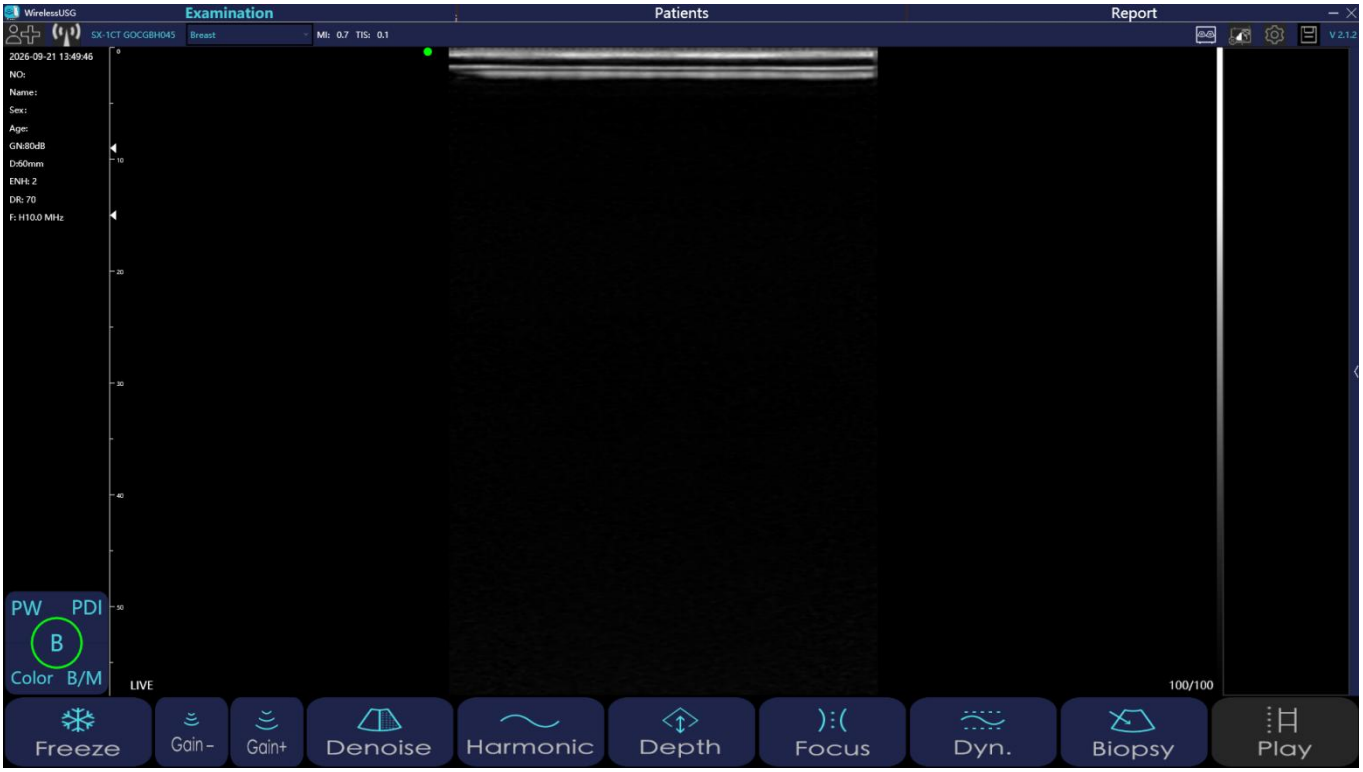
DRSONO

Windows App User Guide

DRSONO Wireless Handheld Ultrasound

Installation | Scanner connection | Imaging controls | Saving and reports



English edition | Windows software version shown 2.0.13

Screens and available imaging modes may vary slightly by software version and connected DRSONO scanner model.

SECTION 01

About This Guide

This guide explains how to install the DRSONO Windows application, connect a DRSONO wireless ultrasound scanner, begin an examination, adjust the image, save images, and export a report as a PDF.

Important. This guide covers software operation only and does not replace clinical ultrasound training. Use the scanner only within its labeled indications and according to applicable professional and institutional requirements.

In this guide

Section	Topic
01	Before you begin
02	Install the Windows application
03	Connect the scanner by Wi-Fi
04	Start an examination and enter patient information
05	Understand the main interface
06	Use B, B/M, Color, PDI, and PW modes
07	Optimize the image
08	Save images and complete the examination
09	Create and save a report
10	Troubleshooting and support

Before you begin

- A Windows 7, Windows 10, or Windows 11 Pro computer.
- An administrator account for software installation.
- The DRSONO Windows installation package supplied by DRSONO.
- A charged DRSONO scanner with the serial number visible on the housing.

