



SonoMate: Guided Ultrasound Acquisition and Review

A clinical workflow brief for device setup, real-time acquisition guidance, selected-frame organization, and physician review.

Who it's for

Emergency and acute-care leaders, ultrasound program directors, sonographers, clinicians, and imaging IT

Scope

Product and workflow information grounded in supplied Rainscales materials. Not clinical guidance or a regulatory statement.



Device List – Manage ultrasound devices and connection status

1.1 Device List A centralized list of ultrasound devices registered in the system. — Four summary cards: Total Ultrasound Devices, Console Ultrasound Devices, Handheld Ultrasound Devices, and Connection Checked. — Type (Console / Handheld), Device Name, Serial Number, Hospital, Room, and Edge. — Connection: Success / Not checked — only devices with a checked connection appear in the Device dropdown in Study Setup.

RAIN
SCALES

SonoMate > Device List

English

admin
System Admin

MAIN MENU

Permissions

Hospitals

Edges

Staff

Departments

Locations

Patients

AutoOrgans

SonoMate

AutoHygiene

LifeLine

Q Search by name or serial number

Filters

Add Device

Total Ultrasound Devices
3

Console Ultrasound Devices
1

Handheld Ultrasound Devices
2

Connection Checked
2

TYPE	DEVICE NAME	SERIAL NUMBER	HOSPITAL	ROOM	EDGE	CONNECTION
Console	Ultrasound QC	01	QC Hospital	Room 2	TL	Success
Handheld	Clarius	Clarius01	HCM Demo	VP HCM	HCM	Success
Handheld	Clarius QC	01	QC Hospital	Deleted location	Deleted edge	Not checked

Rows per page: 10

1 - 3 of 3

< 1 >

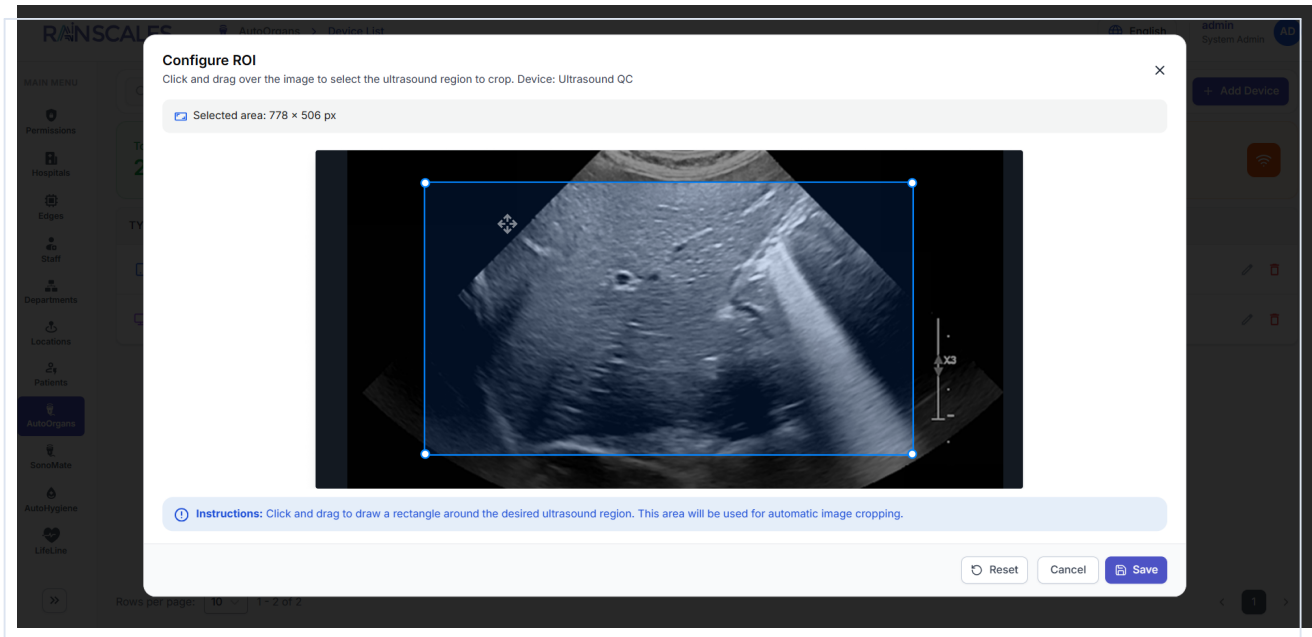
Device List – Manage ultrasound devices and connection status

