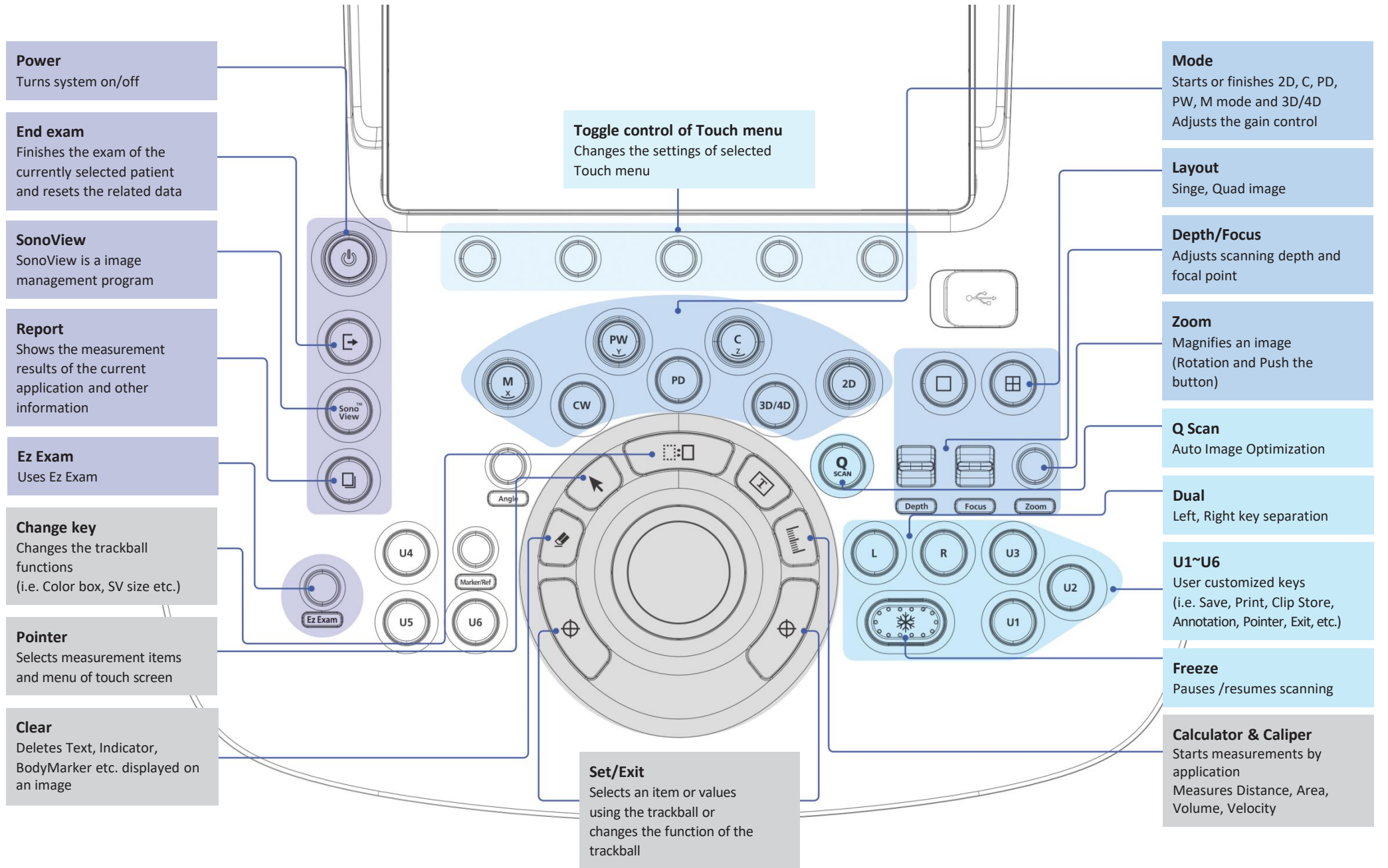


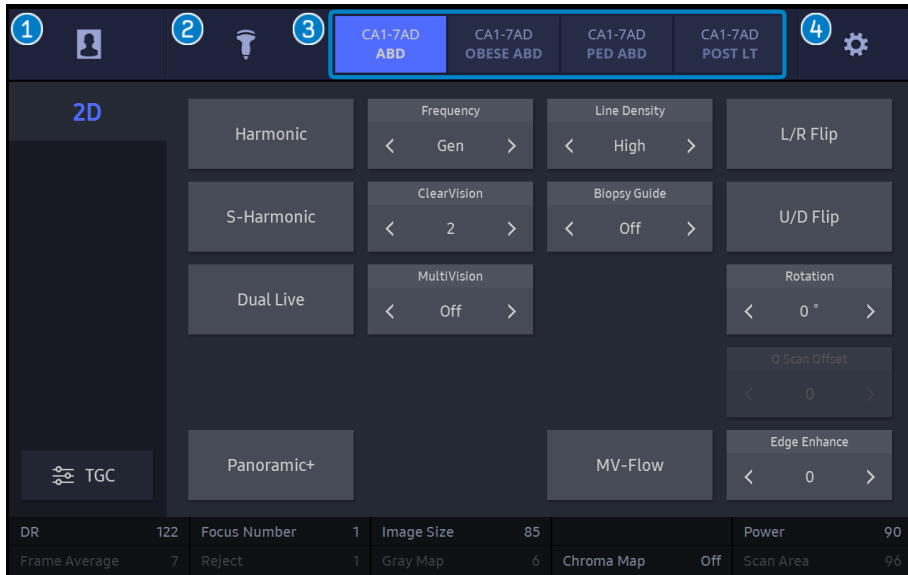
HS60 HS50

Quick Manual



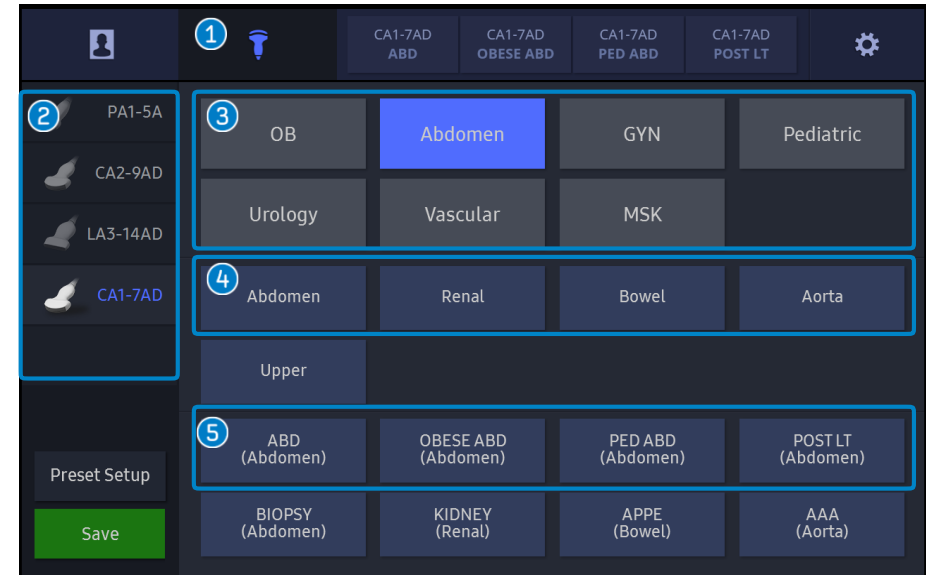


Information Area



- 1 Patient** Display/enter the Patient Information. You can select a patient ID from worklist or enter a new patient information manually.
- 2 Probe** Displays the Probe Selection screen to select or change the probe and application.
- 3 Quick Preset** Shows the frequently used presets. Changes both probes and presets simultaneously. (Select up to 4 presets on set up menu.)
* Setup → System → Quick Preset
- 4 Setup** Configures the general system setting.

