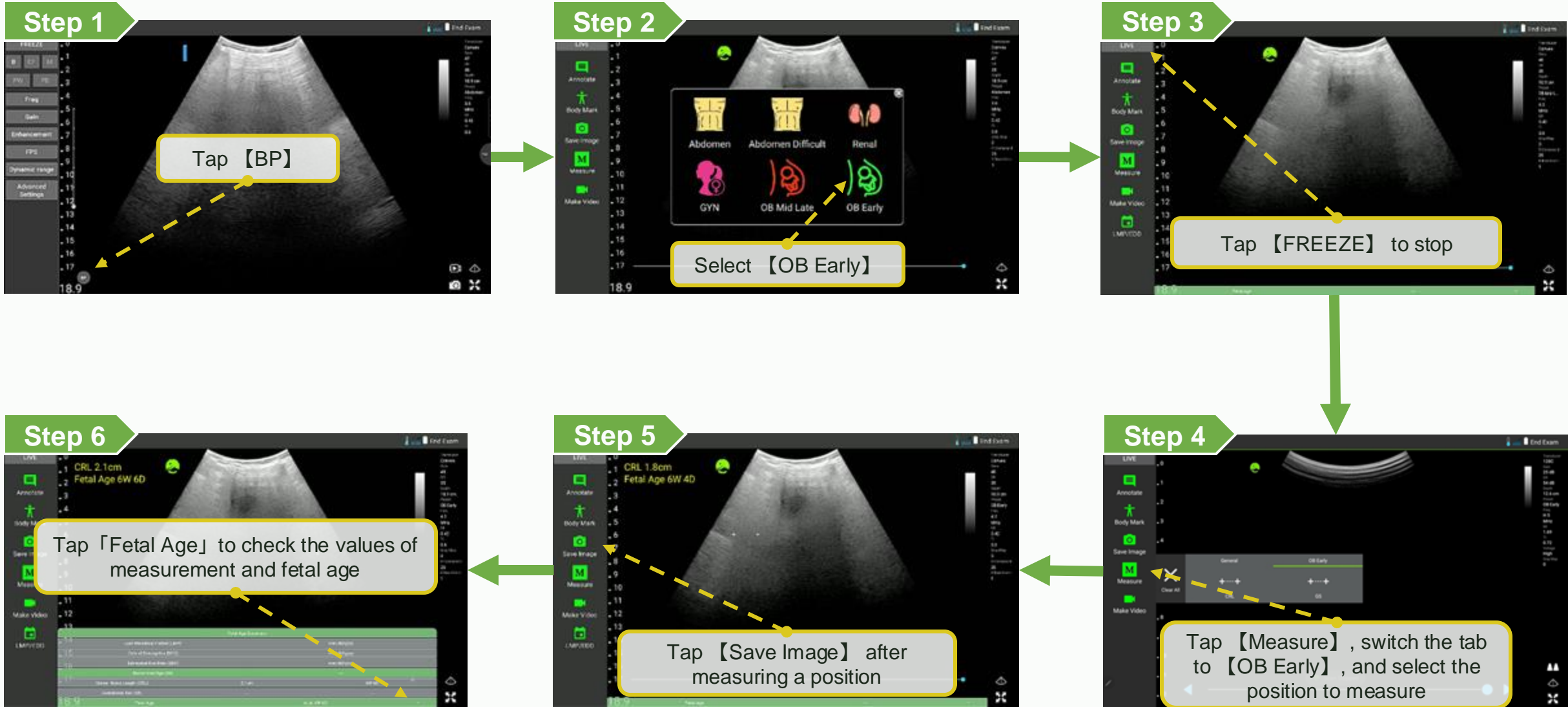




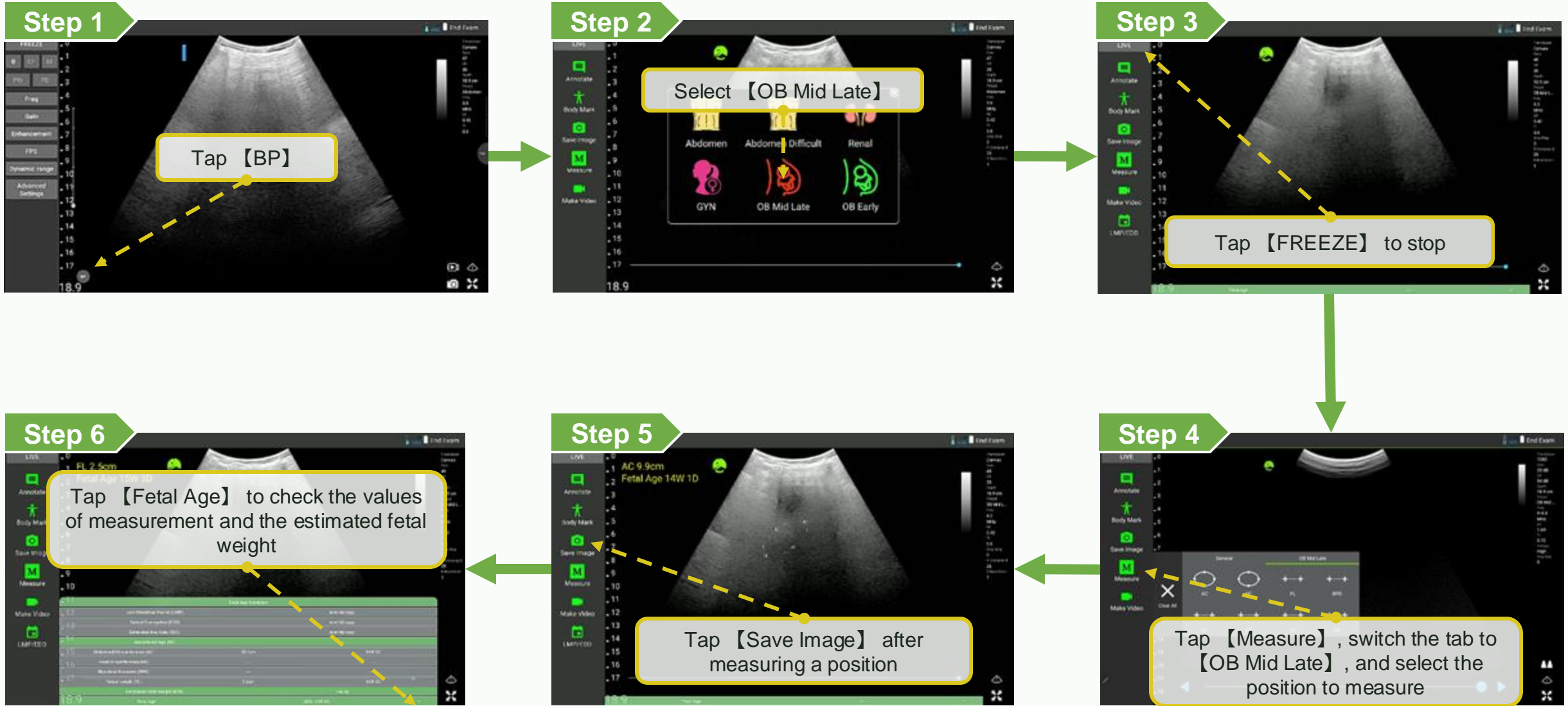








# Annotate, measure and save - Measuring in OB mid late E.I.MEDICAL IMAGING



# Annotate, measure and save - Measuring cardiac in B mode E.I.MEDICAL IMAGING

**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.

Length	Weight	HR	SV	CO
Length: 4.98 cm	2.70 cm	SV: 70.57 ml	CO: ---	
Area: 22.72 cm <sup>2</sup>	7.45 cm <sup>2</sup>	SI: ---	EF: 80.20 %	
Volume: 57.68 ml	17.47 ml	CI: ---		

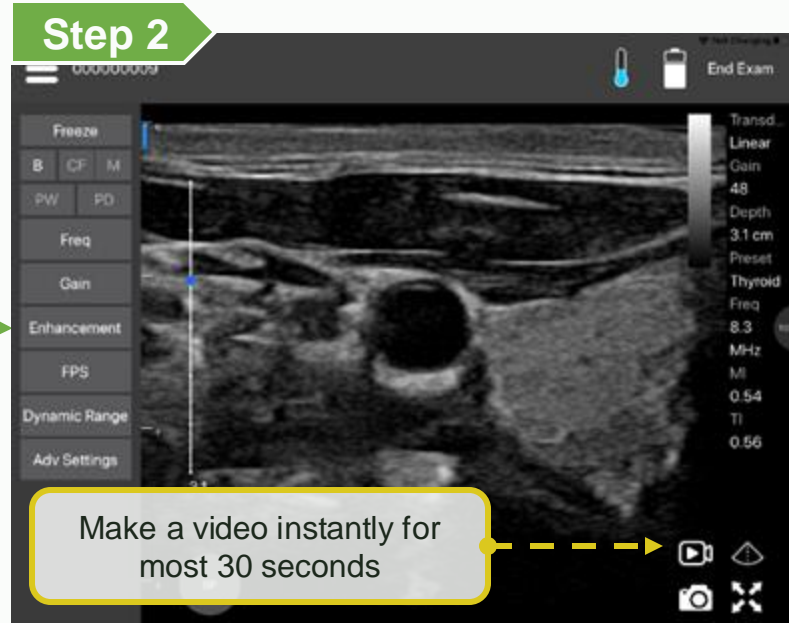
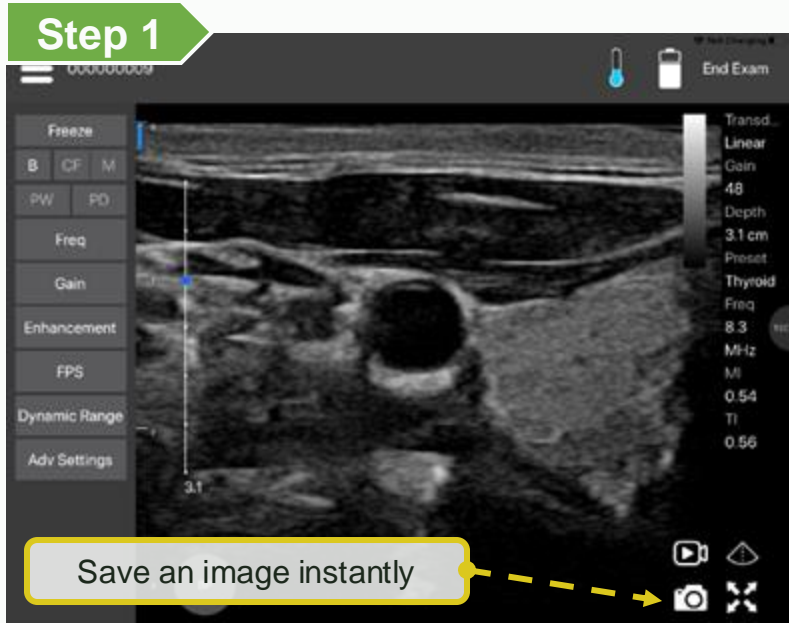
**Step 5**

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

Length	Weight	HR	SV	CO
Length: 158 cm	50 kg	HR: 60 bpm	SV: 70.57 ml	CO: 4.23 l/min
Area: 22.72 cm <sup>2</sup>	7.45 cm <sup>2</sup>	SI: 47.64 ml/m <sup>2</sup>	EF: 80.20 %	
Volume: 57.68 ml	17.47 ml	CI: 2.86 l/m <sup>2</sup> /min		

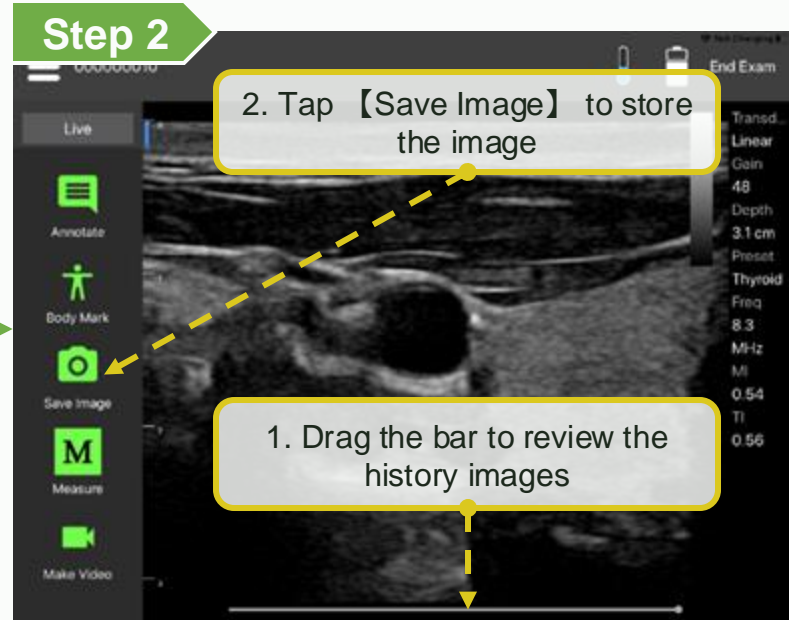
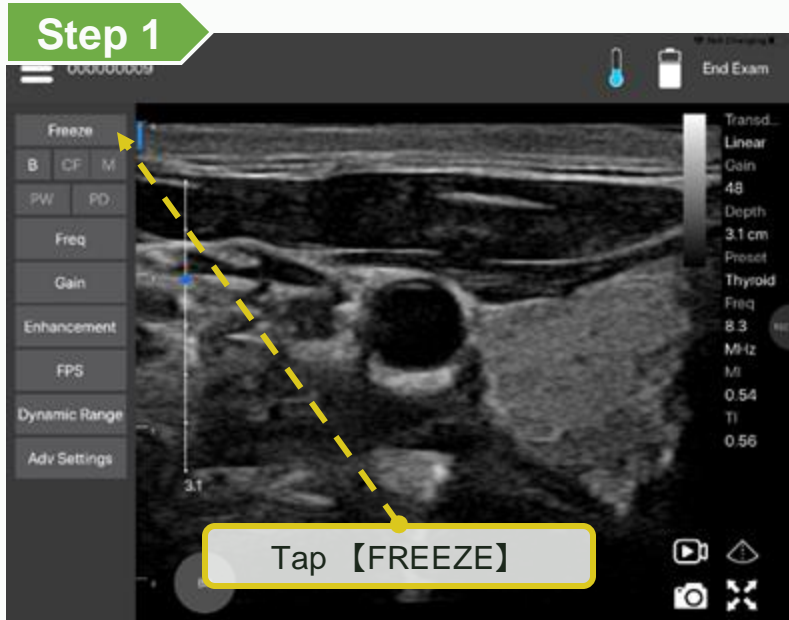
**Step 4**