RAIN SCALES | Patient Care

Workflow guide | 2

Configure ROI – Configure the input image region for AI

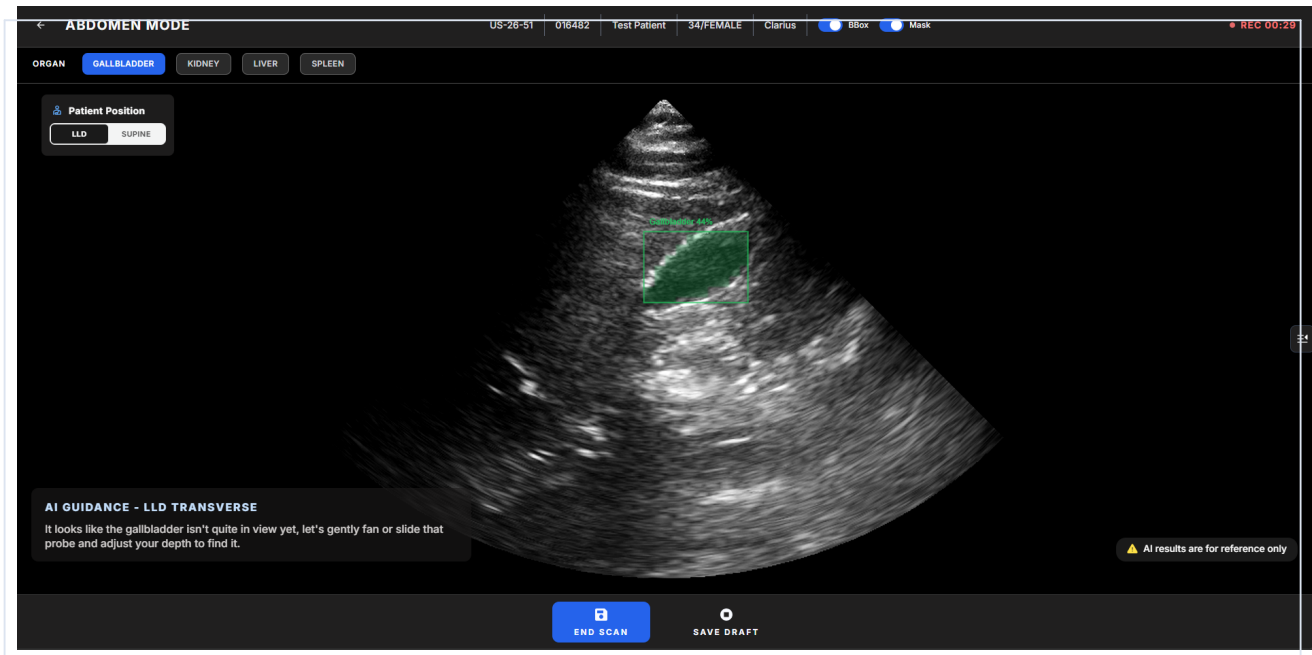
1.2 Configure ROI Configures the ultrasound image region (Region of Interest) that will be automatically cropped before being fed into the AI model. — Drag directly on the sample image to mark the ultrasound region to keep. — Shows the selected region's size in pixels for a quick check. — Reset to restore the original state, Cancel to discard, and Save to store the configuration for the device. — Helps strip out the ultrasound machine's extra UI, improving accuracy for the AI overlay.



Configure ROI – Configure the input image region for AI

Abdomen Mode – Real-time ultrasound livestream with AI overlay and guidance

2.1 Abdomen Mode 2.1 Abdomen Mode – Scan and AI Guidance The main scan screen shows the ultrasound livestream with real-time AI results. — Session information in the header. — Organ Switcher lets the user switch between organs. — Patient Position LLD / Supine for Gallbladder, with the system automatically switching to the corresponding pipeline. — AI Overlay with bounding box, segmentation mask, and confidence score; toggled on/off via the BBox and Mask switches. — AI Guidance panel provides probe-handling guidance for the current view; End Scan to close the session and Save Draft to save progress.