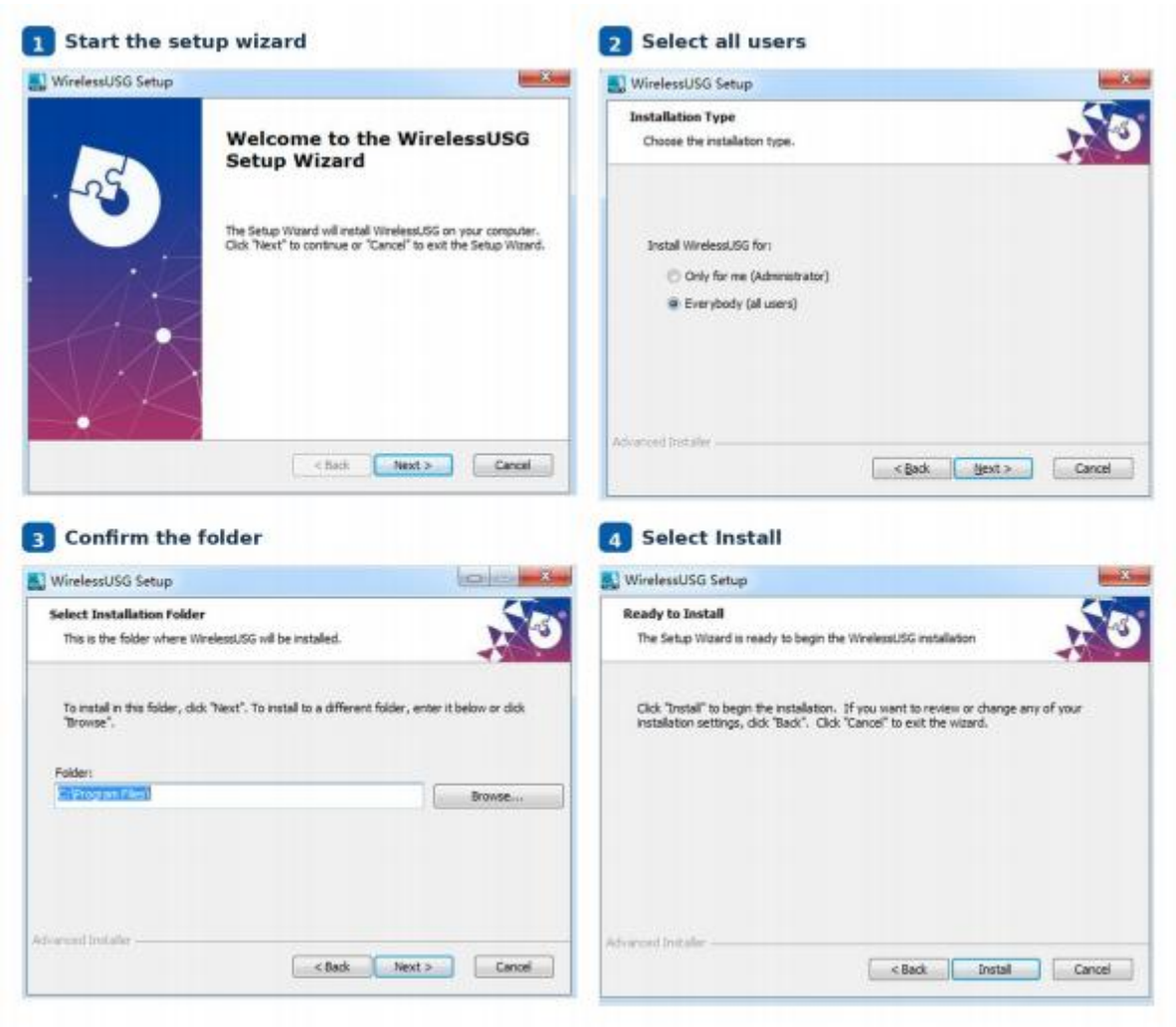
The scanner creates its own Wi-Fi connection. An internet connection is not required during scanning, and Windows may correctly display the scanner network as having no internet access.

SECTION 02

Install the Windows Application

Sign in with an administrator account, extract the installation package, and close other applications before starting.

1. **Extract the package.** Open the supplied ZIP file and extract all files to a local folder. Do not run the installer from inside the compressed folder.
2. **Run as administrator.** Right-click the WirelessUSG installer and select Run as administrator. The filename may display WirelessUSG 2.0.13.exe or a newer version.
3. **Follow the setup wizard.** Select Next, choose Everybody (all users), confirm the installation folder, and then select Install.
4. **Finish installation.** When installation is complete, close the setup wizard and launch WirelessUSG from the desktop or Start menu.



Installation screens shown in order. The appearance may vary slightly by Windows version.

If Windows SmartScreen appears, select More info and then Run anyway only when the installer was supplied directly by DRSONO or an authorized DRSONO representative.

SECTION 03

Connect the Scanner by Wi-Fi

The computer connects directly to the scanner's Wi-Fi network. Keep the computer connected to that network while using the app.

1. **Power on the scanner.** Wait for the scanner to finish starting and begin broadcasting its Wi-Fi network.
2. **Open Windows Wi-Fi settings.** Select the network icon on the Windows taskbar and view the available networks.
3. **Select the scanner network.** The network name usually includes a code derived from the scanner serial number. For example, a scanner marked WXPCAIA082 may broadcast a network such as SS-1CS GOCAIA082.
4. **Enter the password.** Use the complete scanner serial number printed on the housing, typed in lowercase. Example: wxpcaia082.
5. **Confirm the connection.** Windows may show No internet, secured. This is expected because the connection is used for scanner data rather than internet access.
6. **Open WirelessUSG.** Allow several seconds for the app to detect the scanner and begin displaying the live imaging screen.