Probe Selection

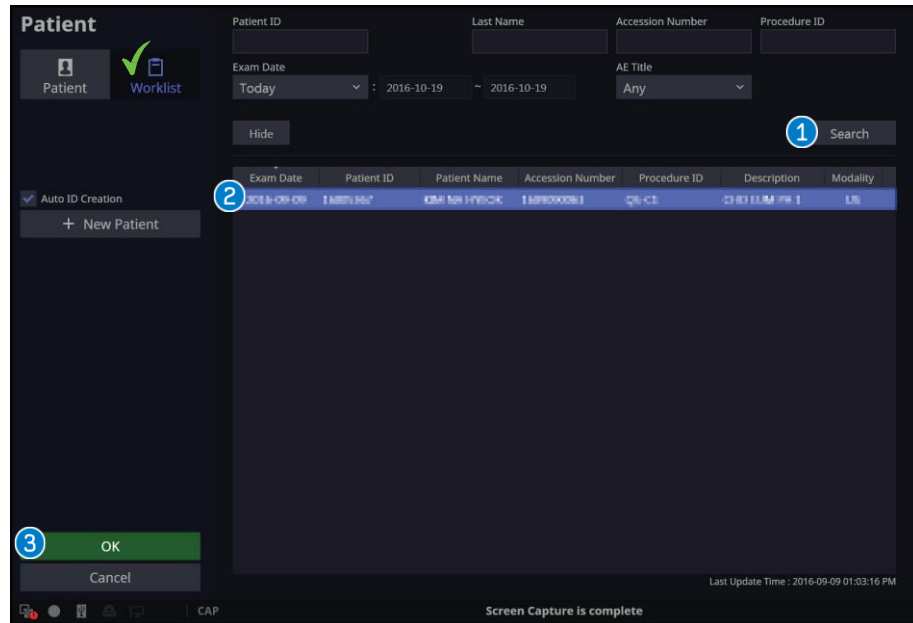


- 1 Probe Selection** Select [Probe] of the touch screen.
- 2 Probe Type** Displays a list of all probes currently connected to the system. Select the probe icon you would like to use.
- 3 Application** Displays a list of applications the selected probe supports.
- 4 Default Preset** Select it when you want to use the factory (default) setting.
- 5 User Preset** User presets can be set as user's preference.

Worklist Search

■ Select [Patient] on the touch screen.

(✓ Worklist search is available only when DICOM is connected.)



1 Search

When you click [Search], the list of patients who match the search criteria will be displayed.
(Patient list update)

2 ID Select

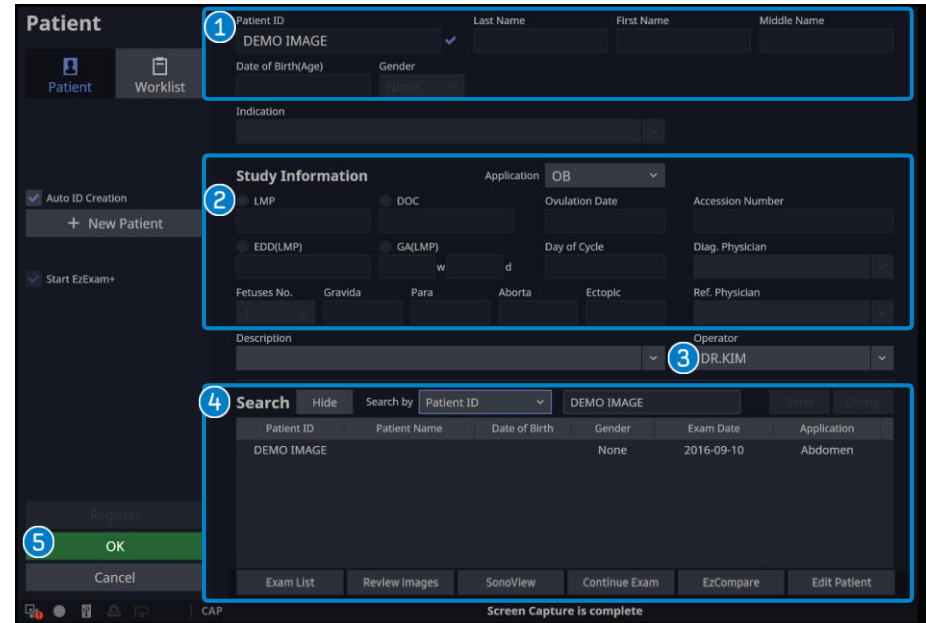
Select the patient list and double click.
This applies the selected patient information to the system.

3 Start Exam

Click [OK] applied the patient information to the system and switches the system into scanning mode.

Registration of Patient

■ Select [Patient] on the touch screen then select [Patient] () on the monitor screen.



1 Insert ID

Enter patient ID, name, and other types of basic patient.

2 Study Information

Add required information for individual applications.
* Enter the obstetrical information.
Application OB tab → LMP, EDD, Fetuses No, etc.

3 Operator

Enter the name of the physician who scanned the patient.

