



Viera™ Portable Breast Ultrasound

Image accuracy in hand.

Deliver accurate diagnostic images, at the point of care, enabling optimization of your clinical workflow and patient pathway.

Viera™
Portable Breast Ultrasound



Exceptional Imaging Accuracy

High resolution images transmit wirelessly to your smart device and integrates with PACS.



Streamlined workflow

Handheld, take along anywhere--office, exam room, or surgical suite.



Affordable

Add interventional breast ultrasound services for a fraction of the cost of comparable cart systems.

Technical Specifications

Viera™ Scanner Specifications	
Model	Viera™ breast ultrasound
Frequency	4 -14 MHz
Max Depth	7 cm
# of Elements	192
Radius	N/A
Pitch	208 µm
Transducer size	3.8 cm

Imaging	
Transmission	1 to 20 MHz waveforms Up to 20 continuous pulses Bi-polar output Up to 80V peak-to-peak
Beamforming & Reception	4 Parallel Beamformers Synthetic Aperture Beamforming for virtual focal zones 60 MHz sampling rate @ 14 bits per channel
Post processing	Adaptive Speckle Reduction Edge enhancement Persistence
Total Input Dynamic Range	160db
Automated Algorithms	Time-Gain-Compensation (TGC) Frequency-Depth Adjustment Patient Contact Detection

Internally Optimized Parameters		
Most ultrasound devices have parameters that the user must adjust to get a good image, the Viera™ system internally optimizes the following parameters to ensure the product is easy to use:	Frequency Range	4 to 14 MHz
	Focal zones Range	1 to 10
	Compression Dynamic Range	30 to 90 dB
	Reject Filter	Yes
	Sector width Range	50% to 100%
	Grey Map	Yes

Imaging Modes	
B-Mode	Yes
M-Mode	Yes
Power Doppler	Yes
Color Doppler	Yes
Needle Enhancement	Yes

Interface Controls	
Depth	Yes
Read Zoom	Yes
3TGC sliders or Automated TGC	Yes
Flip/Mirror	Yes
Freeze	Yes
Color/ Power ROI	Yes
Flow Speed	Yes

Pre-set Applications	
Viera™ breast ultrasound	Breast Dense Breast Interventional Breast Vascular Small Parts (Thyroid, etc.)

Mobile Platforms	
iOS	iOS 9.0 or later and the following devices: iPhone 4s (and later)* iPod Touch 5th gen (and later) iPad 3rd gen (and later), iPad mini, iPad Air
Android	Android 4.4.2 (API 19) or greater and devices which have the following architectures: x64 and ARM
NOTE: The iPhone 4s doesn't support 5GHz Wi-Fi. For best performance, a smart device that supports 5GHz Wi-Fi is recommended. iOS devices support iOS 11 for streamlined connectivity	

Security & Encryption	
WiFi data channel	TLS 1.2
Bluetooth	AES



Storage	
Local Export	Yes
Cloud Export	Yes
DICOM Store	Yes

Connectivity	
WiFi	802.11n, dual band 2.4GHz & 5GHz
Bluetooth	Bluetooth Low Energy 4.1

Measurements and Calculations	
TOOLS	
Distance	Yes
Trace	Yes
Ellipse	Yes
Heart Rate	Yes
Time	Yes

MEASUREMENT ACCURACY	
Breast Measurements	
Mass Volume	
Quad Multi-Distance Tool	
Depth-width ratio	
Lateral Distance	
Relative Error	< ± 2%
Minimum Range	≤ 0.2 mm
Maximum Range	≥ 24 cm
Axial Distance	
Relative Error	< ± 2%
Minimum Range	≤ 0.2 mm
Maximum Range	≥ 24 cm

DOPPLER SENSITIVITY	
Viera™ breast ultrasound	Depth Sensitivity: 5.1cm Flow Sensitivity: 0.8 mL/sec @ a depth of 5.0 cm

Mechanical	
Enclosure	Light weight magnesium
	Durable
Dimensions	IPX7 rated for probe and battery separately, rated for 1m immersion for 30 min
	167 (h) x 99 (w) x 42 (d) mm 6.7" x 4.1" x 1.6"
Mass (w/battery)	
	540g 1.2 lbs

Battery, Charging & Bootup	
Battery Life	
	~60 min scanning
Standby	
	~7 days idle
Charge Time	
	~90 min
Max Scan Time Per Exam	
	~20 min
Bootup	
	Platform dependent, generally <30 seconds

Cleaning	
Tested without adverse effects	
Accel® PREvention™ Wipes	
Accel® TB Wipes	
CaviWipes	
CIDEX® OPA	
MetriCide™ OPA Plus High Level Disinfectant Solution	
Sani-Cloth® HB Germicidal Disposable Wipe	
Sani-Cloth® Plus Germicidal Disposable Cloth	
Tristel Trio Wipes System	
Virox™AHP® 5 RTU Wipes	

Standard Configuration	
Scanner	
2 Rechargeable Batteries	
1 Charger with global AC Adapter	
Access to Clarius Cloud Platform	

Viera™ portable breast ultrasound system
Image accuracy in hand



Hologic is a global company using **The Science of Sure** to improve lives by innovating and bringing to market the best diagnostic, detection and surgical technology in the world. We integrate The Science of Sure into everything we do to help healthcare professionals discover, diagnose and treat their patients with progressive certainty to deliver ever-greater **peace of mind.**

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