Connection checks

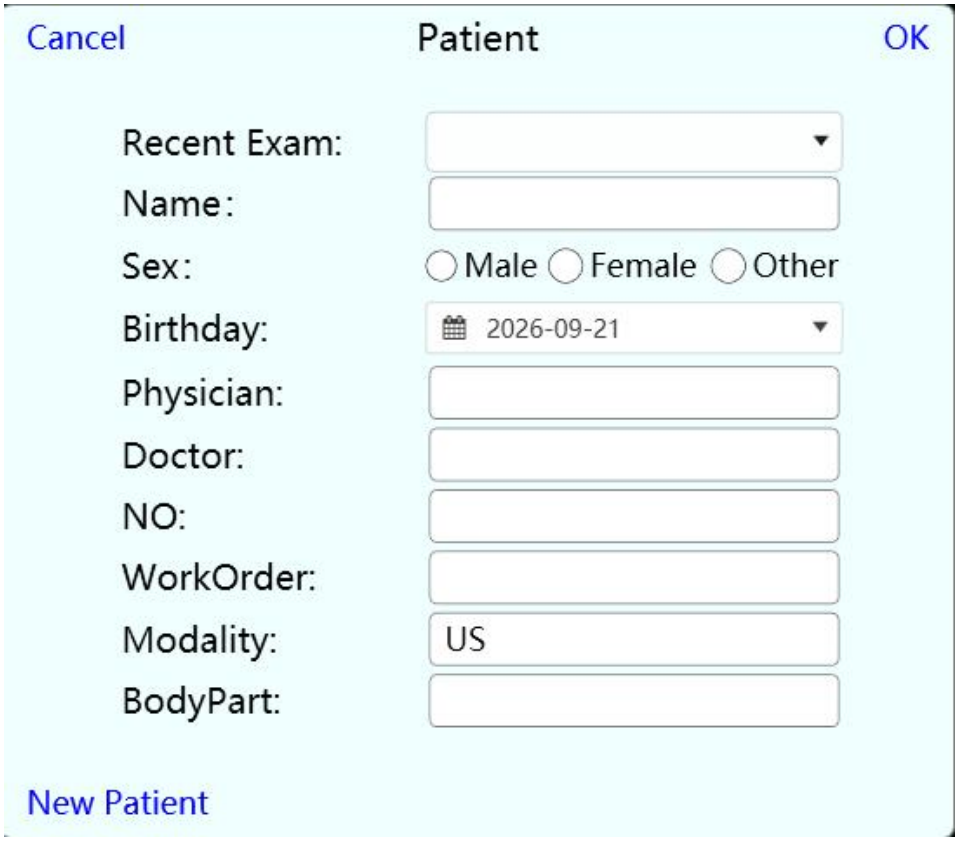
- Confirm that the computer is still connected to the scanner network, not a home or office Wi-Fi network.
- Retype the password in lowercase and verify every letter and number against the serial number.
- If the network does not appear, restart the scanner and refresh the Windows Wi-Fi list.
- If Windows automatically switches networks, temporarily disable automatic connection for competing networks while scanning.

SECTION 04

Start an Examination

Enter the patient or case information first so saved images and reports can be associated with the correct examination.

1. **Open patient information.** Select the patient information area or create a new case.
2. **Enter available details.** Complete the relevant fields, such as name, sex, date of birth, patient ID, referring clinician, examination number, language, and examination area.
3. **Confirm the record.** Review the information and select Confirm to begin the examination.



Patient information window. Field labels may appear in the installed language.

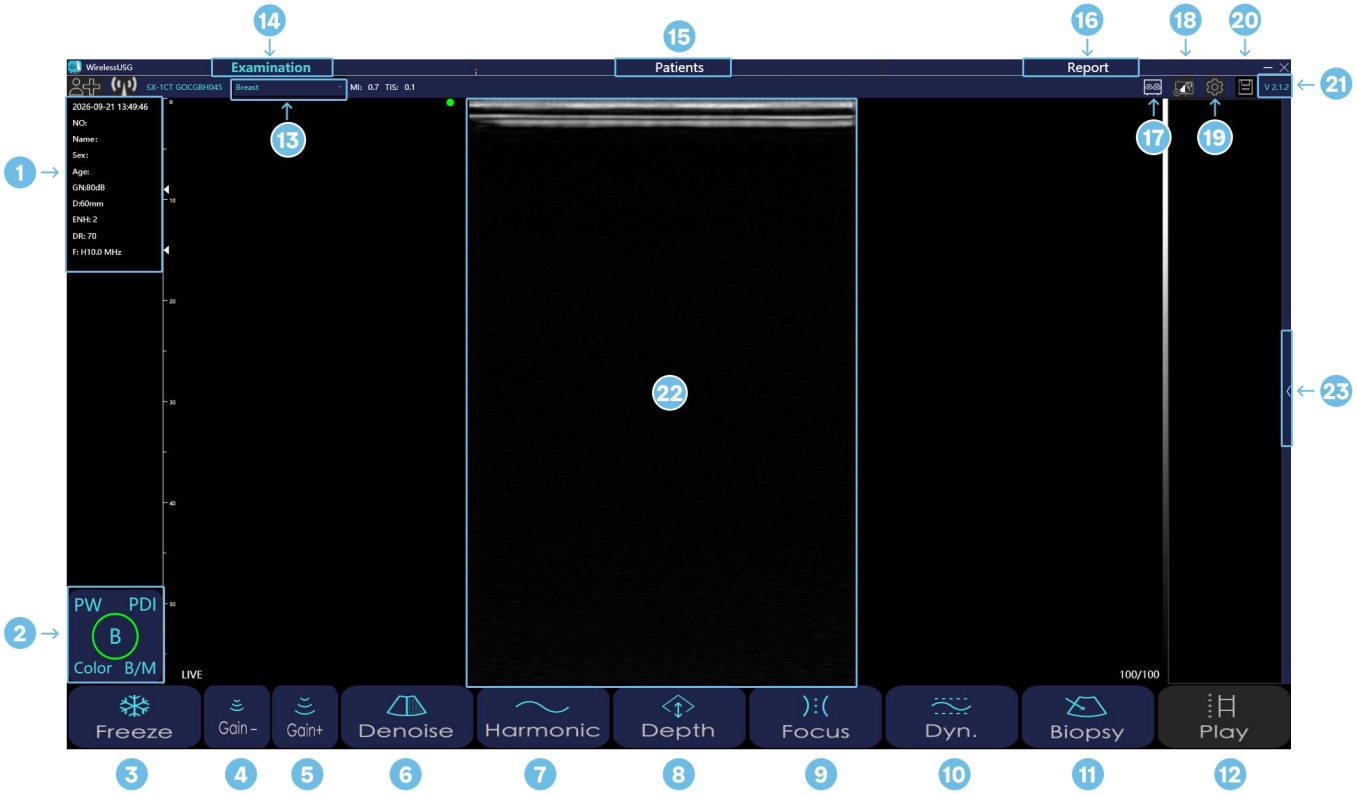
4. **Select a preset.** Choose the clinical preset or examination type that best matches the anatomy being scanned.
5. **Confirm live imaging.** Apply ultrasound gel and verify that the imaging area responds as the scanner is moved.