4 Start Exam

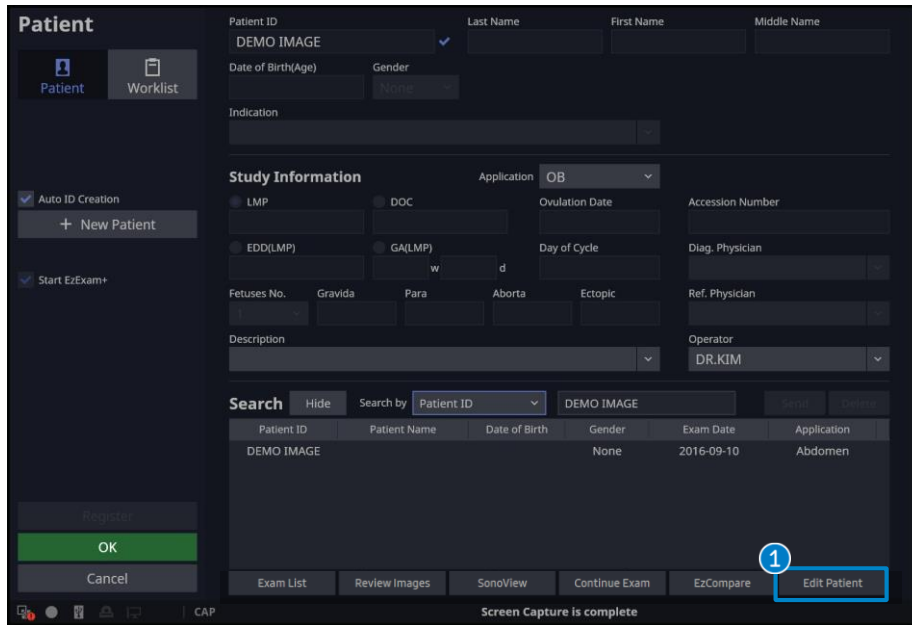
Click the [OK] to enter scan mode.

5 Searching Patient Information

Search stored exams in the system.
The selected patient information will be applied to the system.

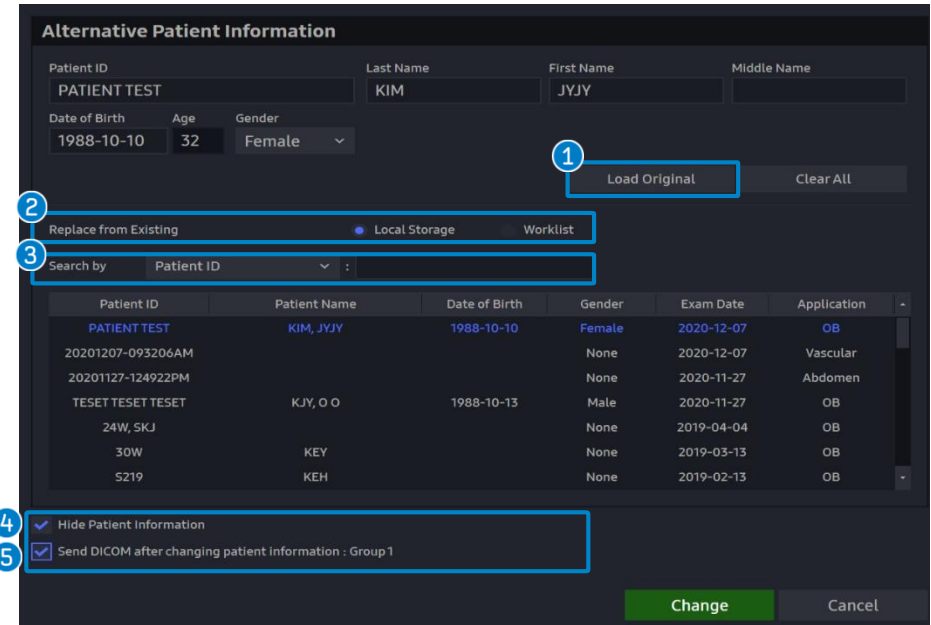
Edit Patient

- Select [Patient] on the touch screen then select [Patient] (✓) on the monitor screen.



1 Edit Patient

Tap on the [Edit Patient] to change the patient information and ID.



1 Load Original

Return to the original patient information.

2 Replace from Existing

Select the exam from Local Storage or Worklist that you want to replace as its patient information.