Tap the pen icon to enter BSA

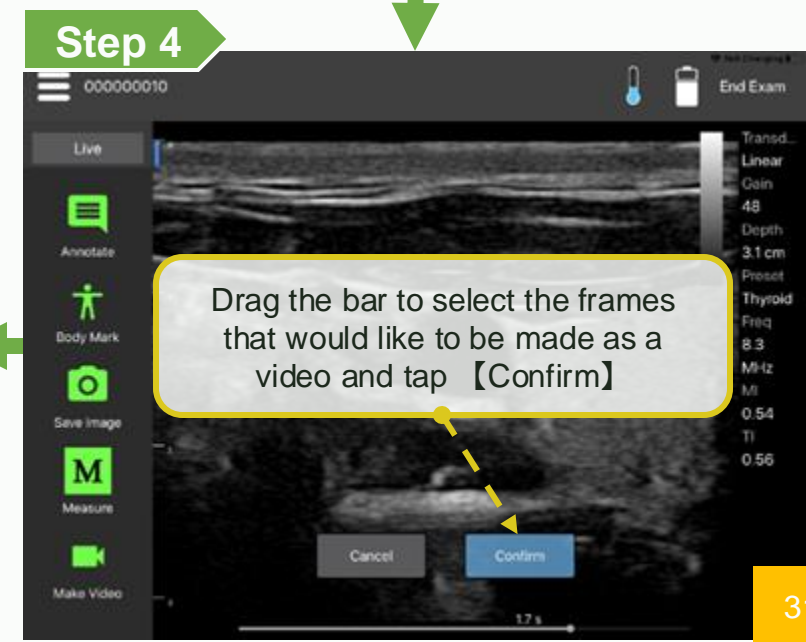


Up to 200 frames or more than 15 seconds



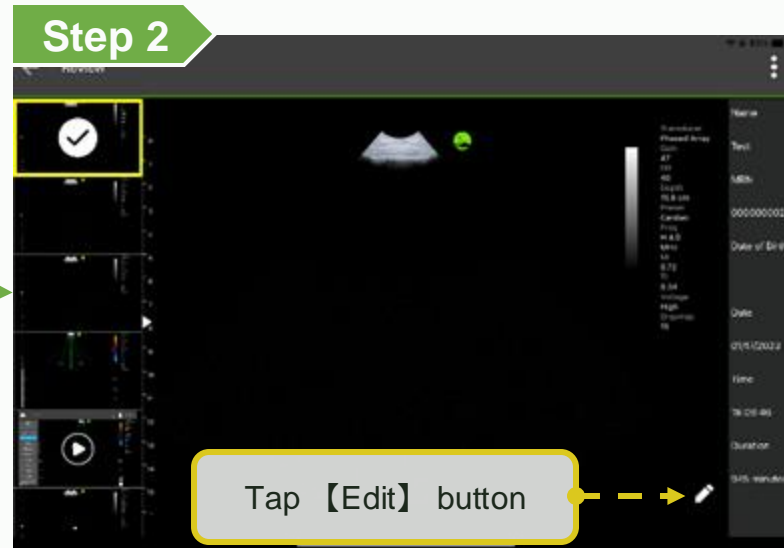
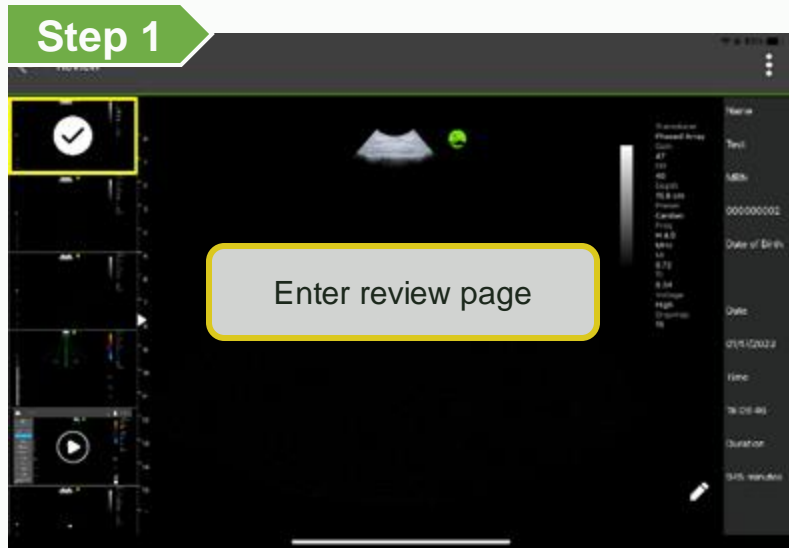


Up to 200 frames or more than 15 seconds

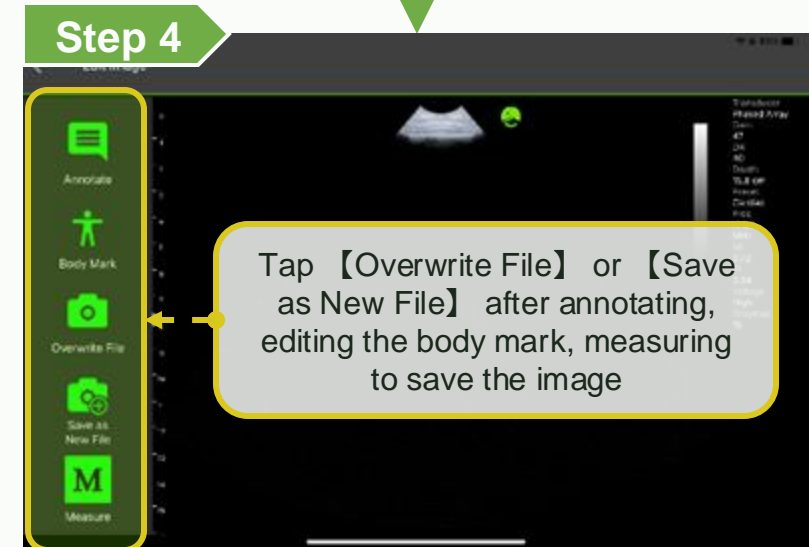
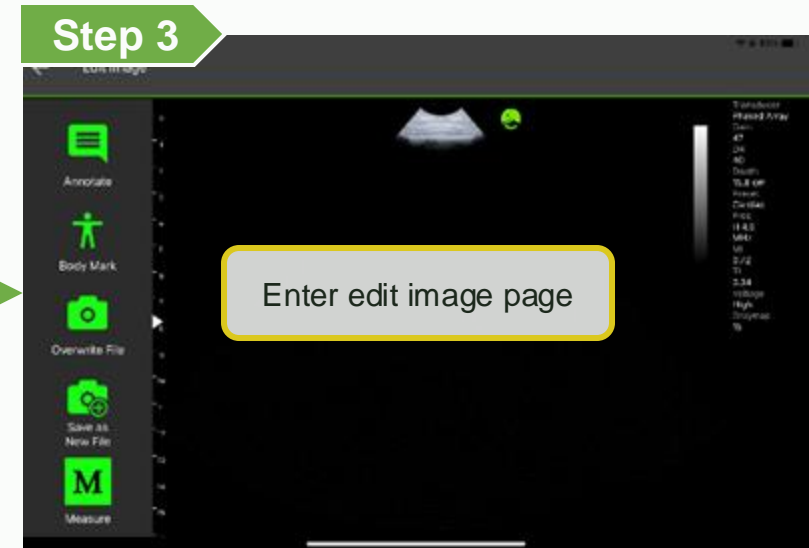




# Annotate, measure and save - Re-edited, re-measured image E.I.MEDICAL IMAGING

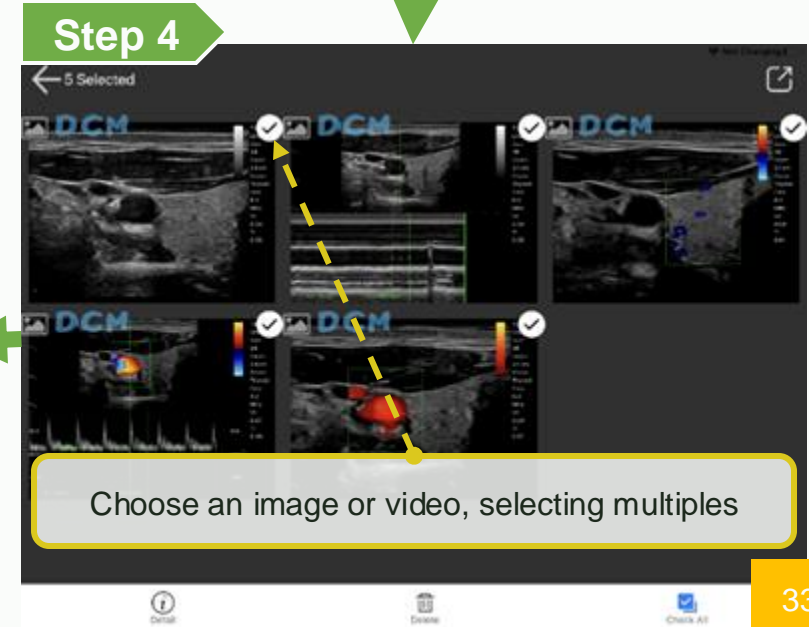
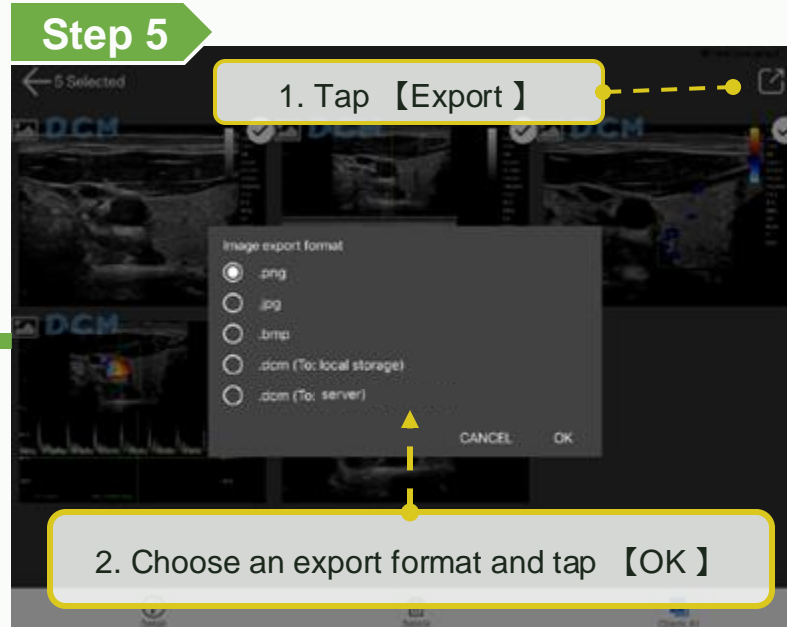
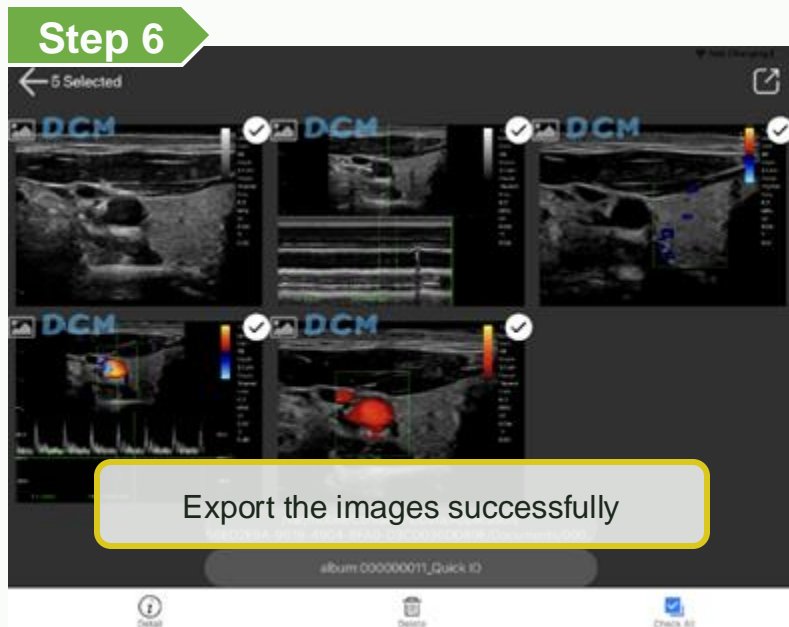
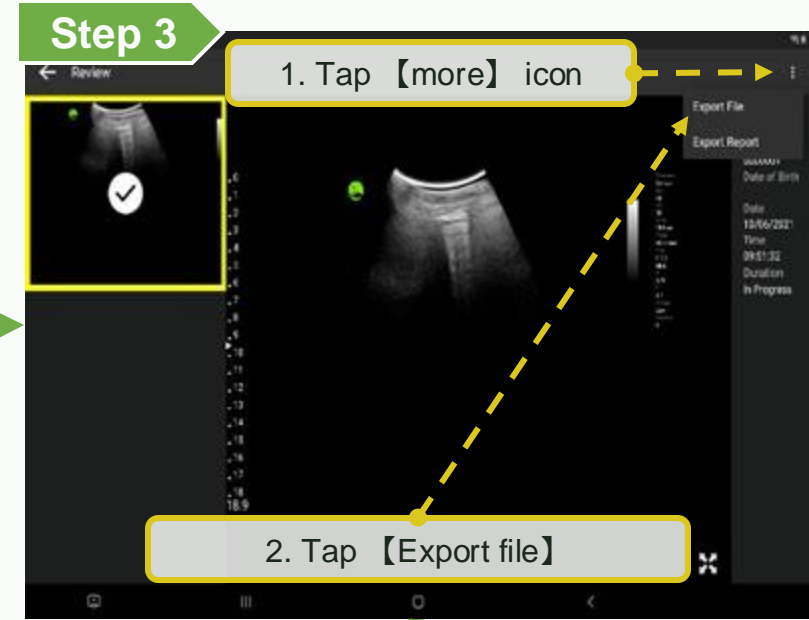
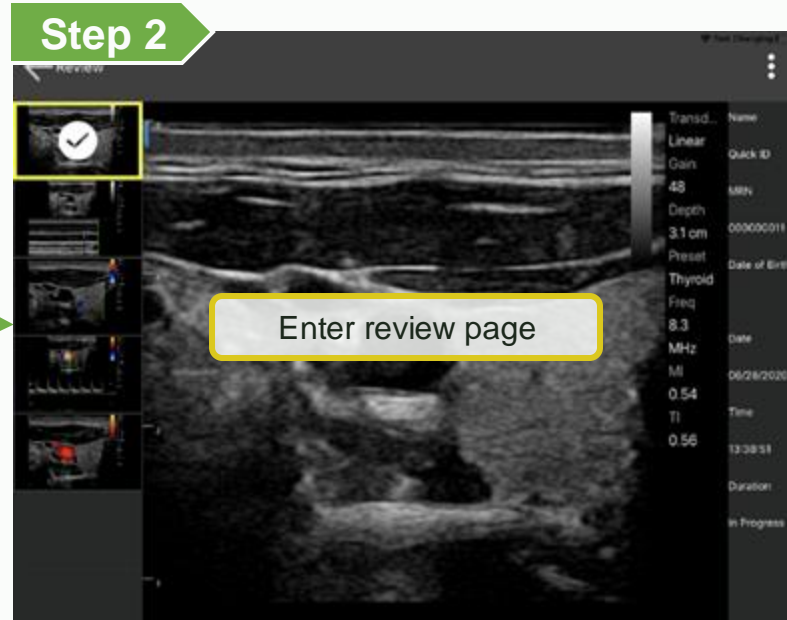
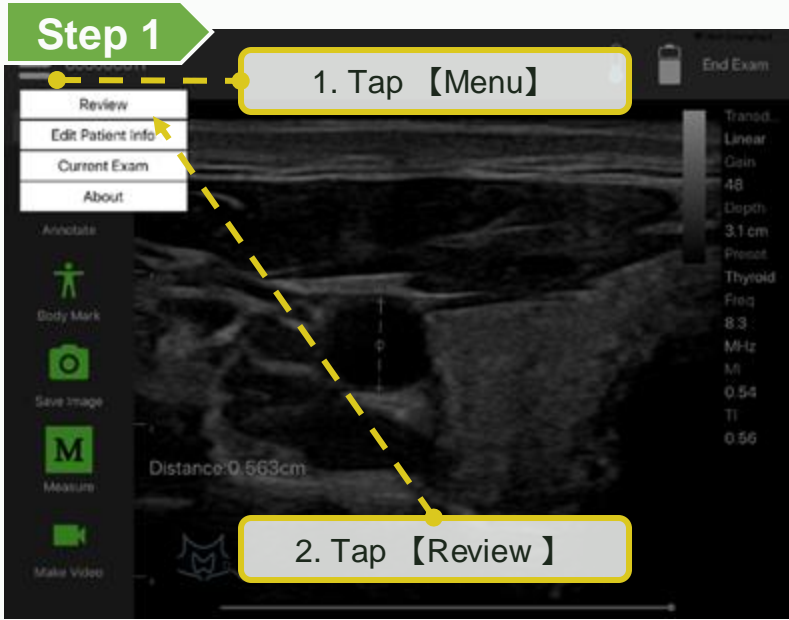


