

# Resona 7 Technology and Features

## *North American Platform (FDA Approved Features)*

### **MAIN UNIT**

ZONE Sonography Technology™ based imaging architecture  
Automatic Sound Speed Compensation (SSC):  
Hybrid hard disk (120 GB SSD, 1TB HDD)  
DVD-R, USB ports  
Control and swivel locks  
Transducer ports: 4 active, 1 parking

### **SYSTEM CONFIGURATIONS**

Premium radiology: all mainstays, smart Doppler, not cardiac  
Women's imaging – OBG, breast, OB smart features  
Shared services: all cardiac features

### **PINLESS TRANSDUCERS**

SC5-1: convex, single crystal  
SC8-2: convex, single crystal  
SP5-1: phased  
L9-3: linear  
L14-5w: wide aperture linear  
L20-5: high frequency linear  
V11-3: endocavity

### **HARDWARE MODULES**

Physio module (ECG PCG)  
4D module  
CW module  
PCG transducer  
Built-in wireless adapter

### **SOFTWARE – CARDIOVASCULAR**

Free Xros : anatomical M-mode  
Free Xros CM: curved anatomical M-mode  
TDI: tissue Doppler imaging  
TDI QA: TDI quantification analysis  
Stress Echo  
Tissue Tracking QA

### **DICOM STRUCTURED REPORTS**

Basic  
HL7 Worklist  
MPPS  
Query/Retrieve  
Vascular SR  
Cardiac SR  
Breast SR

### **ERGONOMIC FEATURES**

6-way adjustable control panel with electronic height adjustment  
Unique gesture-powered touch screen  
21.5" high resolution LED monitor  
12.1" tilting multi-touch screen  
Electronic floating control panel (left/right, up/down, back/forth)  
Dedicated endocavity transducer holder  
Gel warmer with temperature control  
Pinless transducers with light indicator  
Central and swivel lock  
Barcode scanner  
Voice command capabilities



## IMAGING FEATURES

HD Scope: enhanced localized contrast resolution by performing multiple processing functions on channel domain data

Echo Boost: adaptive signal processing technology with intelligent echo detection

HR Flow: better visualize tiny vessels and complex flow patterns

Smart Doppler: allows rapid and accurate adjustment of color and PW Doppler modes

Smart Track: continuously track color flow and optimize box position and angle in real-time

Smart V: automatic calculation of volume in 3D

iWorks: powerful protocol and customizable software

iBeam: spatial compounding

iTouch: one-touch automated TGC optimization

iZoom: full screen image display to offer enhanced visibility

iClear: adaptive speckle suppression imaging

iNeedle: enhanced needle visualization software

iScape: real-time panoramic imaging

iLive: virtual 3D-4D lighting algorithm

iPage: multi-slice imaging plus

SCV (slice contrast view): helps deliver higher contrast resolution and reduced noise

3D iClear: iClear for volume imaging

3D – 4D: supports color and power modes

Depth VR: Interactive lighting effect to generate more vivid rendering results and better 3D effect

## ADVANCED FEATURES

Smart FLC: automatic detection and volume calculation of ovarian follicles using a 3D volumetric data set

Smart OB: automatic measurement of major cranial biometric parameters – BPD, HC, OFD, FL, AC

Smart NT: automatic measurement of nuchal thickness

UltraView: off line analysis

Med Touch: control the system via an android operated smart device

MedSight: transfer images and cine to a smart device

Auto IMT: automated intimal-medial thickness measurement