Patient privacy. Enter and store patient information only as permitted by your organization's privacy and data-handling policies.

SECTION 05

Main Interface Overview

The numbered image below corresponds to the control list on the following page. Button location is consistent across language versions, although the displayed text may differ.



Main imaging interface with numbered controls

Controls 1 to 12	Controls 13 to 23
1 Patient information and probe parameters	13 Preset or examination selection
2 Imaging modes: B, B/M, Color, PW, and PDI	14 Examination status
3 Freeze or resume live imaging	15 Case management
4 Increase gain	16 Report
5 Decrease gain	17 Dual B or BB mode
6 Noise reduction	18 Cloud upload, when enabled
7 Harmonic or frequency control	19 Settings
8 Imaging depth	20 Save case or examination
9 Focus position	21 Software version
10 Dynamic range or grayscale curve	22 Imaging area
11 Needle guide line	23 Time gain compensation controls
12 Cine playback	

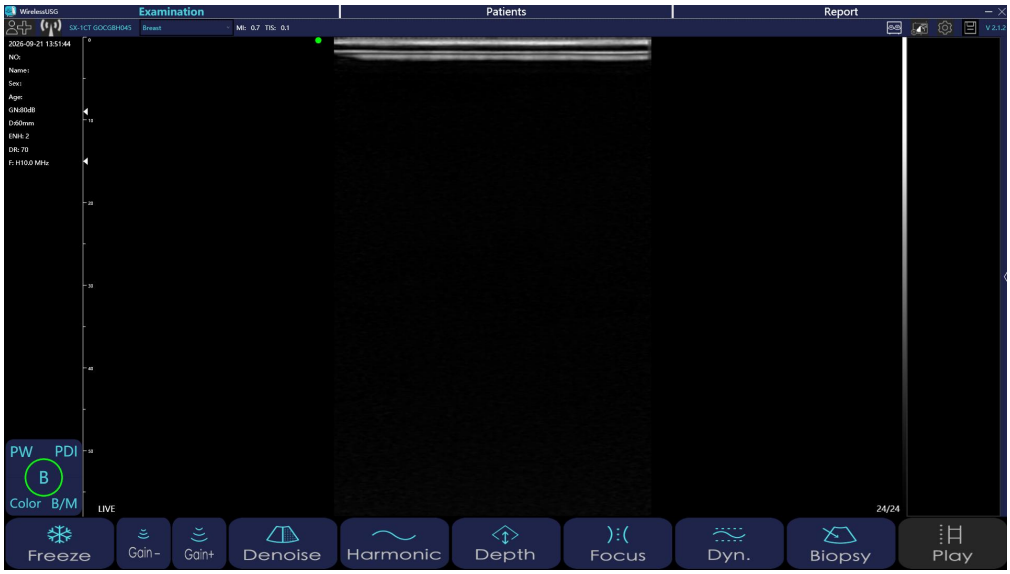
SECTION 06

Imaging Modes

Select the required imaging mode from the lower-left mode controls. The modes shown depend on the connected scanner model.

B mode

B mode displays a real-time two-dimensional grayscale image and is the starting point for most examinations. Optimize depth, gain, focus, frequency, dynamic range, and TGC before adding Doppler modes.



B mode interface

B M mode

B/M mode combines a two-dimensional reference image with a motion trace over time. Use the mouse to position the M-mode cursor across the structure of interest, then confirm the trace below or beside the reference image.