The image should be B mode without specific measurement tools



# Annotate, measure and save - Export

\*Please export the files regularly to avoid data loss.

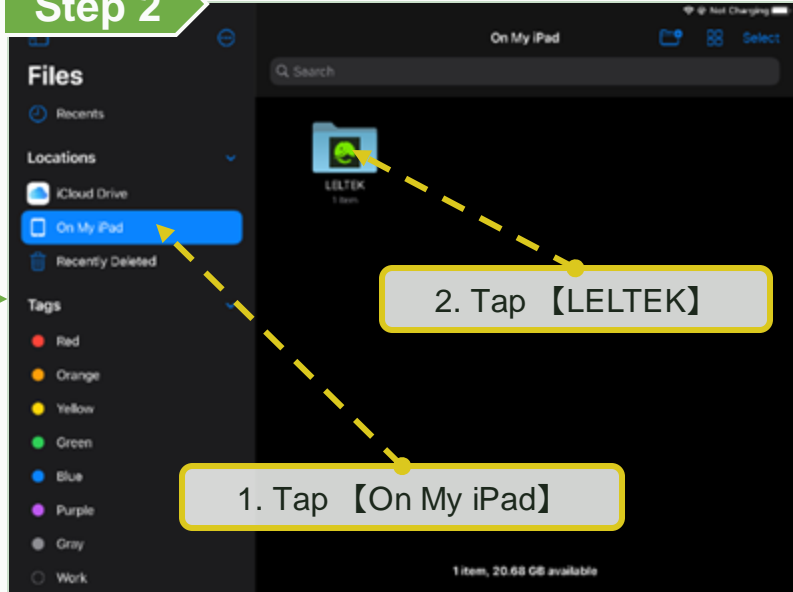


### Step 1

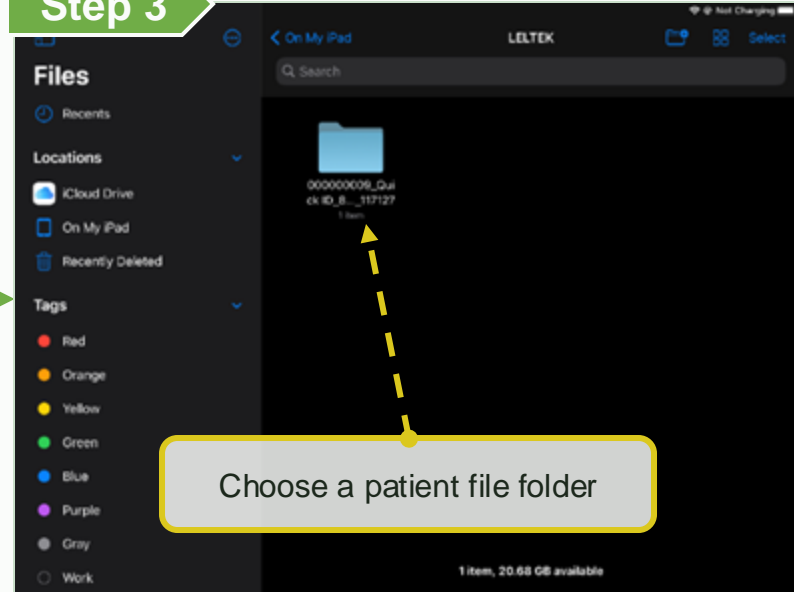


The folder where files are placed in each smart device is different, please refer to the device manual

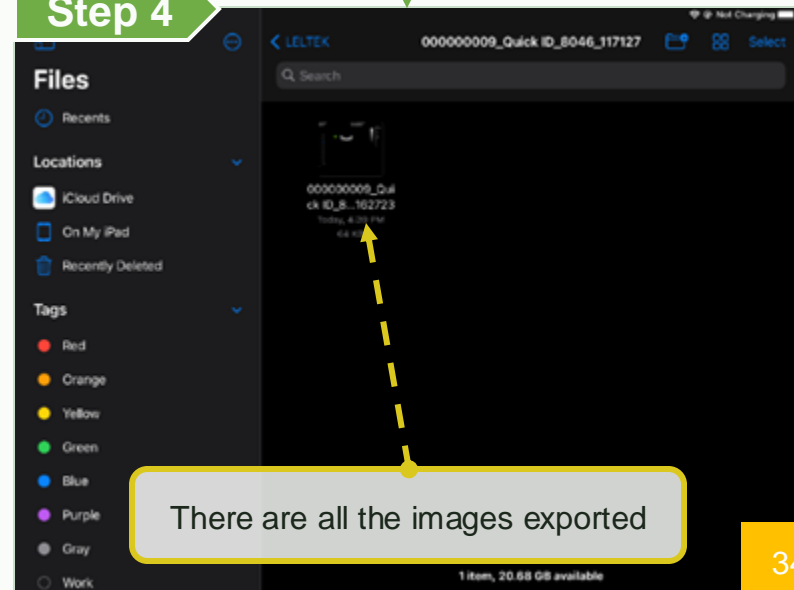
### Step 2

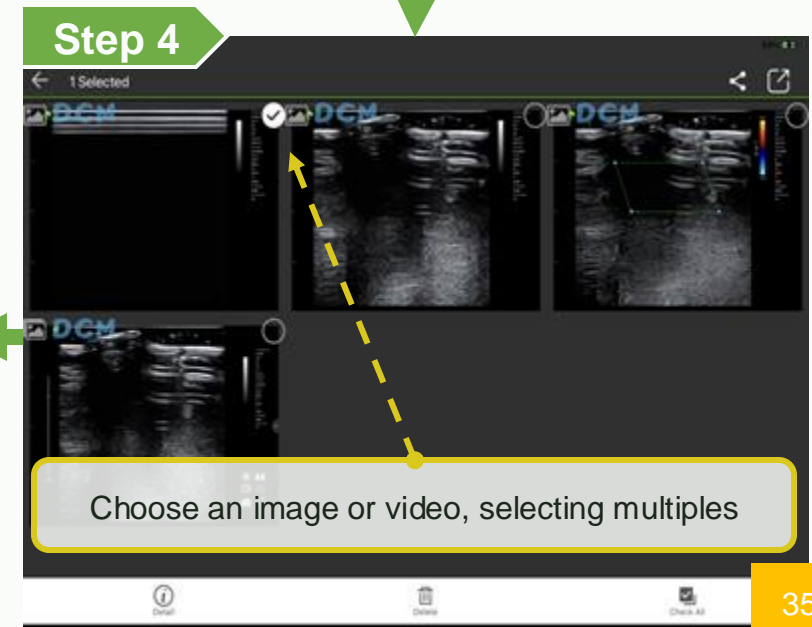
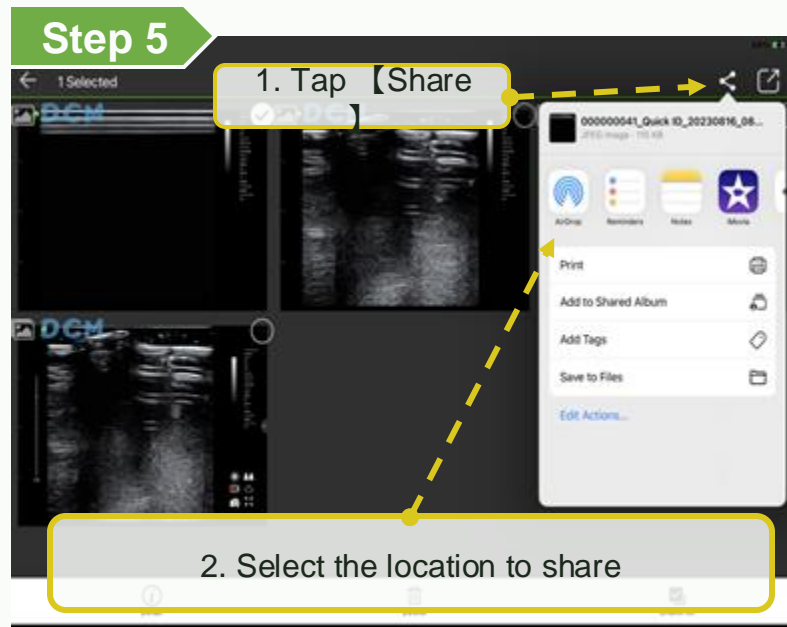
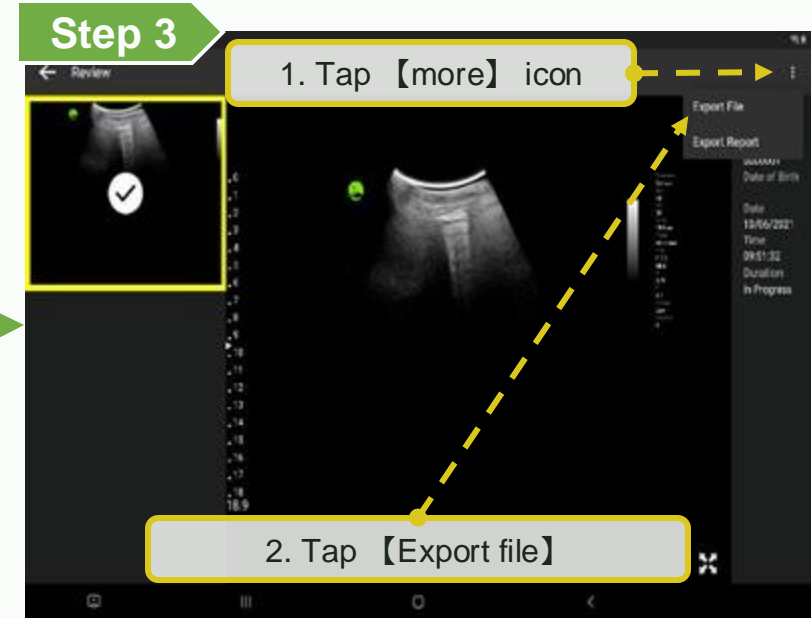
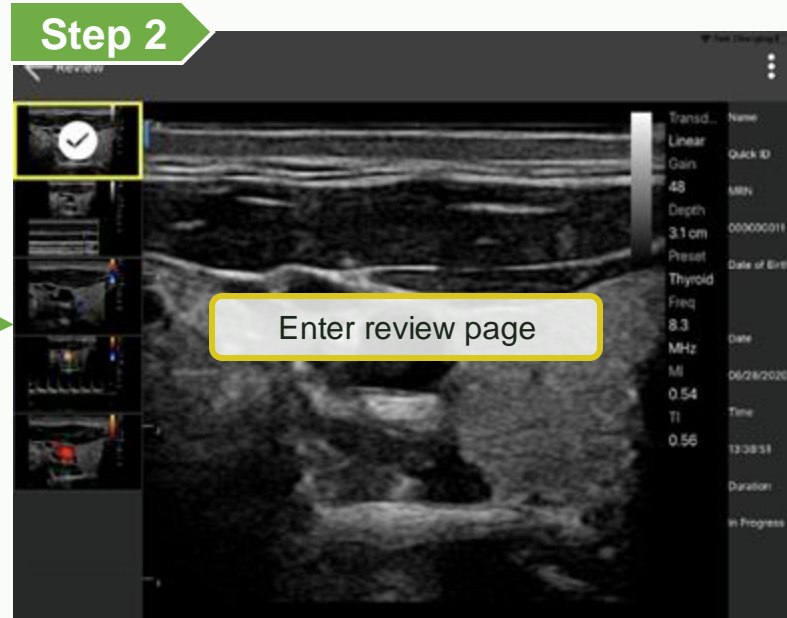
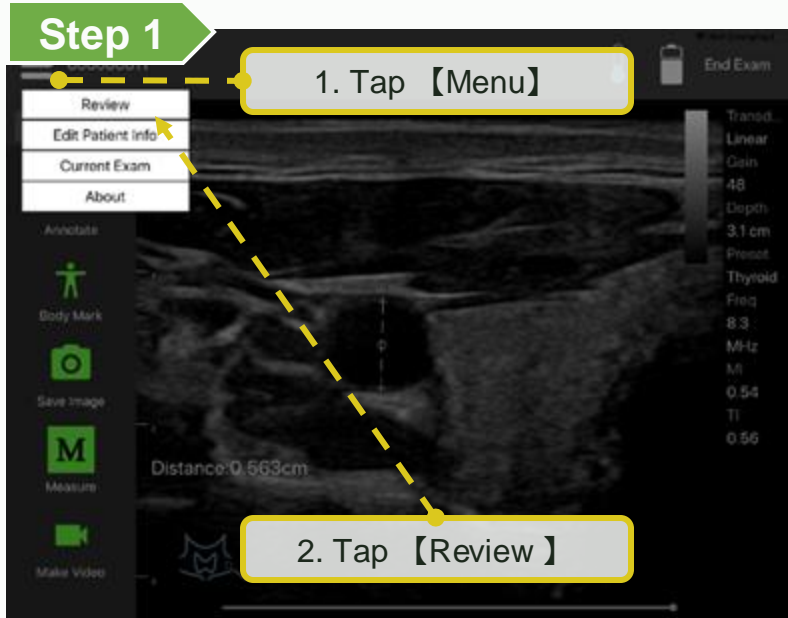