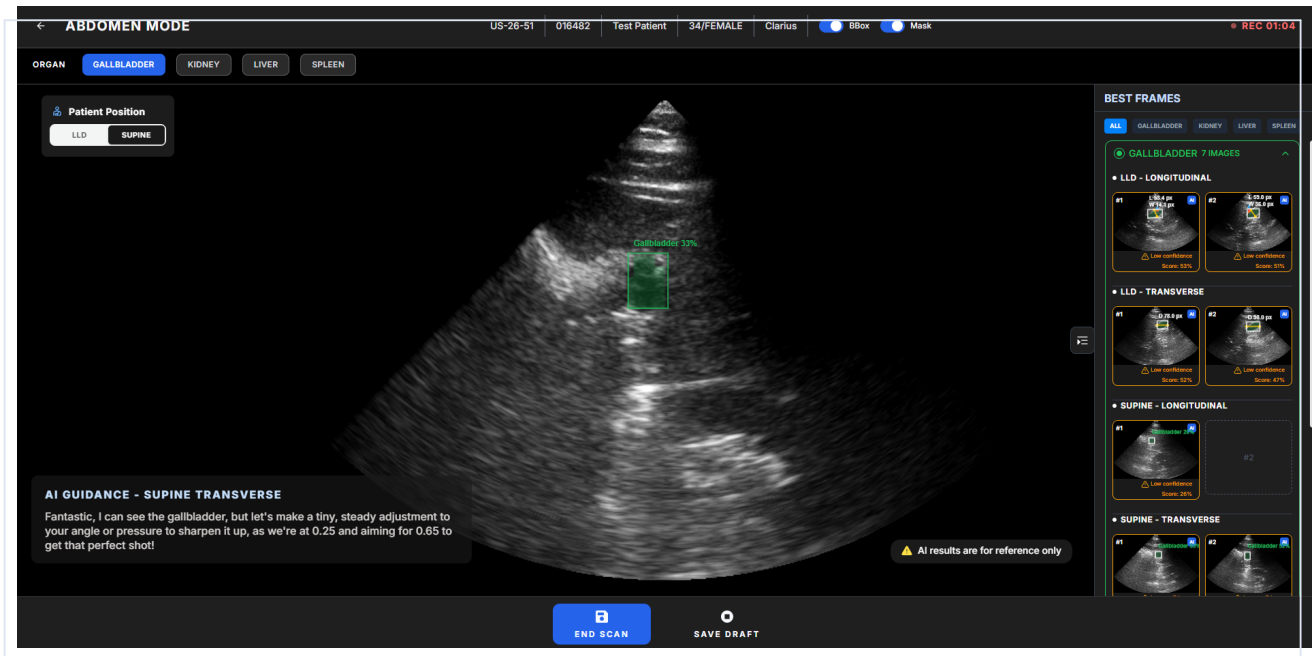


Abdomen Mode – Real-time ultrasound livestream with AI overlay and guidance

Best Frames – Automatically selects the best frame for each view

2.2 Best Frames The system automatically selects and saves the best-quality frames throughout the scan session.

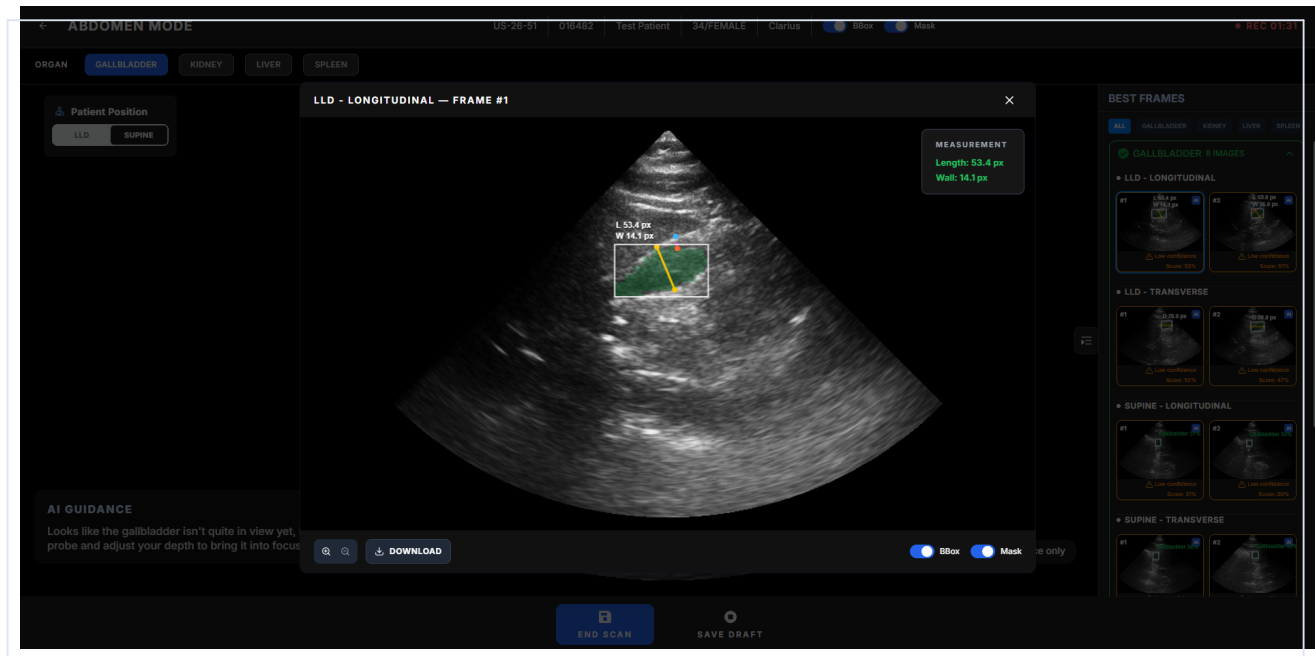
- View groups organized by protocol (ACR standards).
- Low-scoring frames are labeled Low confidence; the list updates in real time as higher-scoring frames replace the lowest-scoring one.