B/M mode with the cursor positioned in the B-mode image

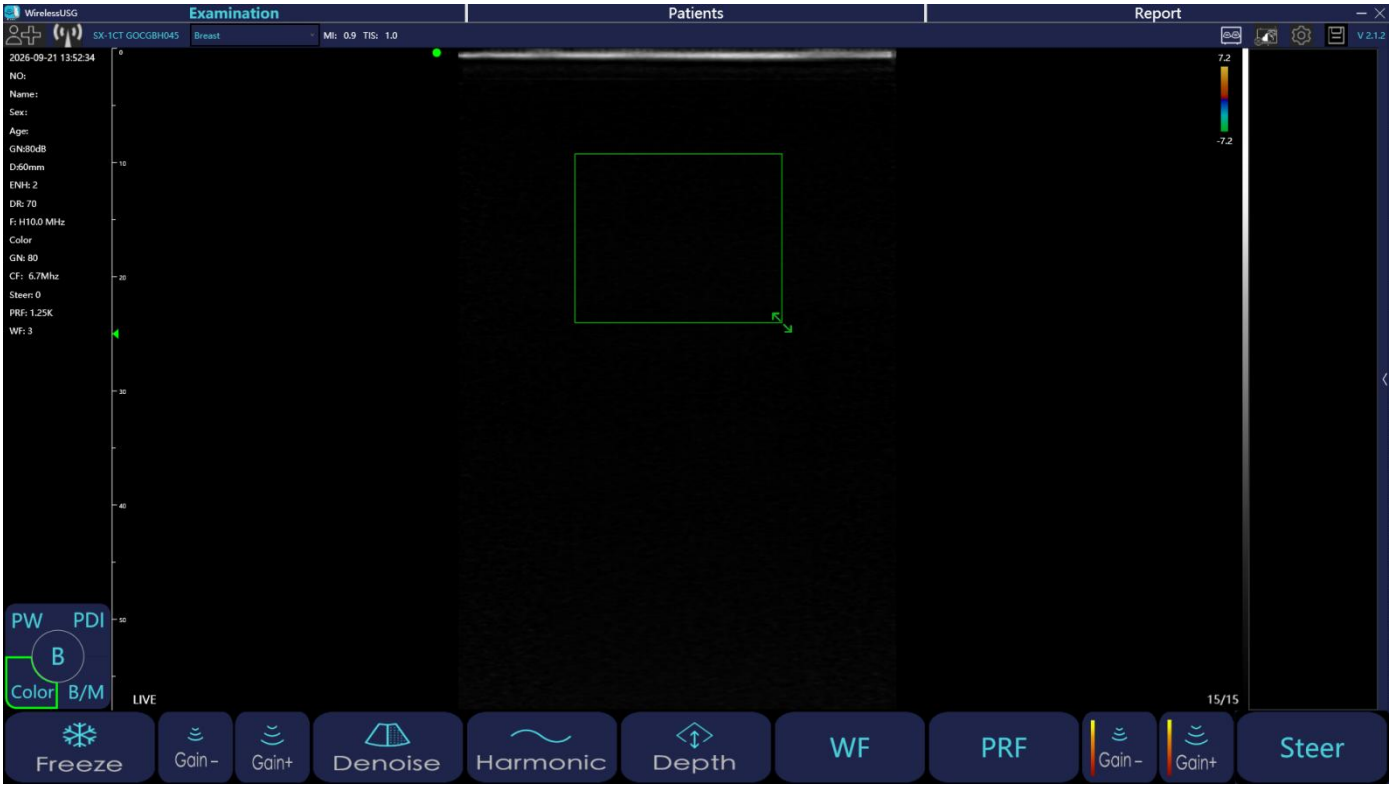
SECTION 06

Color and Power Doppler

Begin with an optimized B-mode image. Then activate Color or PDI and position the region of interest over the anatomy to be assessed.

Color Doppler

Color Doppler overlays flow information on the B-mode image. Use the mouse to move or resize the color region of interest.