### Step 3

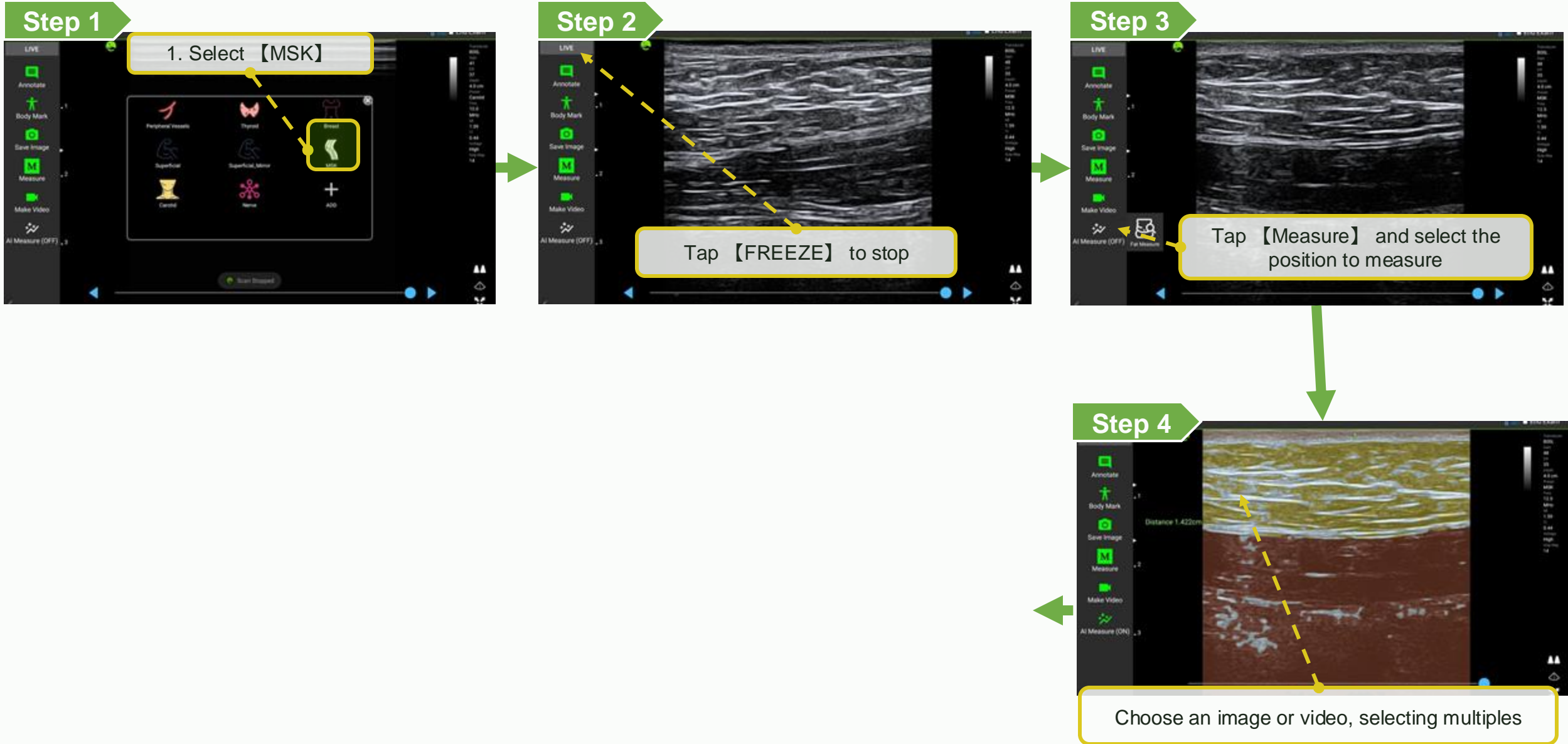


### Step 4

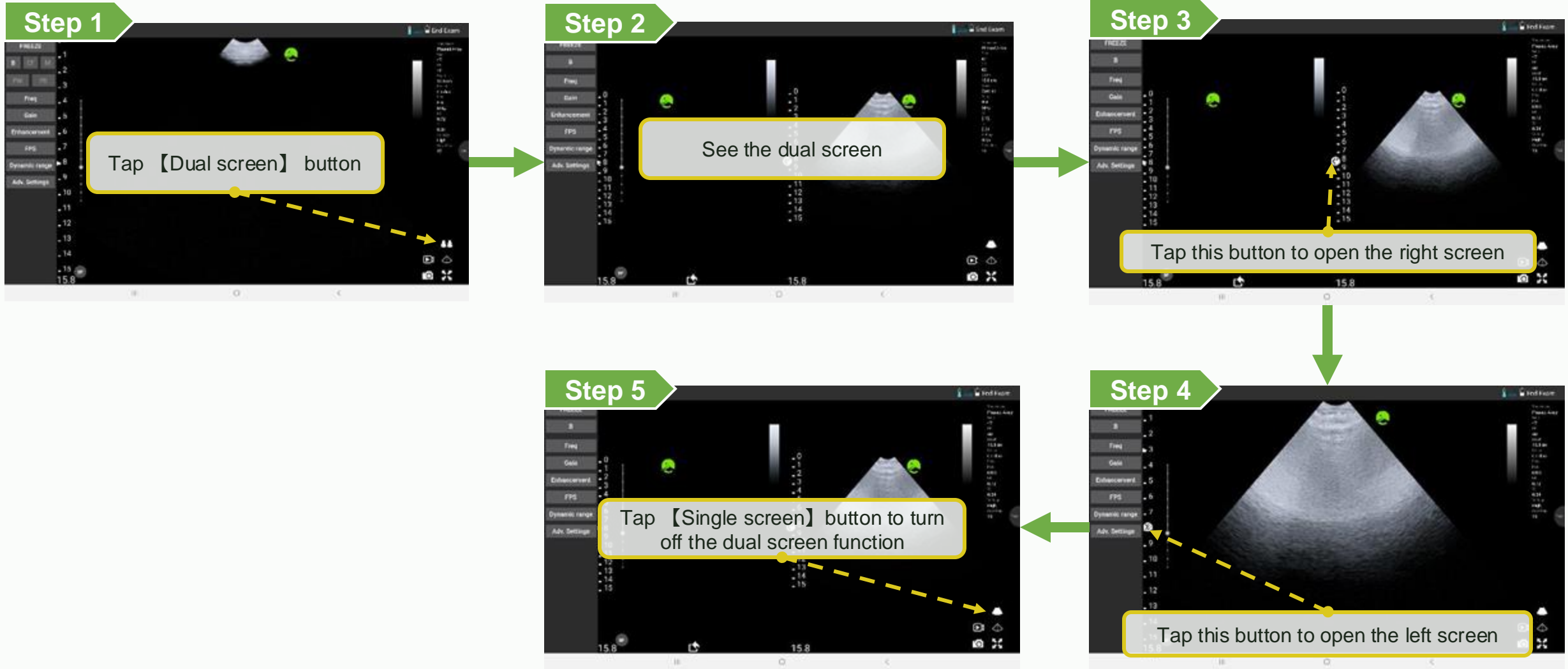


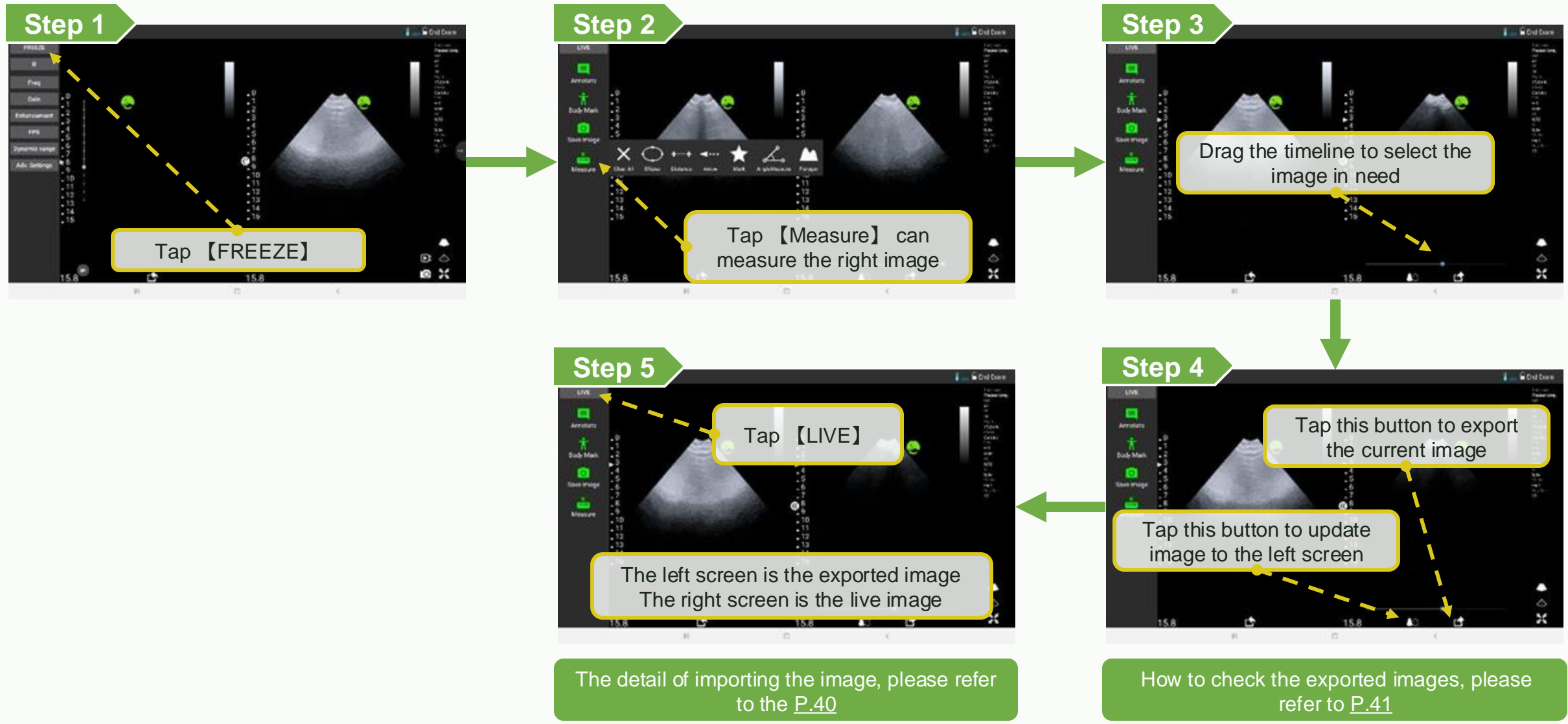




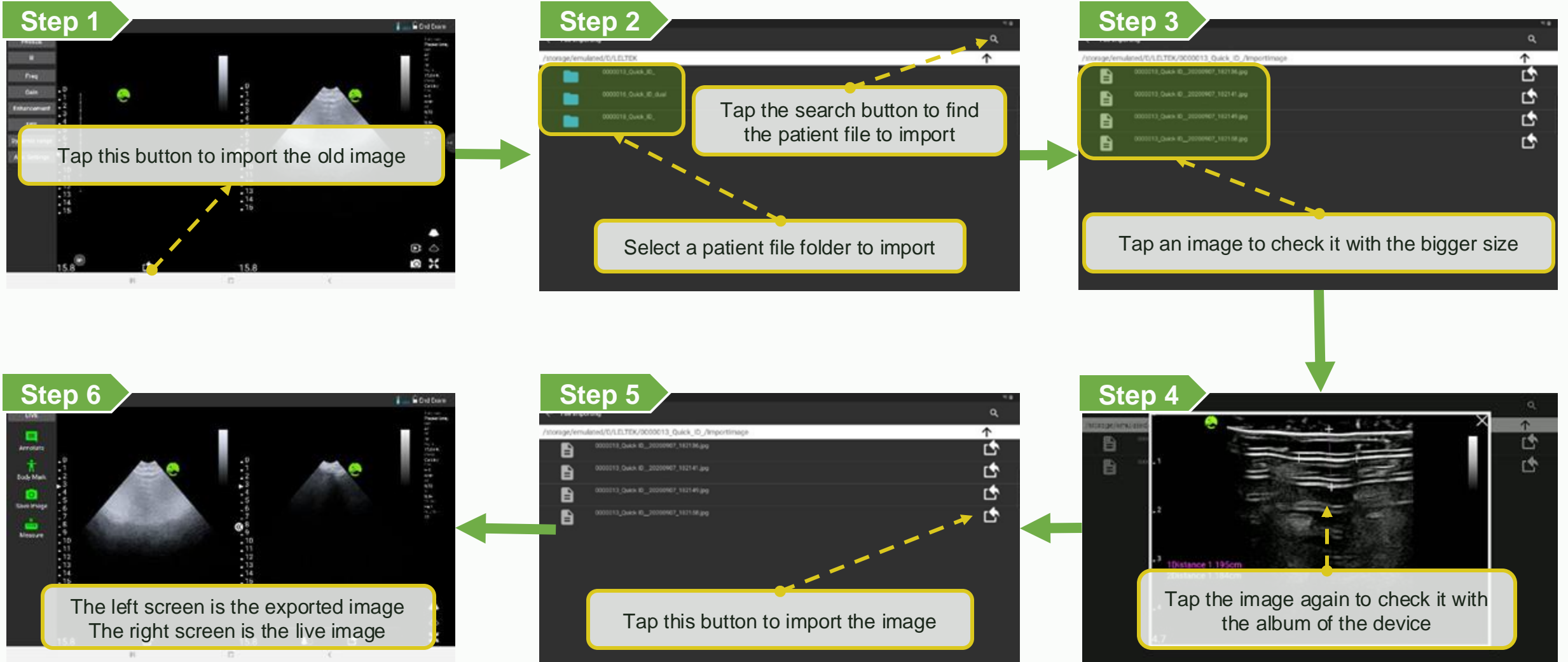


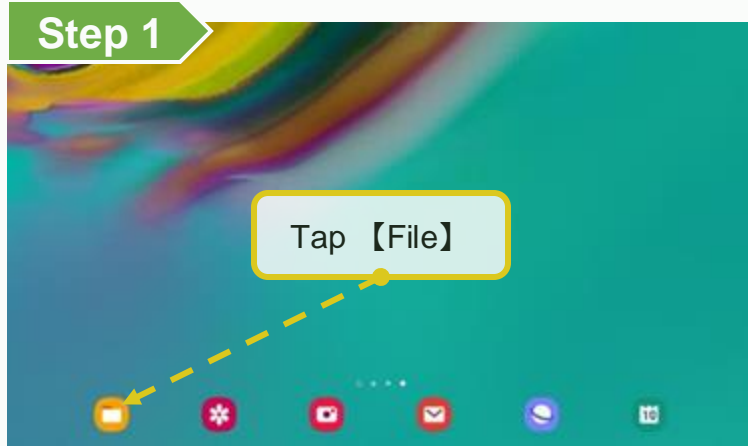
**【Dual screen】**



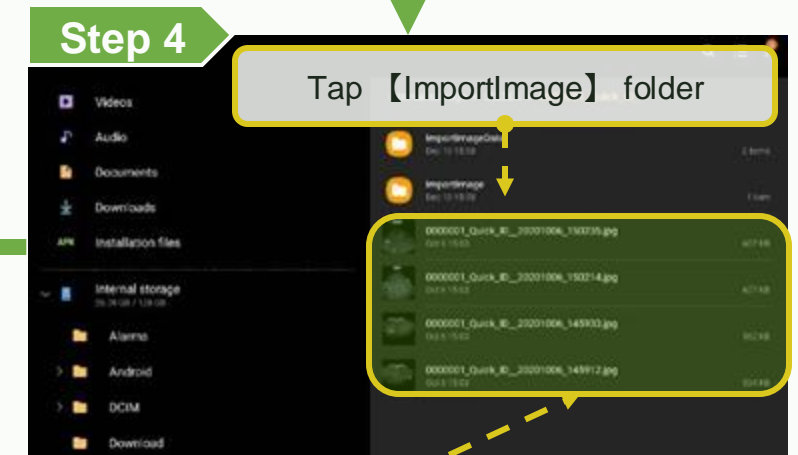
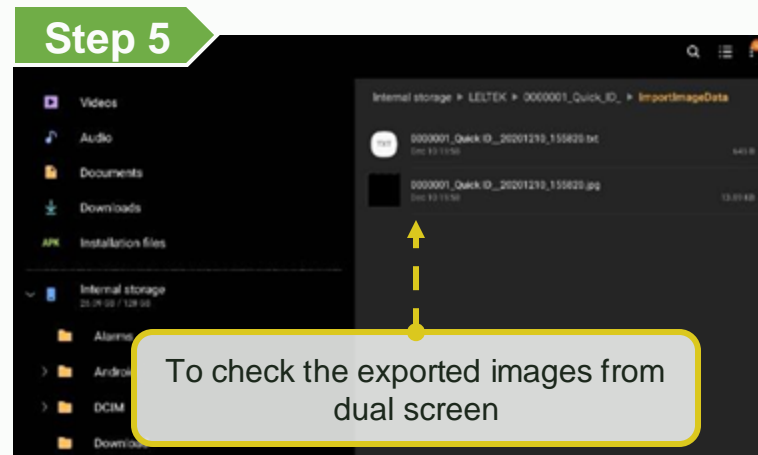
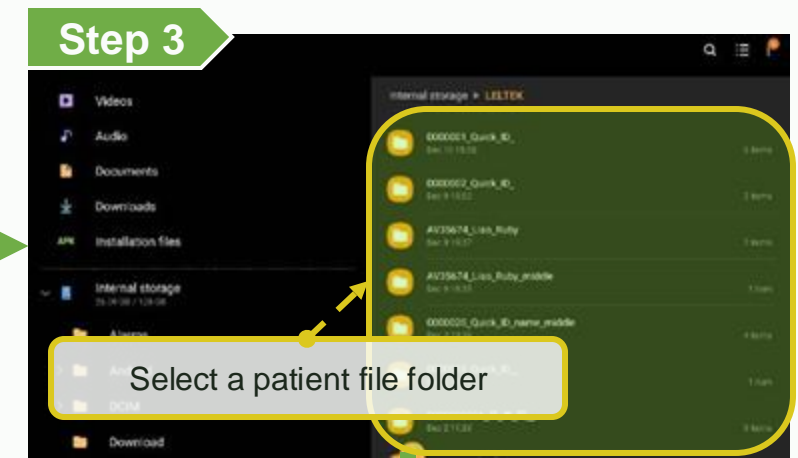
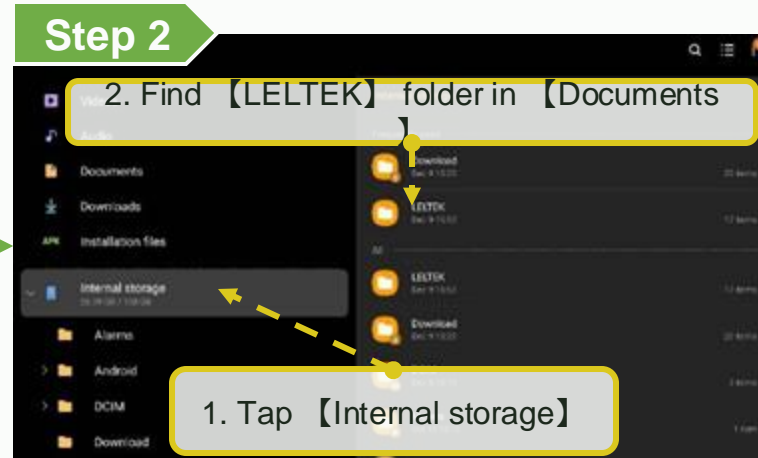








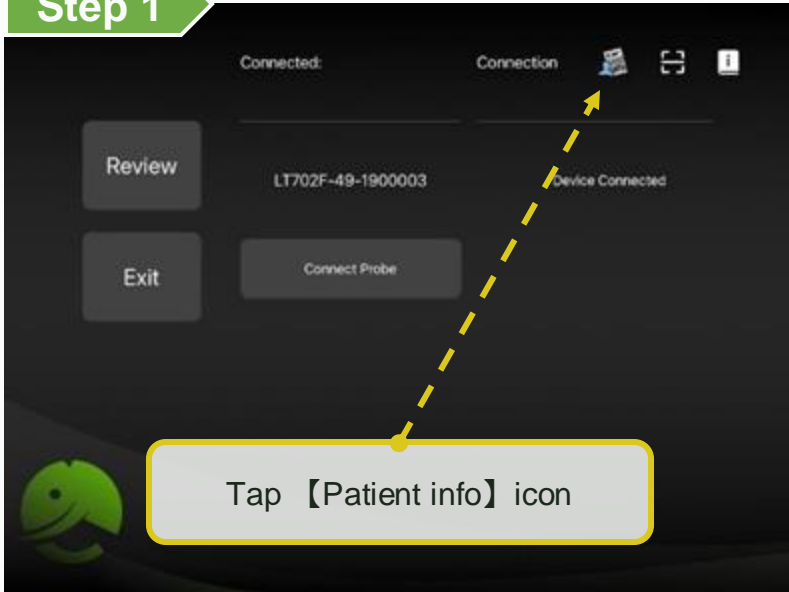
The folder where files are placed in each smart device is different, please refer to the device manual



