



LOGIQ™ E10

EMPOWERING YOU TO
MAKE THE DIFFERENCE

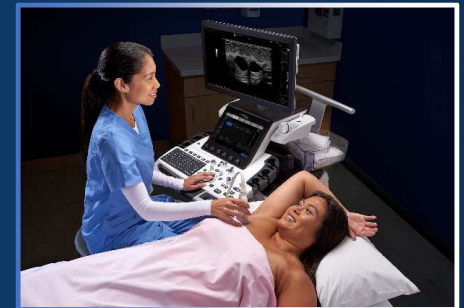


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LOGIQ™ E10

Empowering you to make the difference

- > **Confident diagnosis**
- > **Comprehensive tools**
- > **Concise workflow**
- > **Smart investment**



Make the difference for your patients



GI ultrasound Continued innovation



LOGIQ™ P9/P7



LOGIQ S7
with XDclear™



LOGIQ S8
XDclear 2.0



LOGIQ E9
XDclear 2.0



LOGIQ E10s



LOGIQ E10

Confident Diagnosis

Next Generation Technology



Next Gen Imaging System

10x processing power

**Same technology used
for driverless cars and
next gen gaming**

48x data throughput



cSound™ Architecture

Combines the power of XDclear™ probes with a new cSound Imageformer to enable confident diagnosis, comprehensive tools and concise workflow

XDclear probes

XDclear probes deliver the high fidelity acoustic input that is at the heart of any great ultrasound image.



cSound Imageformer

Significantly more data is collected and used to create every image, requiring extraordinary processing power and data throughput.



Enables focus at every pixel, as well as improved spatial and contrast resolution



cSound™ Imageformer... Benefits

Traditional Beamformer

Limited by data throughput and processing power

- Reduced spatial and contrast resolution
- Less image uniformity
- Requires multiple focal zones → Lower frame rates

cSound Imageformer

Enabled by incredible data throughput **48x** and **10x** processing power

- Better focusing for improved spatial and contrast resolution.
- Increased uniformity throughout image
- Fewer transmits, no Focal Zones → higher frame rates



B-Mode – Powered by the cSound™ Imageformer

Focused at
every pixel

*Uniformity throughout the image
No focal zone required*



Fast frame
rates

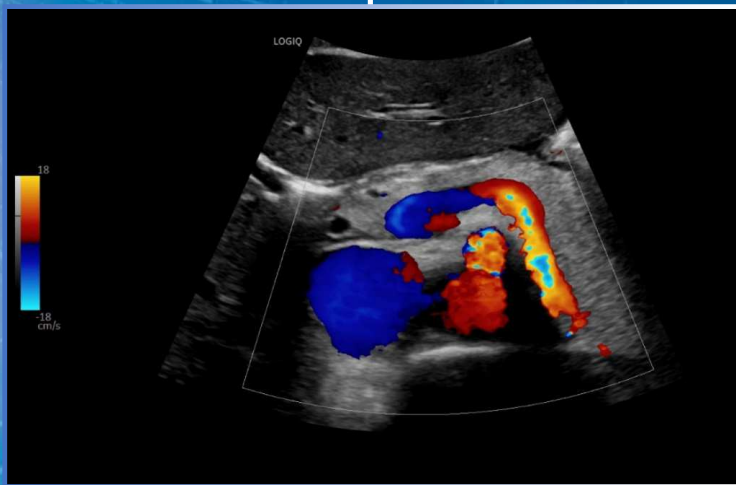
Scan quickly without blurring

Crystal
clear near
field

*Low haze
High contrast*



Color/PDI mode – Powered by the cSound™ Imageformer



**Fast
frame
rate**

Up to 3X frame rate

**High
spatial
resolution/
sensitivity**

*Coded-excitation improves spatial
resolution and sensitivity
Best of B-Flow™ Color into PDI*

**Easy to
use**

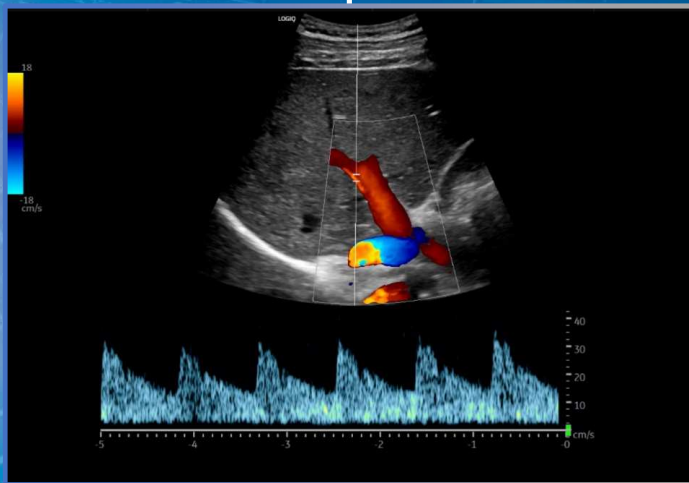
*Simplified user interface
Customizable flow shortcuts*