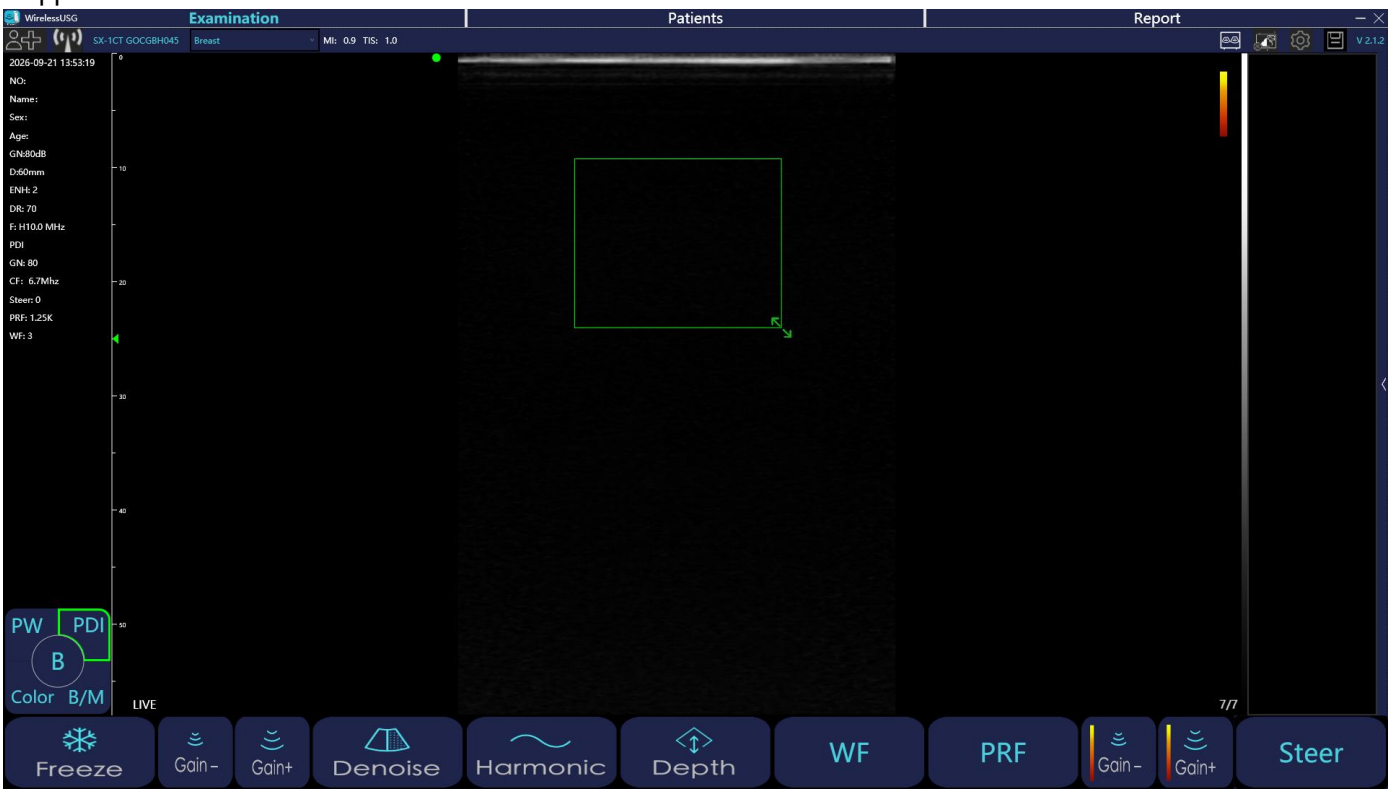


Color Doppler mode

- WF: Adjust the wall filter. A setting that is too low may allow tissue-motion color artifacts; a setting that is too high may remove slower flow signals.
- PRF: Adjust the pulse repetition frequency for the expected flow speed. Increase PRF for faster flow and decrease it for slower flow, while watching for aliasing and loss of sensitivity.
- Color gain: Increase until color noise appears, then reduce slightly for a cleaner display.
- Steering angle: Adjust the beam direction when the connected probe and mode support steering.

Power Doppler Imaging

PDI displays the strength of the Doppler signal and can be useful for detecting lower-flow signals. It does not provide the same directional information as conventional Color Doppler

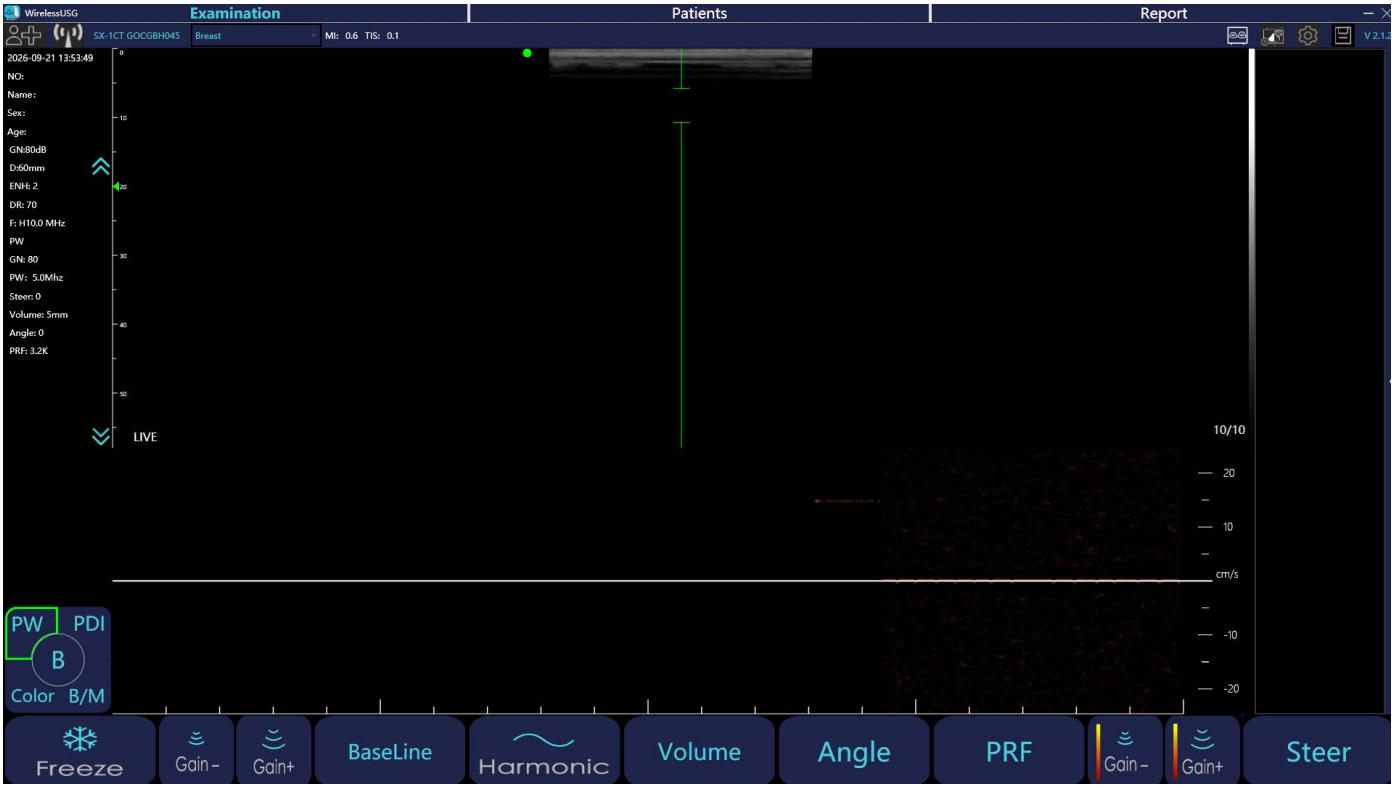


Power Doppler Imaging mode

SECTION 06

Pulsed Wave Doppler

PW mode displays a spectral waveform from a selected sample location. Availability depends on the connected scanner model.