The exported images from **[Export file]** cannot be imported to dual screen


**【 DICOM support 】**

### Step 1



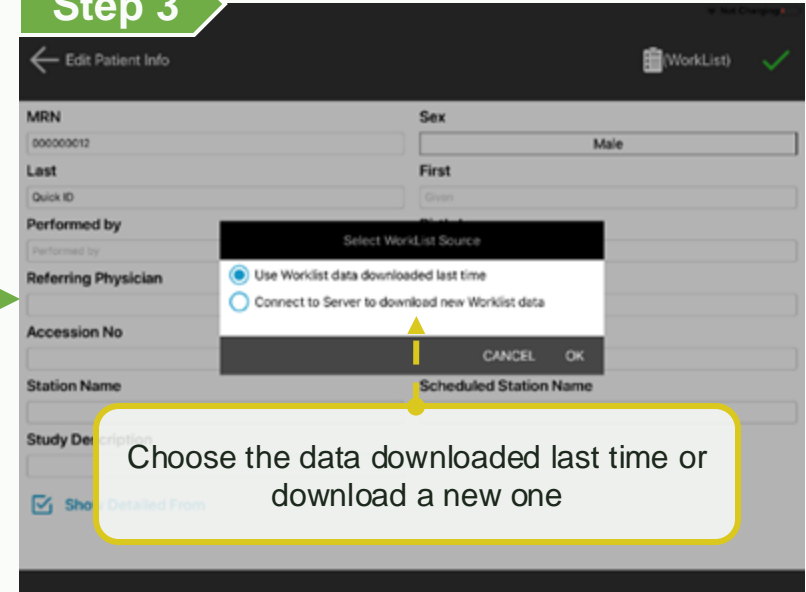
Tap **【Patient info】** icon

### Step 2



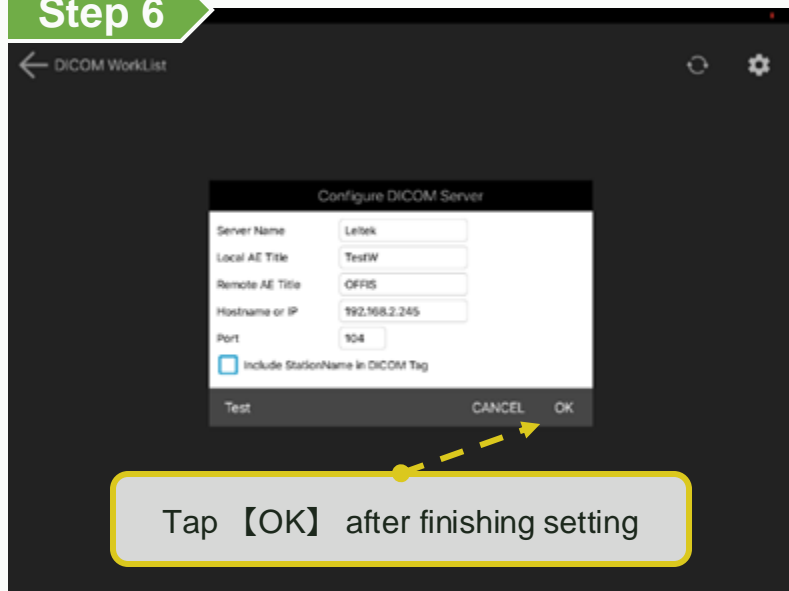
Tap **【Worklist】**

### Step 3



Choose the data downloaded last time or download a new one

### Step 6



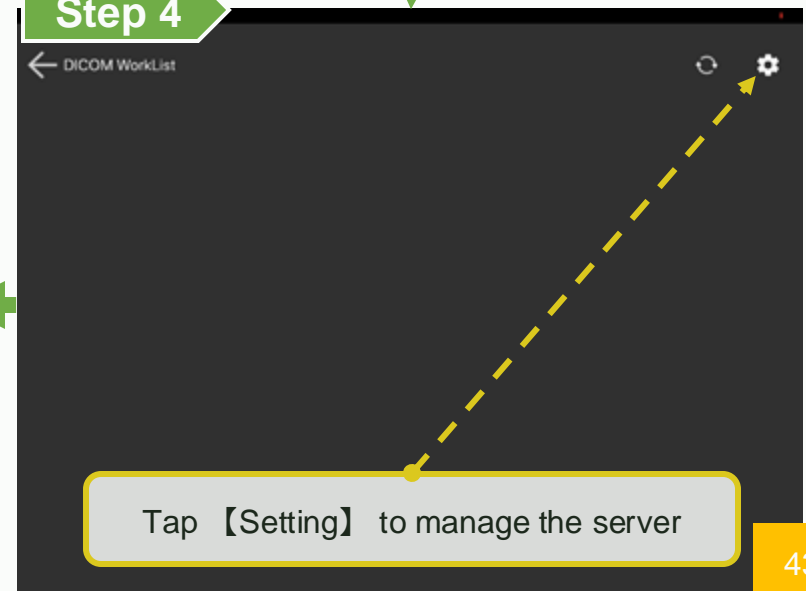
Tap **【OK】** after finishing setting

### Step 5



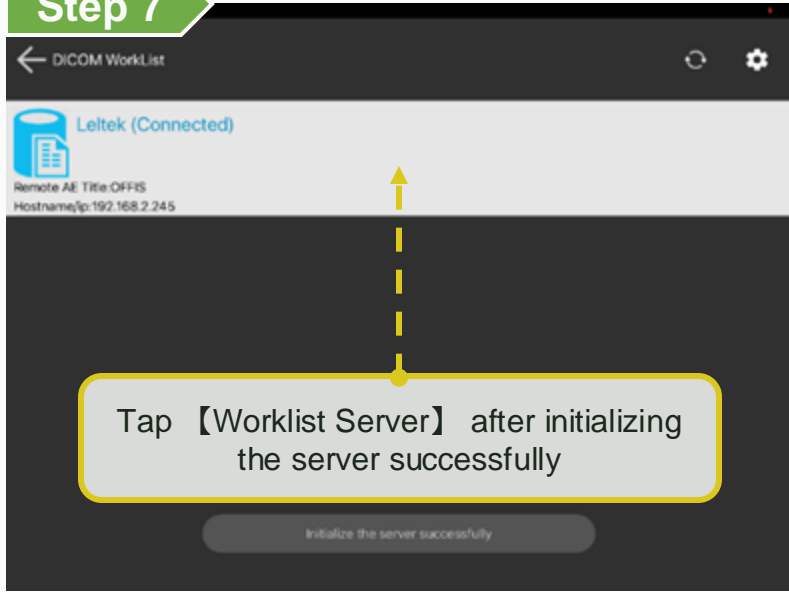
Tap **【Add New】** to add a server

### Step 4



Tap **【Setting】** to manage the server

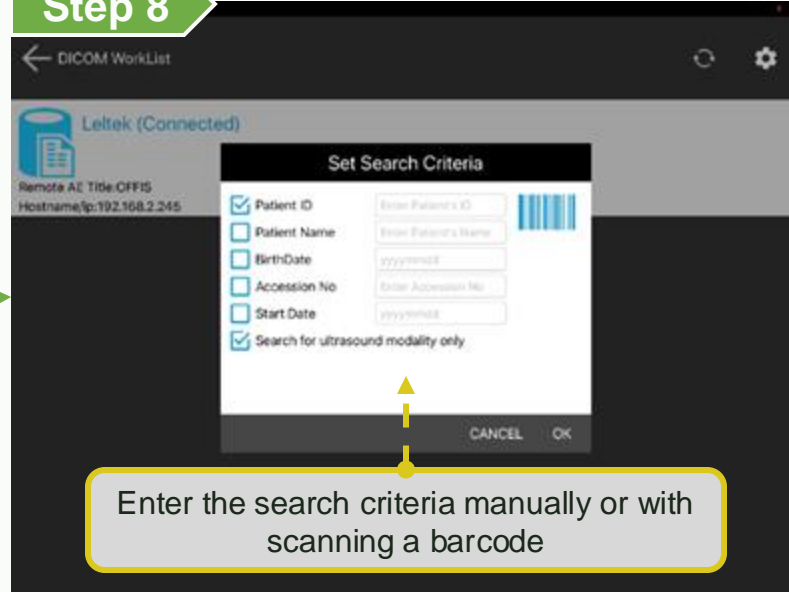
### Step 7



Tap **【Worklist Server】** after initializing the server successfully

Initialize the server successfully

### Step 8



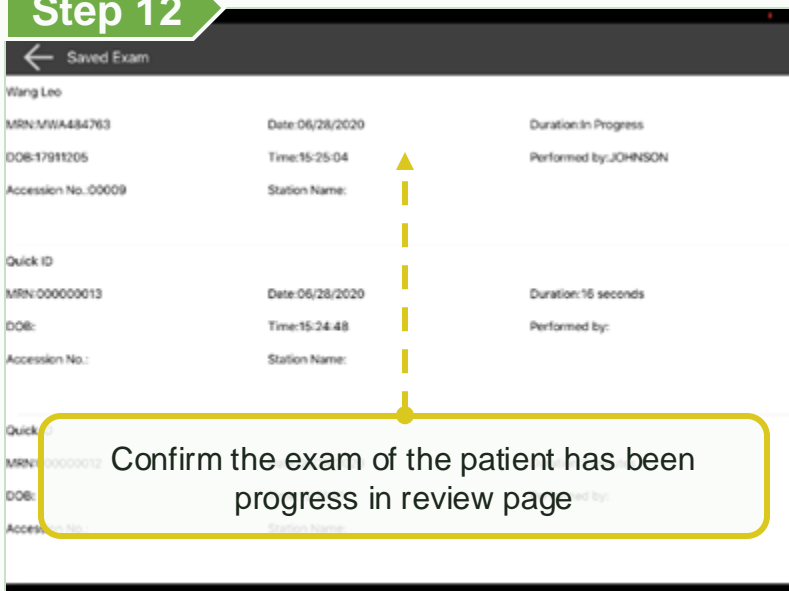
Enter the search criteria manually or with scanning a barcode