Best Frames – Automatically selects the best frame for each view

Frame Detail – View frame detail with measurement data

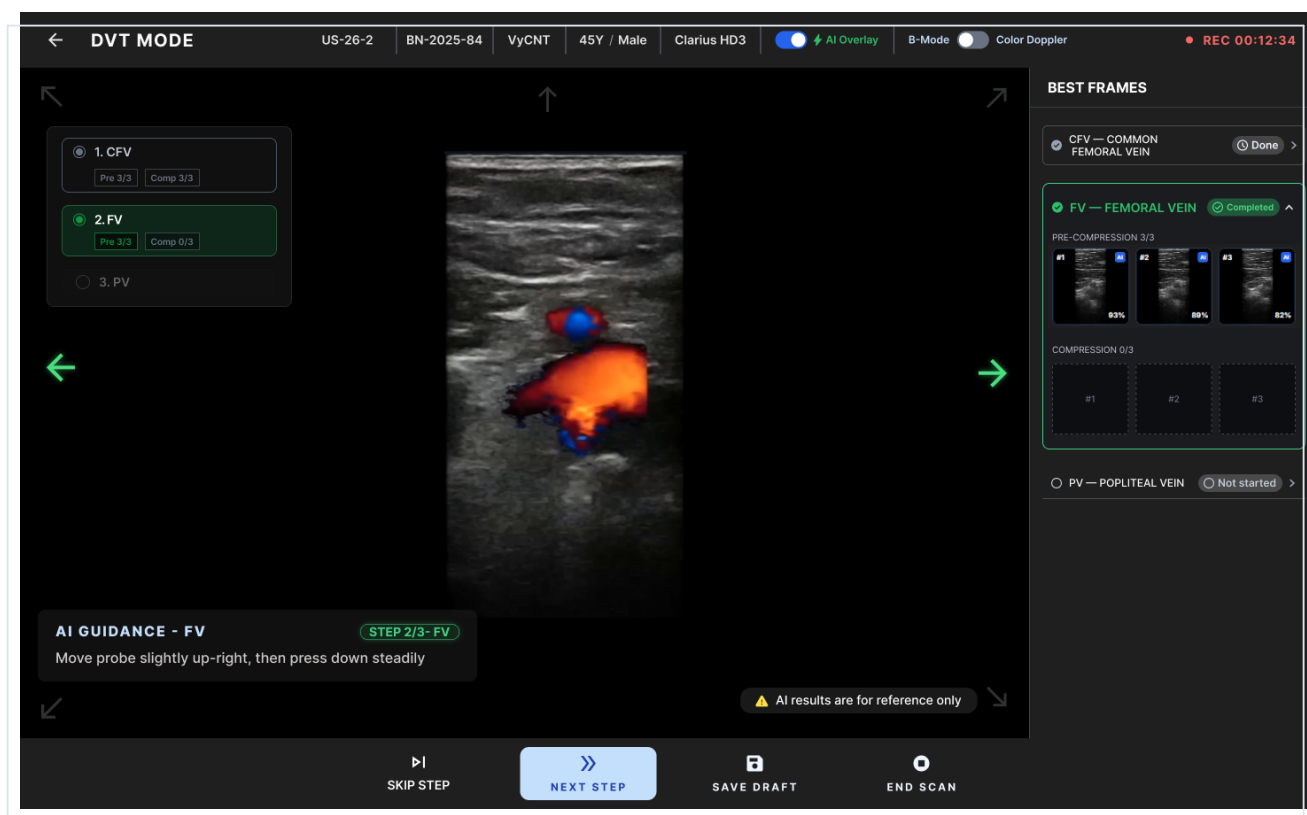
2.3 Frame Detail 2.3 Frame Detail and Measurement Opens a frame from Best Frames for a larger view along with its measurement data. – The Measurement panel shows the values measured by AI. – Zoom in / zoom out and Download the image for consultation or record-keeping.