PW Doppler mode with the spectral display

1. **Position the sampling line.** Use the mouse to place the Doppler cursor across the vessel or structure of interest.
2. **Set the sample volume.** Move the sample gate to the desired depth and adjust its size if the control is available.
3. **Adjust PRF or scale.** Choose a range appropriate for the expected flow velocity. A range that is too low may cause aliasing; a range that is too high may compress slower signals.
4. **Adjust gain.** Increase spectral gain until the waveform is visible, then reduce it if background noise fills the spectral window.
5. **Adjust steering or angle.** Use the angle controls only when supported and when required for the examination protocol.
6. **Freeze and review.** Freeze the waveform, use cine playback if needed, and save the selected image or measurement.

SECTION 07

Optimize the Image

Use a consistent sequence so that each adjustment answers a specific image-quality problem.

Control	How to use it
Depth	Set the display just deep enough to include the anatomy of interest. Excess depth makes the target smaller and may reduce useful detail.
Overall gain	Increase or decrease overall brightness. Avoid gain so high that fluid or normally dark structures fill with noise.
Focus	Position the focal zone at or just below the structure of interest for the best lateral detail.
Frequency or harmonic	Higher frequencies generally improve detail but reduce penetration. Lower frequencies improve penetration but reduce spatial resolution. Select the setting for the patient and target depth.
Dynamic range	Adjust the number of displayed gray shades. A higher dynamic range produces a softer image with more gray levels; a lower range produces greater contrast.
TGC	Use time gain compensation to balance brightness at different depths without over-brightening the entire image.
Noise reduction	Apply noise reduction conservatively so that true tissue boundaries and low-level echoes remain visible.
Needle guide line	Enable the guide only when performing a trained, authorized needle procedure and align the physical needle path with the displayed guide.

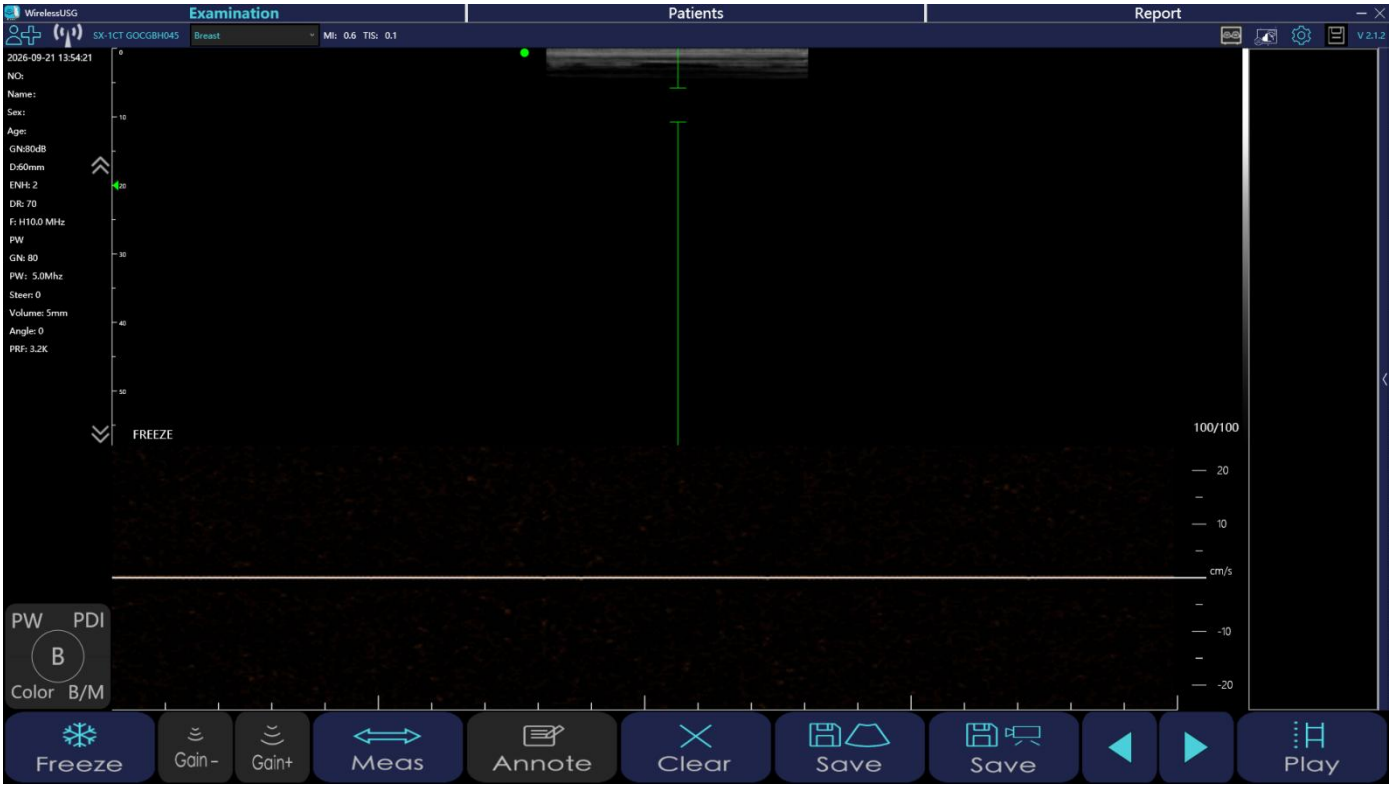
Recommended adjustment order

Preset and mode -> depth -> overall gain -> focus -> frequency or harmonic -> dynamic range and TGC -> Doppler-specific controls.