### Step 9



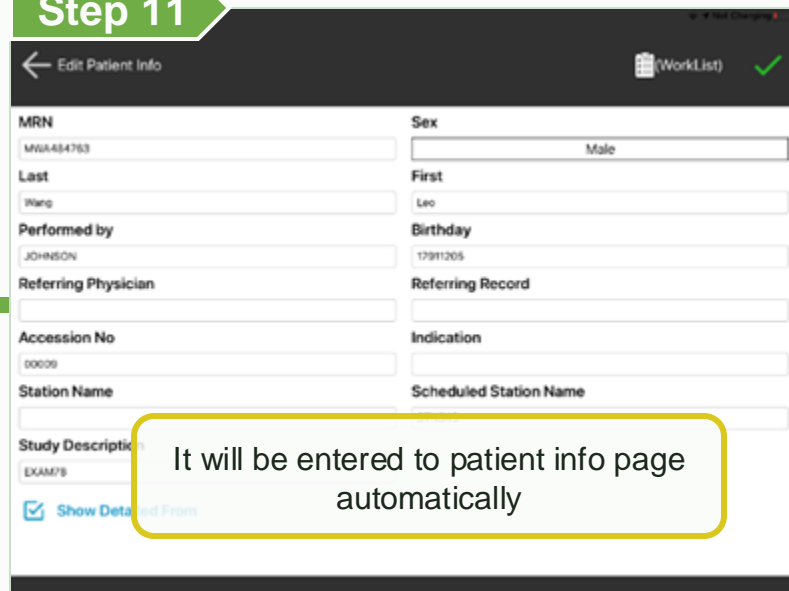
Scan the barcode

### Step 12



Confirm the exam of the patient has been progress in review page

### Step 11



It will be entered to patient info page automatically

### Step 10



Choose a patient

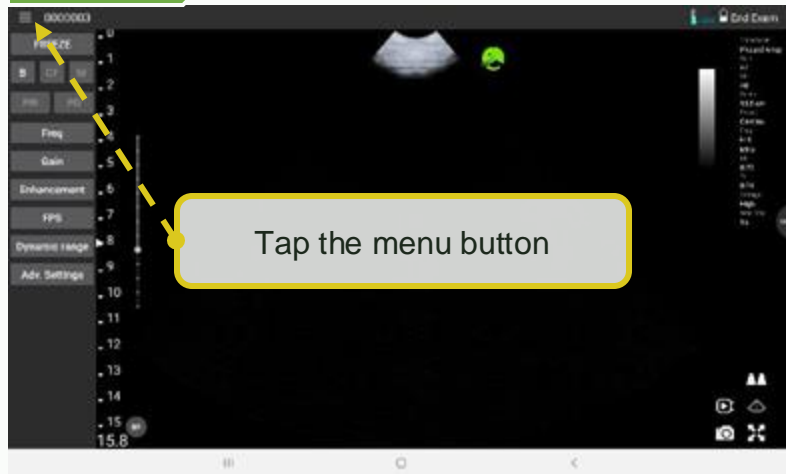


# DICOM support - Make multi-frame DICOM

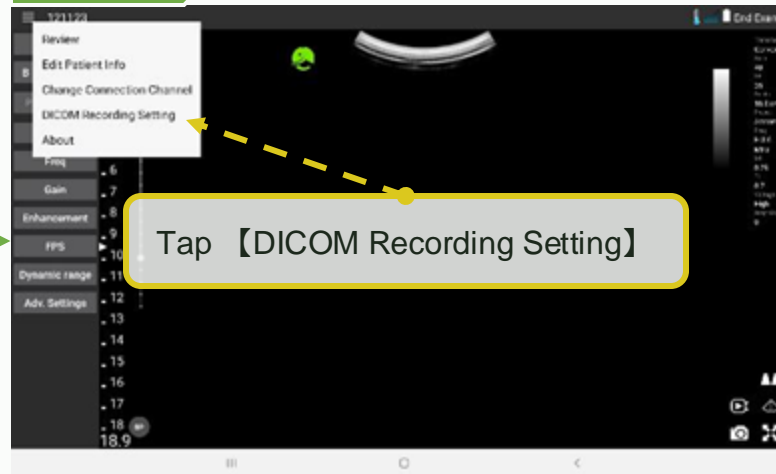
\*Optional function

E.I. MEDICAL IMAGING

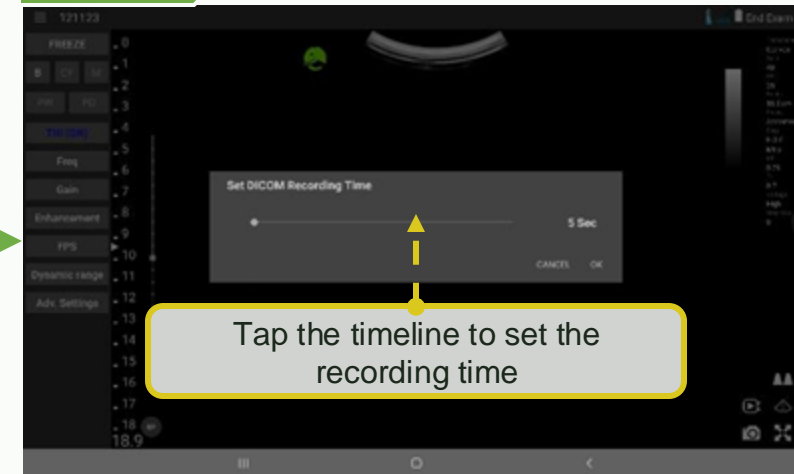
Step 1



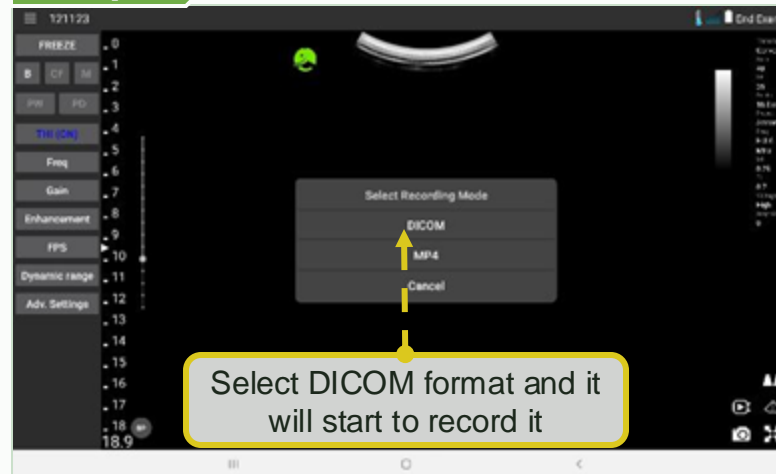
Step 2



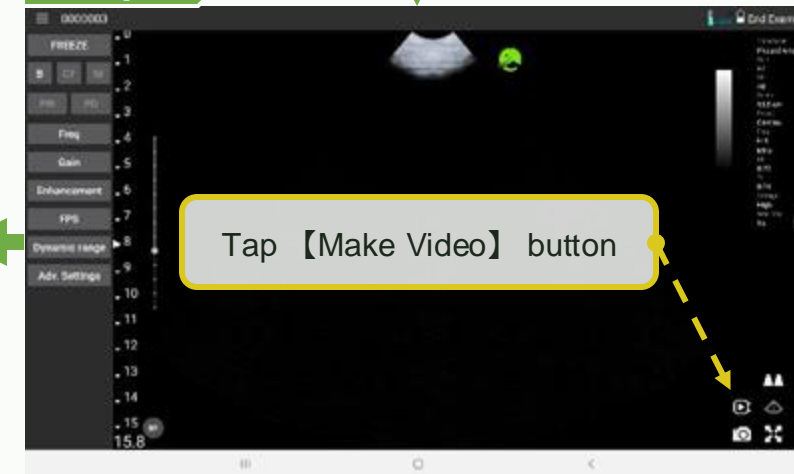
Step 3

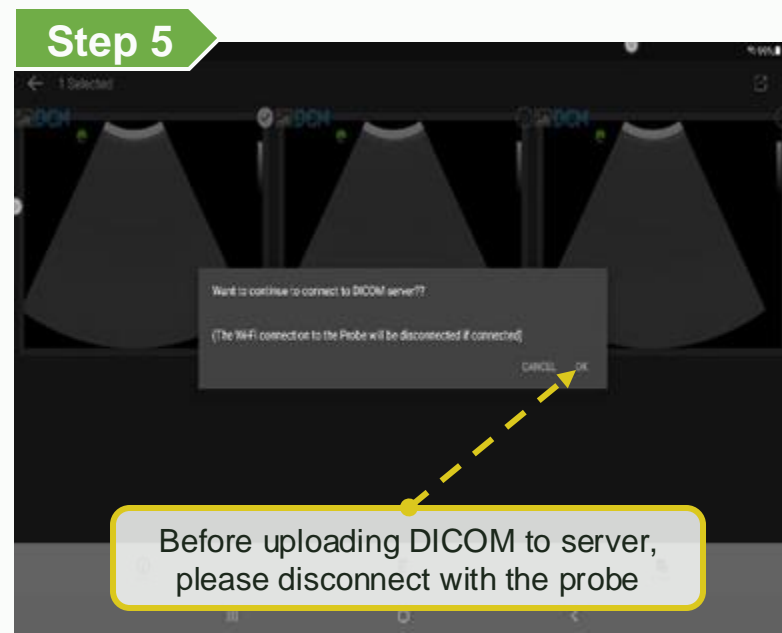
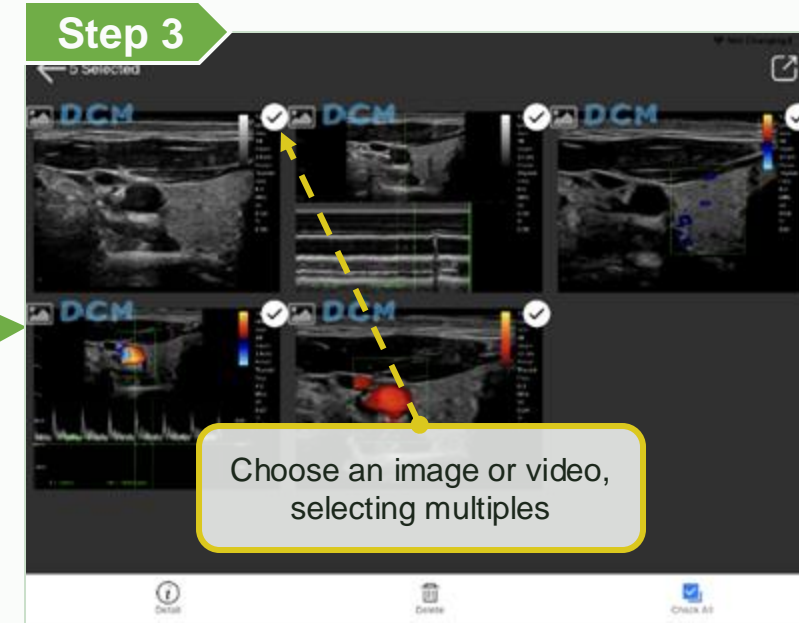
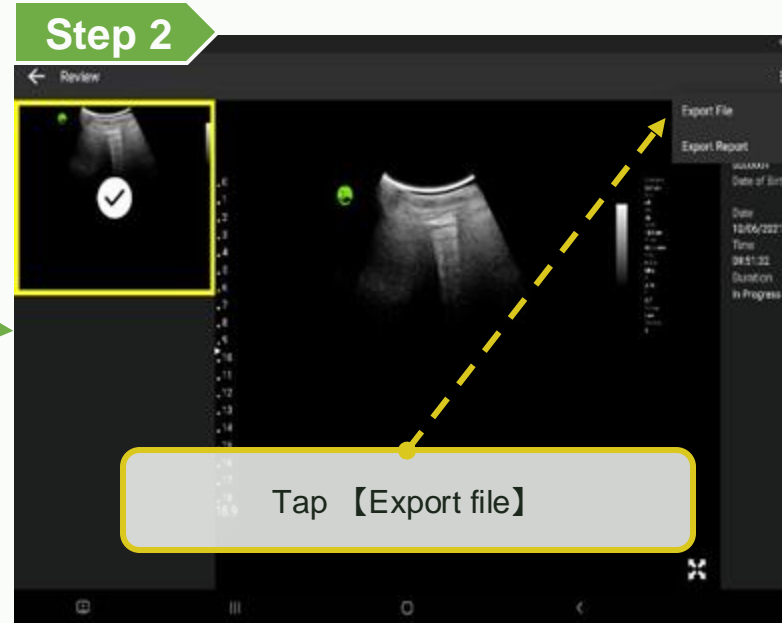
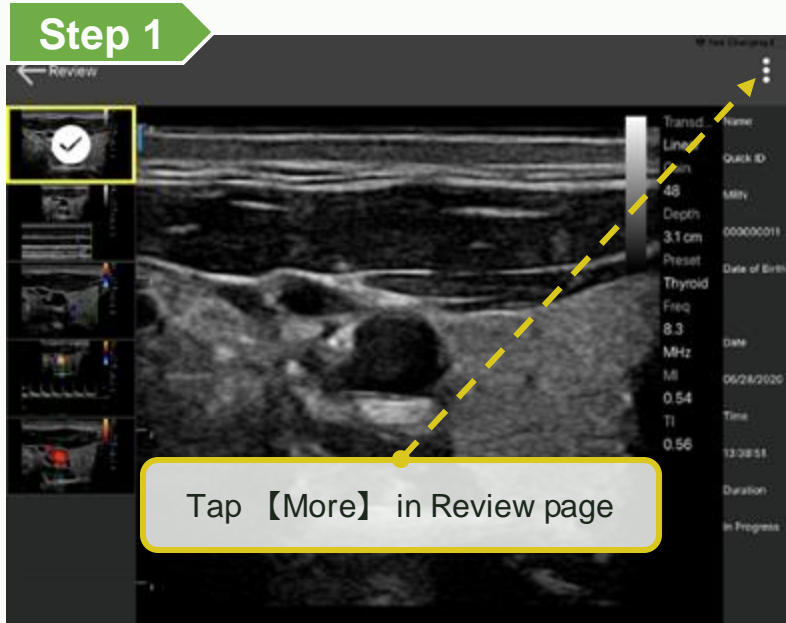


Step 5

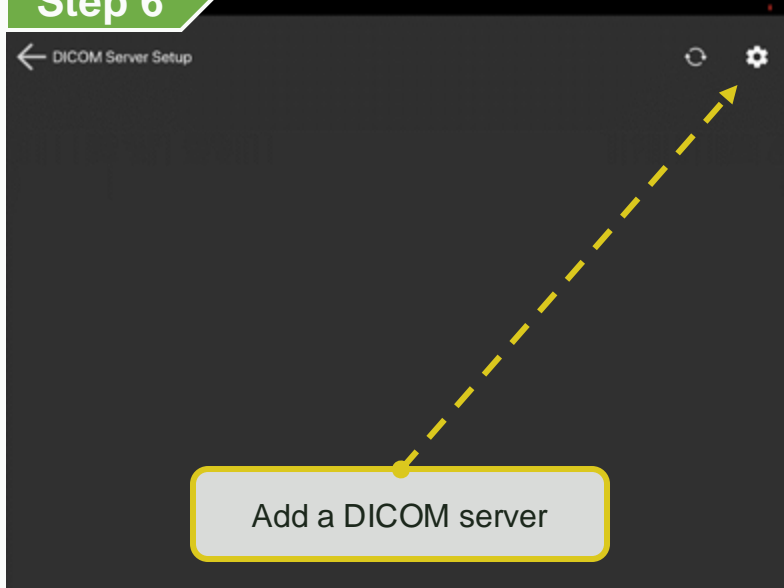


Step 4