Frame Detail – View frame detail with measurement data

DVT Mode – Scan by CFV, FV, PV checklist with step-by-step AI guidance

03 Live Scan – DVT DVT Mode guides the sonographer through the correct three-step deep vein thrombosis protocol, while automatically capturing images before and during compression. 3.1 DVT Mode A checklist-driven scan screen with AI guidance that follows the step currently in progress. – Three-step checklist in order: 1. CFV, 2. FV, 3. PV, each step with a Pre x/3 and Comp y/3 counter. – AI Overlay recognizes veins and arteries; switches between B-Mode and Color Doppler. – AI Guidance panel provides guidance for each step. – Best Frames on the right shows the Pre-compression and Compression groups for each step, with thumbnails, an AI badge, and a score. – Save Draft to save progress and End Scan to finish, moving to the Submit Study step.



DVT Mode – Scan by CFV, FV, PV checklist with step-by-step AI guidance

DVT Analysis – Compare the checklist against the captured images by step

4.1 DVT Analysis The DVT results tab, comparing the checklist against the images AI selected for each step. – DVT Checklist lists the three steps CFV, FV, PV with Status, Pre x/3, and Comp y/3, and shows a warning if the checklist is incomplete. – Select a step to view its detail: the selected step shows "Selected"; the other steps show "View". – Selected Step Details shows the step's full name, its status, and two image groups – Pre-Compression and Compression – each holding up to 3 images. – Physician Note lets the physician enter their assessment, independent from Sonographer Notes. – Complete Review to finish the reading session.

RAINSCALES

SonoMate > Studies > Interpretation Queue > Study Detail

English

HCM Demo

Physician Demo
Physician

PH

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SonoMate

STUDY DETAIL - US-26-21

SUBMITTED

Study Information

DVT Analysis

Session Video

SONOGRAPHER NOTES

Empty.

DVT CHECKLIST

Checklist is complete.

STEP	STATUS	PRE	COMP	
CFV	Completed	3 / 3	3 / 3	SELECTED
FV	Completed	3 / 3	3 / 3	VIEW
PV	Completed	3 / 3	3 / 3	VIEW

SELECTED STEP DETAILS

CFV — COMMON FEMORAL VEIN

Completed

Pre-Compression: 3 / 3

Compression: 3 / 3

01

02

03

01

02

03

COMPRESSION IMAGES

PHYSICIAN NOTE

Add optional physician note or reason

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Complete Review

DVT Analysis – Compare the checklist against the captured images by step

Session Video – Review the scan session video

4.2 Session Video A tab for reviewing the full raw video of the scan session, with the compression segments pre-marked.

RAINSCALES

SonoMate > Studies > Interpretation Queue > Study Detail

English

HCM Demo

Physician Demo
Physician

PH

MAIN MENU

SonoMate

STUDY DETAIL - US-26-21

SUBMITTED

Study Information

DVT Analysis

Session Video

VIDEO PLAYBACK

Play

CFV

FV

PV

0:00 / 2:26

COMPRESSION CLIPS

CFV

Segment 1 · 0:00-0:13 · 12s

Load

FV

Segment 1 · 0:25-0:37 · 12s

Load

PV

Segment 1 · 1:35-1:49 · 14s

Load

VIDEO SEGMENTS

#	SEGMENT NAME	START TIME	DURATION	NOTES	
1	Segment 1	0:00	2:26	Initial acquisition	LOADED

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Complete Review

Session Video – Review the scan session video



Review the workflow with Rainscales

Use this guide to structure a review with clinical, operational, privacy, security, and regulatory stakeholders.