3 Search by

Search the exam by Patient ID/Patient Name / Date of Birth/ Exam Date

4 Hide Patient Information

It will be hidden on PACS viewer even that newly sent

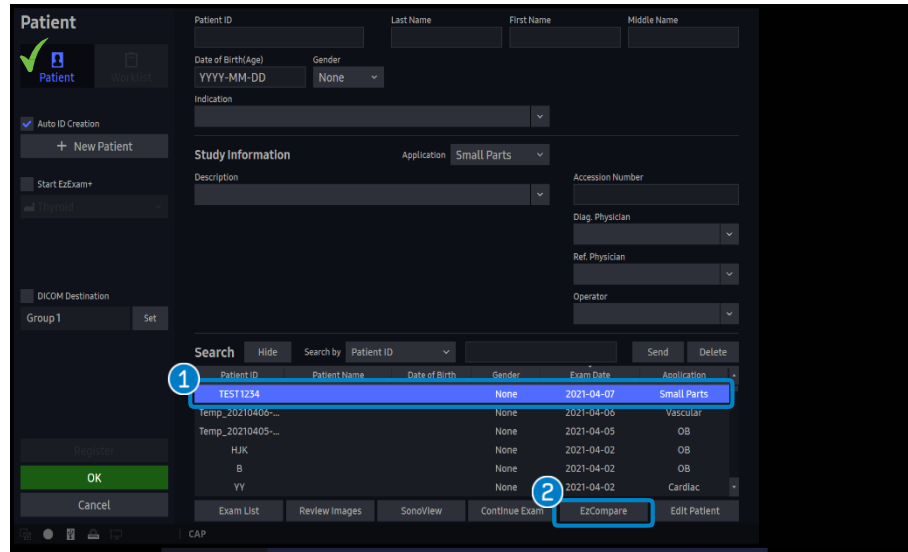
5 Send DICOM

Transfer the revised study to the DICOM by click the [Change] button.

Edit Patient: Only available within 24 hours.
Not supported condition : Study ongoing status, DICOM transferring status or during Sonoview Export status.

EzCompare

■ [EzCompare] will automatically match the image settings with previous study.

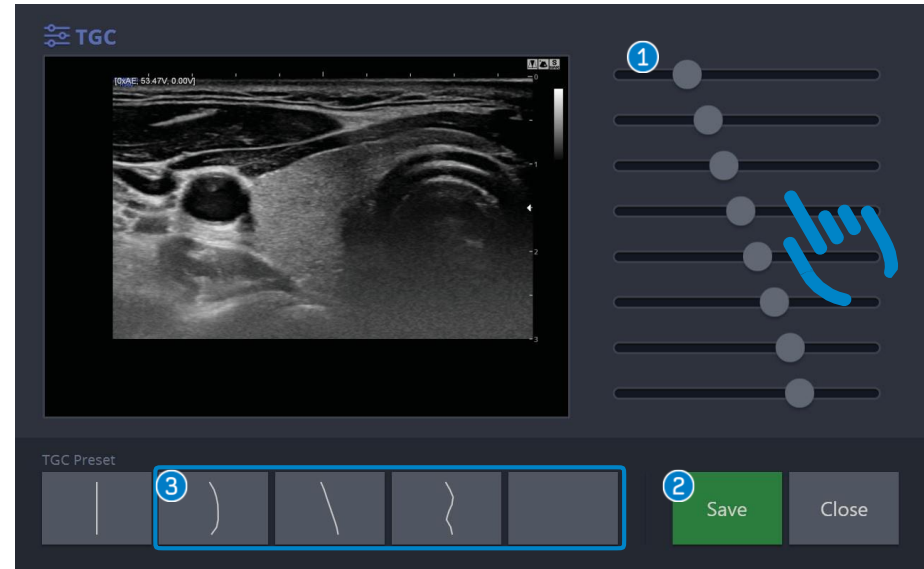


- 1 **ID Select** Select the ID from the patient list using the trackball and [Set].
- 2 **Select [EzCompare]** Switching to [EzCompare] mode and move to scan mode.
- 3 **Check Thumbnail Field** The stored images are displayed as thumbnail and date tab appears.
- 4 **Compare Prior study** On one side of the screen, selected images are displayed. On the other side, live scan image will be displayed as identical setting of selected image. (Dual screen)

* EzCompare is an optional feature of this product.

Digital TGC

■ Select the [TGC] on the Touch Screen.



- 1 **TGC Line Adjustment** Change the TGC line by dragging with fingers.
- 2 **Save** Save the changed TGC line.
- 3 **Designation of Location** Select the save location. Up to 4 appropriate curve settings to the user preset setting are possible to set.

Touch Screen – Scan mode



Line Density

Selecting [High] increases the number of scan lines and improves the image resolution.

L/R Flip U/D Flip

Flips the image horizontally, vertically.

Biopsy Guide

Adjusts the biopsy guideline before using the biopsy feature.

Trapezoid

Changes rectangular format from linear probe to trapezoidal format, so can provide wider view angle.

Rotation

Selects a rotation angle to either 0°, 90°, 180° or 270°.

Edge Enhance

Allows you to view more accurate images of organ or tissue boundaries.