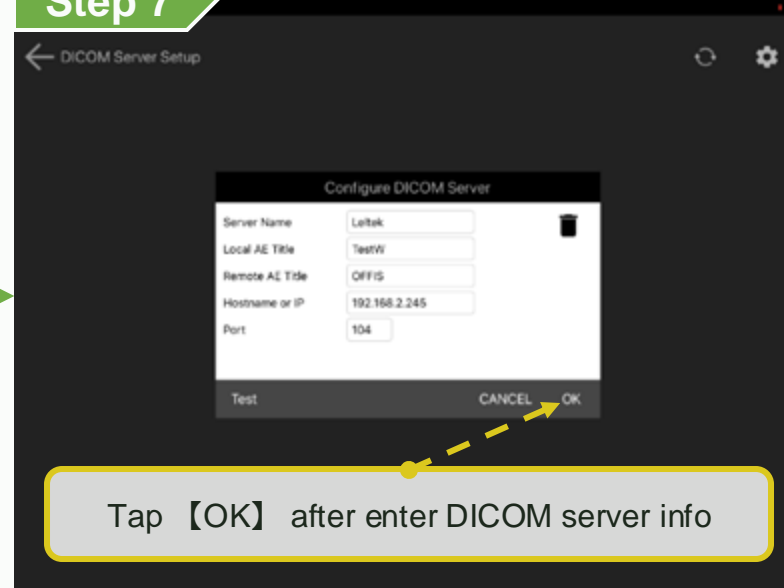
**Step 6**



← DICOM Server Setup

Add a DICOM server

**Step 7**



← DICOM Server Setup

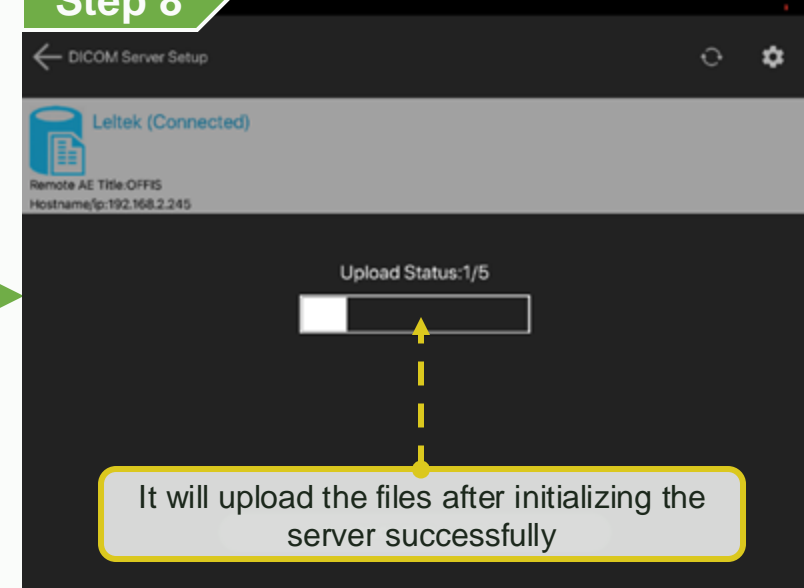
Configure DICOM Server

Server Name	Leitek
Local AE Title	TestW
Remote AE Title	OFFIS
Hostname or IP	192.168.2.245
Port	104

Test CANCEL OK

Tap **【OK】** after enter DICOM server info

**Step 8**



← DICOM Server Setup

Leitek (Connected)

Remote AE Title: OFFIS  
Hostname: 192.168.2.245

Upload Status: 1/5

It will upload the files after initializing the server successfully

**Step 9**



← DICOM Server Setup

Leitek (Not Connected)

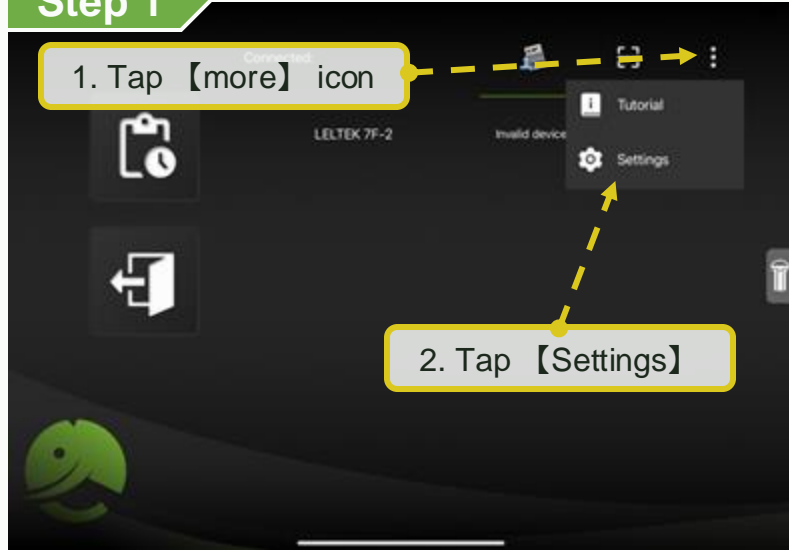
Remote AE Title: OFFIS  
Hostname: 192.168.2.245

Upload DICOM files successfully

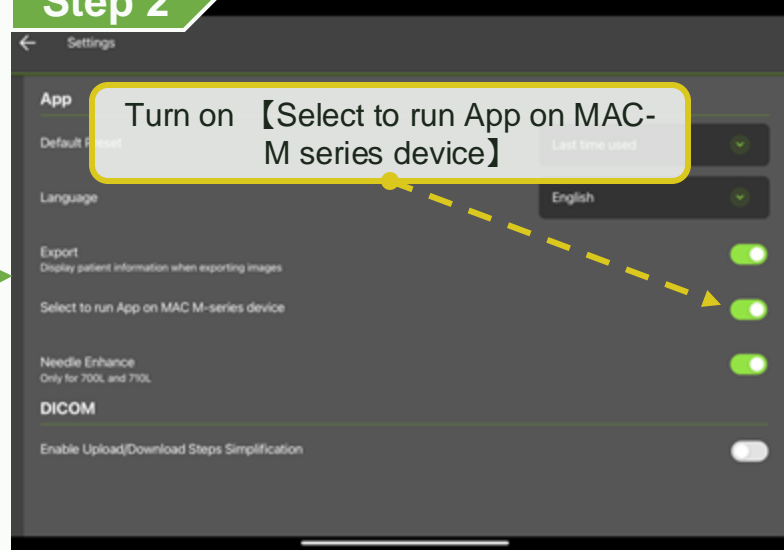
Send DICOM file Completed !!