SECTION 08

Save Images and Complete the Examination

Freeze the required view first, review it carefully, and then save it to the active case.



Frozen-image controls and cine playback

1. **Freeze the image.** Select Freeze when the required anatomy is displayed.
2. **Review cine frames.** Use the backward and forward cine controls to choose the best frame if a sequence is available.
3. **Save to the case.** Select the save icon to add the image to the current examination.



Save icon

4. **Download the image.** Open the saved image and select its download icon. Saved files can be found in the WirelessUSG folder within the software installation location, unless a different path has been configured.



Download control in the saved-image panel

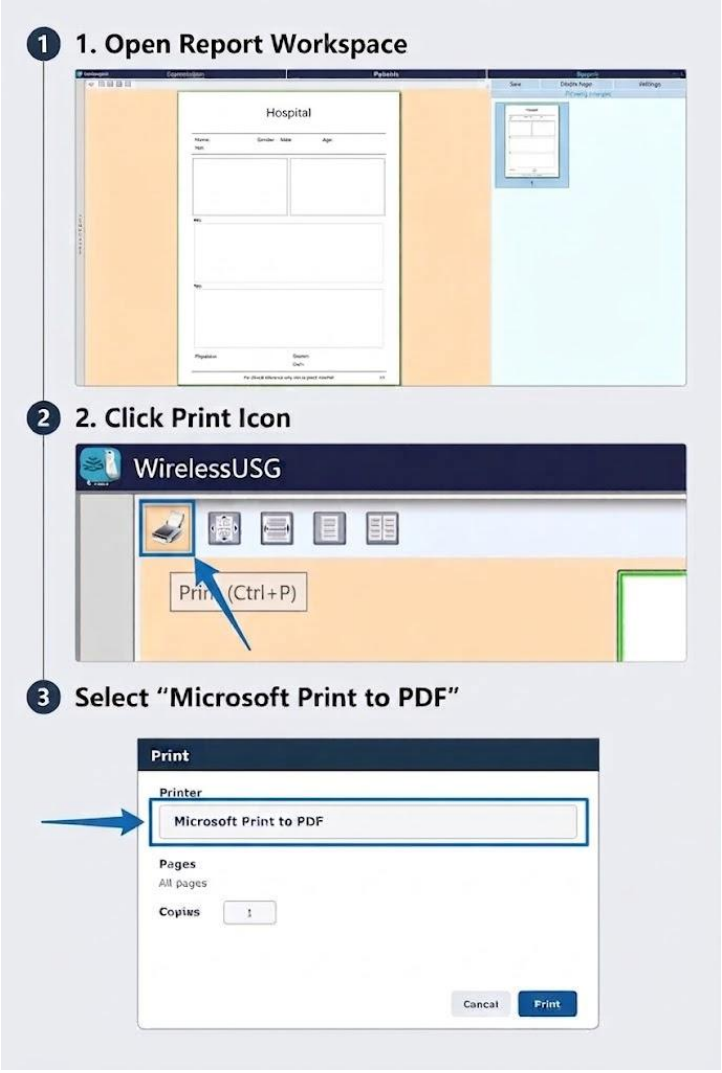
5. **Complete the examination.** Confirm that the required images and patient information are present, then save or close the case according to your workflow.

SECTION 09

Create and Save a Report

Open the report workspace from the main interface, enter the findings required by your organization, and use a PDF printer to save a copy.

1. **Open Report.** Select the Report button from the main imaging interface.
2. **Enter the report.** Review the patient and examination details, add the required findings, and confirm that the correct saved images are included.
3. **Select Print.** Select the print icon in the upper-left area of the report workspace.
4. **Choose a PDF printer.** Select Microsoft Print to PDF or another approved PDF printer, then choose the destination and filename.
5. **Verify the output.** Open the saved PDF and confirm that the patient information, report text, and images are complete before sharing or archiving it.



Report and PDF export sequence

SECTION 10

Troubleshooting and Support

Use the checks below before reinstalling the application. If the issue continues, send DRSONO Support enough information to reproduce it.

Issue	What to check
Scanner network is not listed	Confirm that the scanner is powered on and charged. Restart the scanner, refresh the Wi-Fi list, and move the scanner closer to the computer.
Password is rejected	Use the full serial number printed on the scanner housing and type every character in lowercase. Check similar-looking letters and numbers.
Connected but no live image appears	Confirm that Windows remains connected to the scanner network, close and reopen WirelessUSG, and restart both the scanner and computer if needed.
Color, PDI, or PW is unavailable	Mode availability depends on the connected DRSONO scanner model. Confirm that the model supports the requested mode.
The app freezes when a mode is selected	Close the app, reconnect the scanner, and restart Windows. Record the Windows edition, computer model, software version, selected mode, and a short video of the behavior before contacting support.
A saved image cannot be found	Check the WirelessUSG folder in the installation path and confirm that the image download icon was selected after saving the frame to the case.
The report does not save as PDF	Select a PDF printer such as Microsoft Print to PDF. If no PDF printer is available, enable it in Windows optional features or use an organization-approved PDF printer.

When contacting DRSONO Support

Include the order number, scanner model, scanner serial number, Windows version, computer model, WirelessUSG software version, the imaging mode being used, and a short video showing the issue. This usually allows the support team to identify compatibility or software problems more quickly.

Product information and support resources are available at drsono.com.