MV-Flow

Micro vascular visualization with superior sensitivity. (HS60 only)

Harmonic

Adjusts contrast resolution of image. Provides the OHI (Optimal Harmonic Imaging) high frequency function to optimize images.

Frequency

Configures the probe's frequency. Adjusts penetration to resolution.

S-Harmonic

Provides more clear image from near to far zone using wide band frequency.

ClearVision

Removes noise and enhances outlines to make the image more clearly.

Dual Live

Displays 2D image and Color Doppler image simultaneously.

MultiVision

The spatial compound image by using multi-beam.

ElastoScan

Provides elasticity imaging of an object and strain ratio of tissue. (This is the optional feature.)

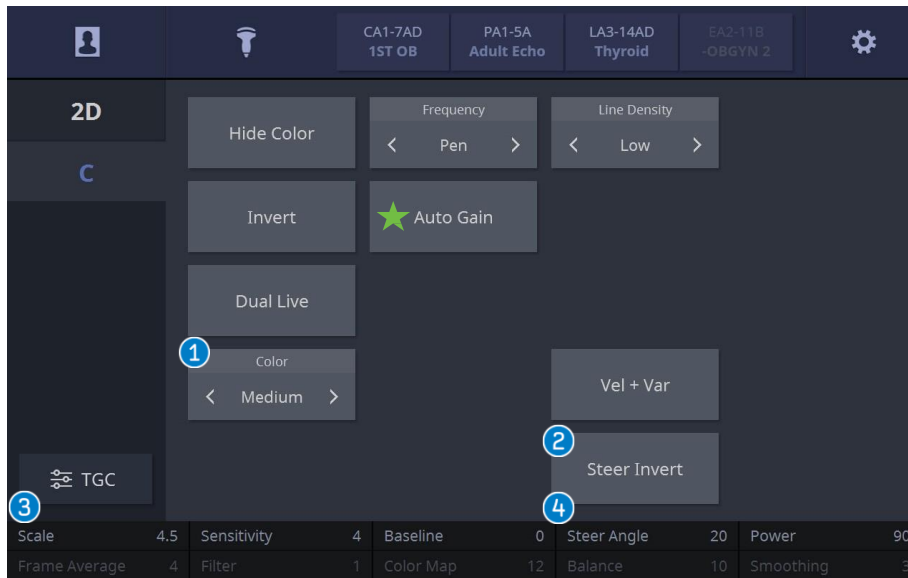
Panoramic

Acquires wider image range via reconstructing multiple frames.

Needle Mate+

Provides better needle visibility. (Needle enhancement)

Color/PD Doppler/S-Flow



- 1 Color** Automatically adjust the appropriate color scale.
- 2 Steer Invert** Inverts the direction of Color box.
- 3 Scale** Adjusts the PRF. (Pulse Repetition Frequency)
- 4 Steer Angle** Adjusts the angle of color box. (-20, -15, -10, 0, 10, 15, 20)
- S-Flow** High sensitivity bi-directional Power Doppler mode for tiny vessels. (Access from PD mode → S-Flow mode)

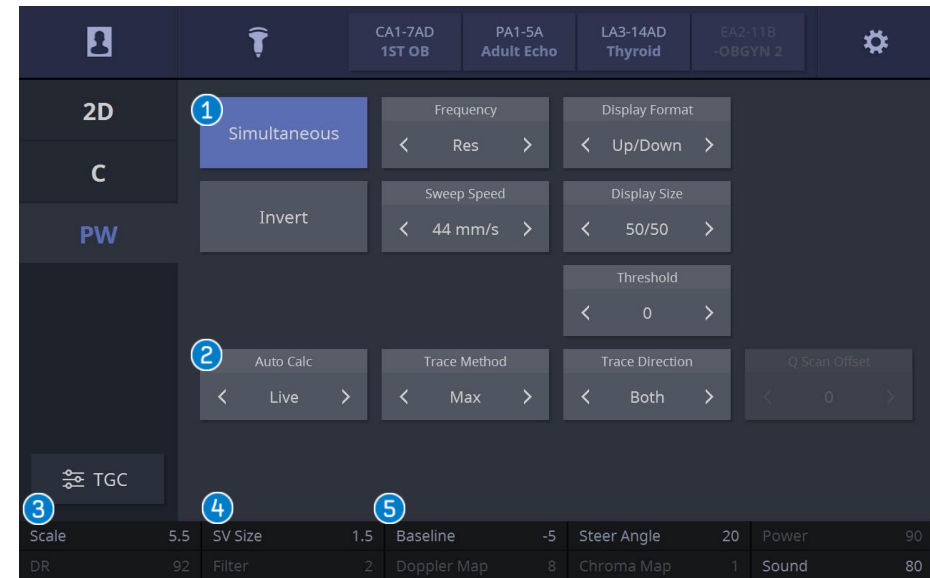
Smart Dynamic Color

★ Auto Gain

Select [Auto Gain] on the touch screen in Artery, Carotid preset.