**【 Run App on MAC M-series device】**

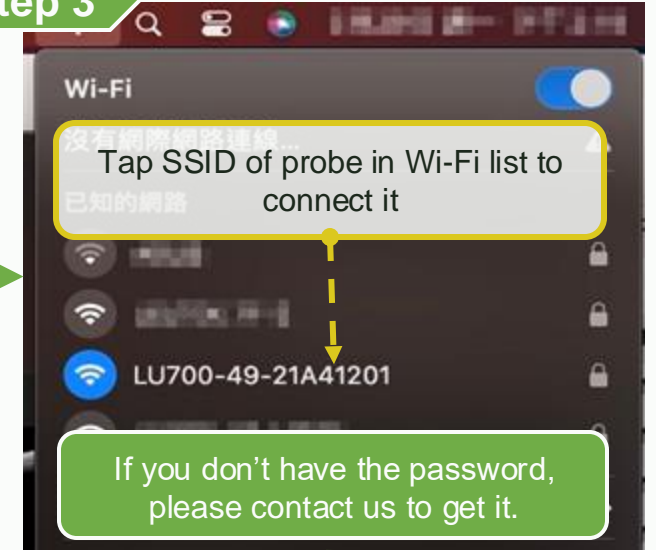
## Step 1



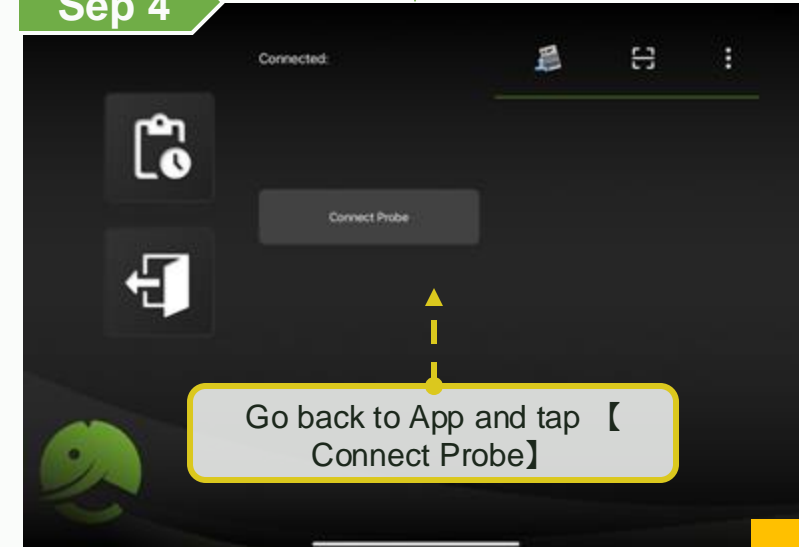
## Step 2



## Step 3



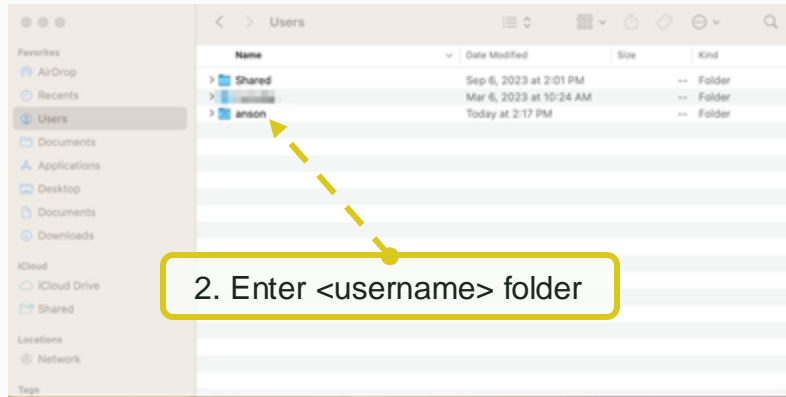
## Sep 4



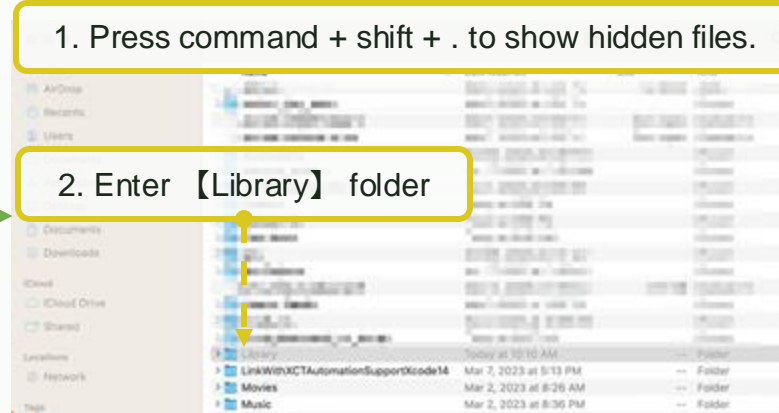


# Find the images exported on MAC M-series device

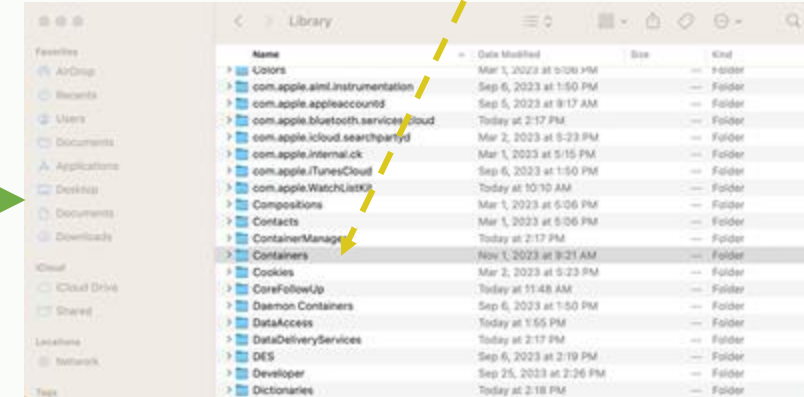
**Step 1** 1. Turn on **Finder**



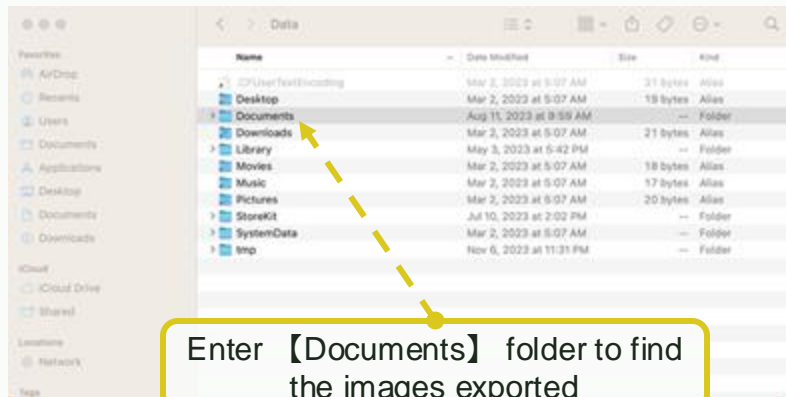
**Step 2** 1. Press command + shift + . to show hidden files.



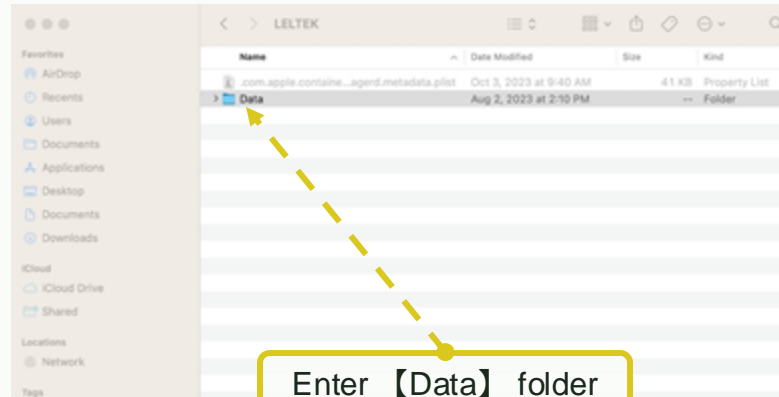
**Step 3** Enter **[Containers]** folder



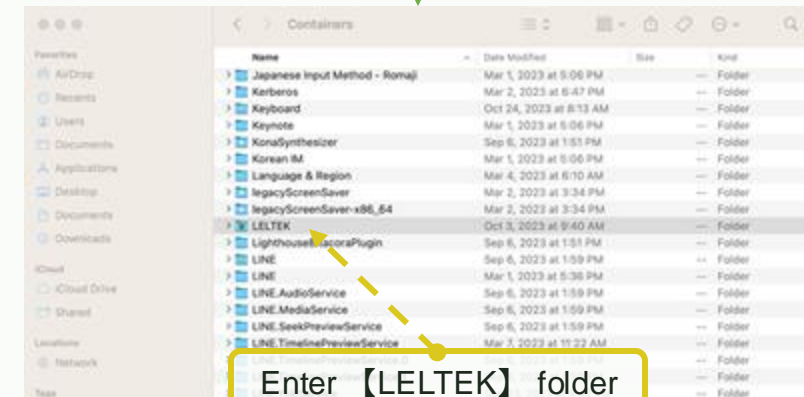
**Step 6**



**Step 5**

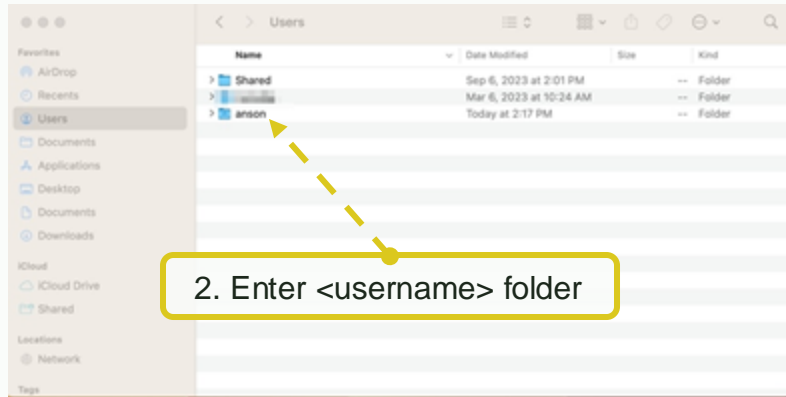


**Step 4**

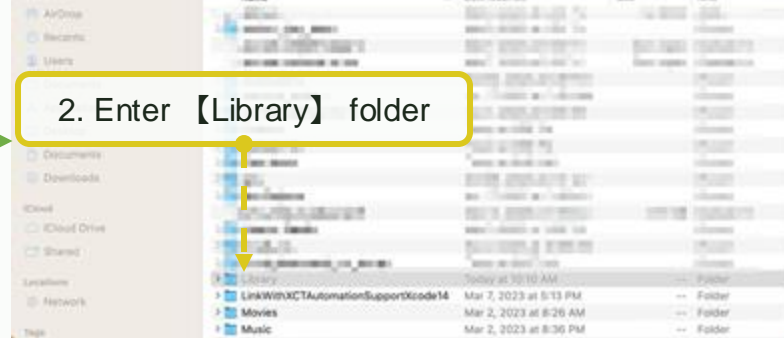


# Create shortcut for the image exported folder on MAC M-series device

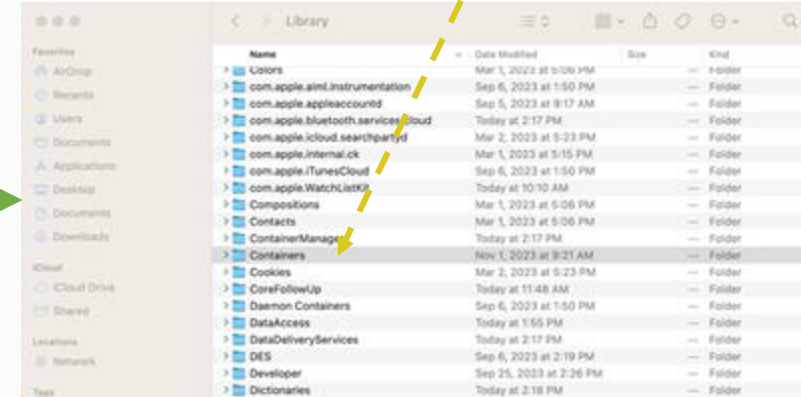
**Step 1** 1. Turn on **Finder**



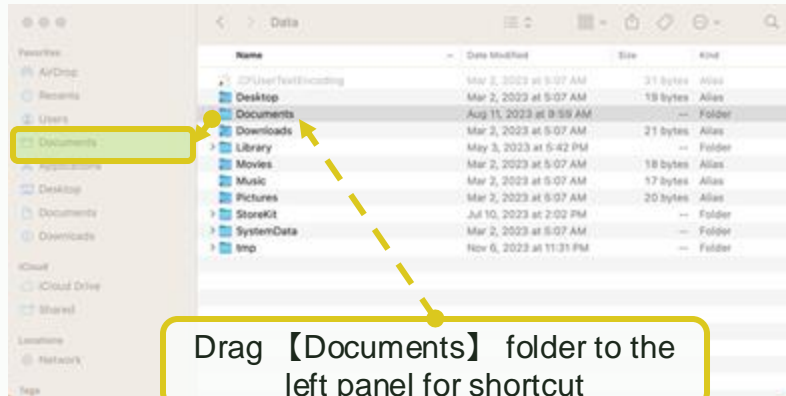
**Step 2** 1. Press command + shift + . to show hidden files.



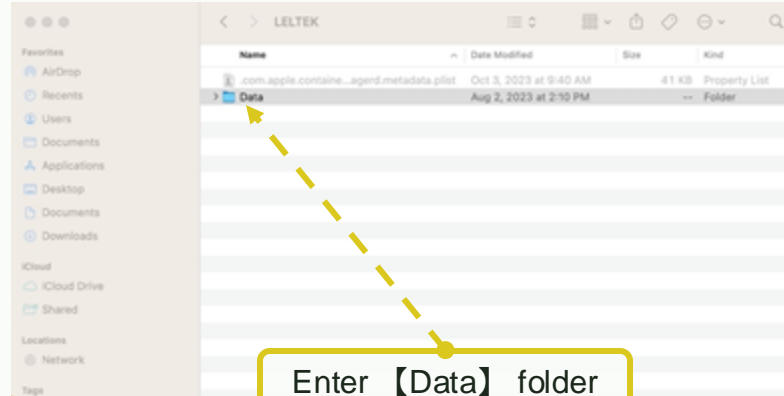
**Step 3** Enter **[Containers]** folder



**Step 6**



**Step 5**



**Step 4**