- Adjusts proper Color gain automatically frame by frame.
- The dynamic color coding up on blood pressure can be controlled via [Auto Gain] function.

PW/CW Doppler



- 1 Simultaneous** Views real-time 2D and Spectral Doppler image at the same time.
- 2 Auto Calc** Automatically calculate the values of Doppler.
- 3 Scale** Adjusts the PW/CW PRF. (Pulse Repetition Frequency)
- 4 SV Size** Selects a SV size between 0.5~20mm.
- 5 Baseline** Adjusts baseline by rotating dial-button.

Smart Auto Doppler * This function is only available in Vascular preset of linear probe.

Select [Quick Scan]  on the control panel in the Doppler mode.

- Location of the ROI box, the sample volume position, and the direction of the Steer angle can be controlled by one click.
- Improves the complex UI Workflow of Doppler mode.

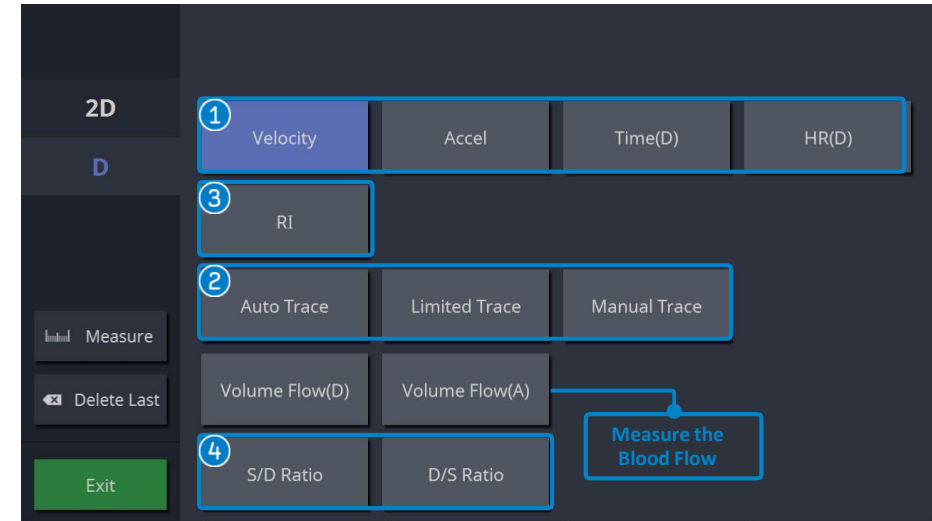
Measurement

■ Caliper & Measure



Data measurement by application (OB, Cardiac, Vascular, Prostate, etc.)

Measures (using a trackball and [set]) selected items (i.e. Distance, Area, Volume, Doppler measure etc.)



1	Distance Distance Open Spline Trace Length	Measures the straight distance between 2 points. Measures traced curved-line. Uses the trackball to draw the desired curve.
2	Area Ellipse Trace & Closed Spline	Measures the circumference area. Measures the trace and area of an irregular object.
3	%Stenosis(D) %Stenosis(A)	Diameter & Area of a vessel is measured and the stenosis ratio is calculated.
4	Angle 3 Point 2 Line	Measures the angle using 3 points. Measures the angle between 2 lines.

1	Velocity * Accel Time(D) HR	Measures the velocity at 1 specified point. Measures the velocity to calculate the time and acceleration. Calculates the time between the bars. Measures the Heart rate between the two bars.
2	Auto Limited Manual	Automatic spectrum trace within whole range. Automatic spectrum trace within specified range. Trace Spectral Doppler wave form and calculate velocity, and the average velocity of blood flow. (includes S/D ratio, RI, PI)
3	RI S/D Ratio D/S Ratio	Measures the RI, S/D ratio and D/S ratio at 2 specified points.

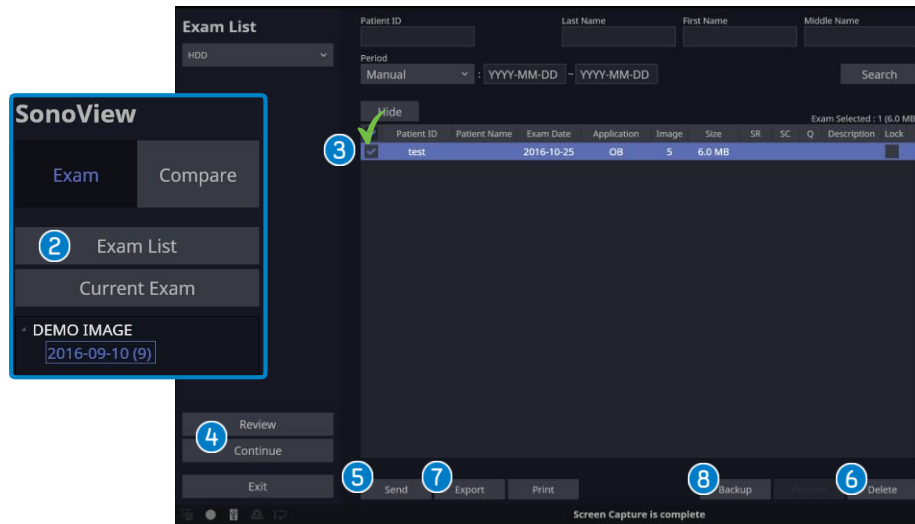
Touch Menu Customization: Buttons on both "Touch Panel" and "Toggle Control" are customizable. (Setup > Customize > Touch Menu)

SonoView – Image Management, Export & Backup

1 Tab [SonoView] of the control panel.



2 Select a exam list of [SonoView] screen. (Open exam list)



3 Select a Exam

Check the combo box (✓) in front of the patient ID in the [Exam List].

4 Review or Continue

Reviews the saved images.
Exams performed longer than 24 hours, only review is allowed.
If the exam was performed within 24 hours from now, append exam is allowed.

5 Send

Transfers the exam to PACS server.
(Select Send → Displayed the DICOM Storage → Select Alias → Transfer)
* Transfer all images on selected exams.

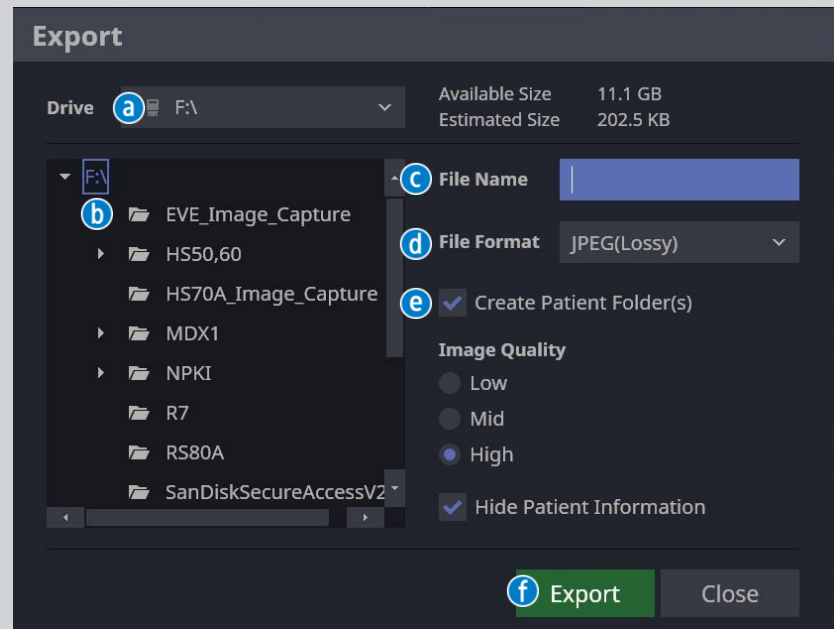
6 Delete

Deletes the exam.

7 Export

Converts image to PC compatible format such as BMP, JPEG, TIFF, AVI, MPEG, DICOM.

- a Select Drive. (CD-G:, USB-H:)
- b Directories – Select the location in which the exam will be saved.
- c Enter the file name.
- d Select file and video format. (BMP, JPEG, TIFF, MPEG, AVI, DICOM) Export
- e Option
 - Hide Patient Information – To remove patient ID and name
 - Create Patient Folder – Categorized files per date and patient ID Click
- f [Export]



8 Backup

Back up and restore data. These backup data only can be review on the system.
Select Backup → Confirm [Yes] → Select Drive → DVD(g:), USB(h:)

SAMSUNG