Doppler modes – Powered by the cSound™ Imageformer

Strong PW
signal

Improved sensitivity
Enhanced axial and lateral resolution



Great
simultaneous

Triplex
B-Flow™ + PW
CW Simul

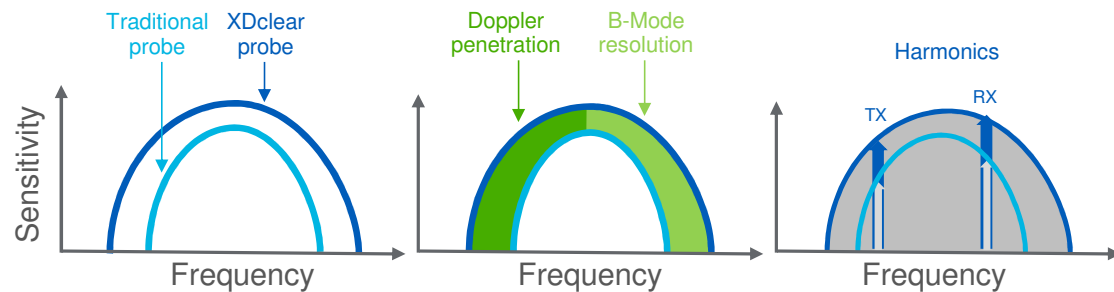
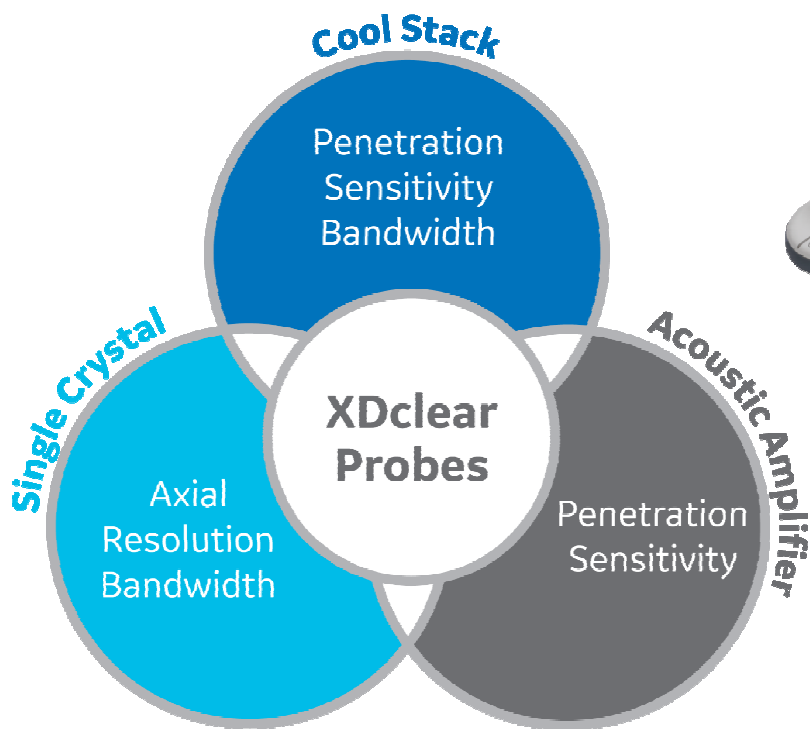
Clean
CW

No horizontal line noise



XDclear™

Extended to more probes



Comprehensive Tools

LOGIQ™ Apps

Photo Assistant

A picture is worth a 1000 words

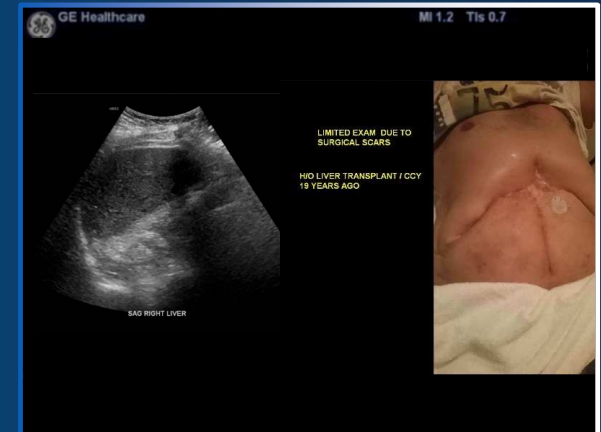
- Photograph relevant anatomy and include photos with the clinical images
- Provides value context for documentation and comparison after a procedure
- Utilizes Android™ tablet or phone
- Bar code reader



Photo Assistant App

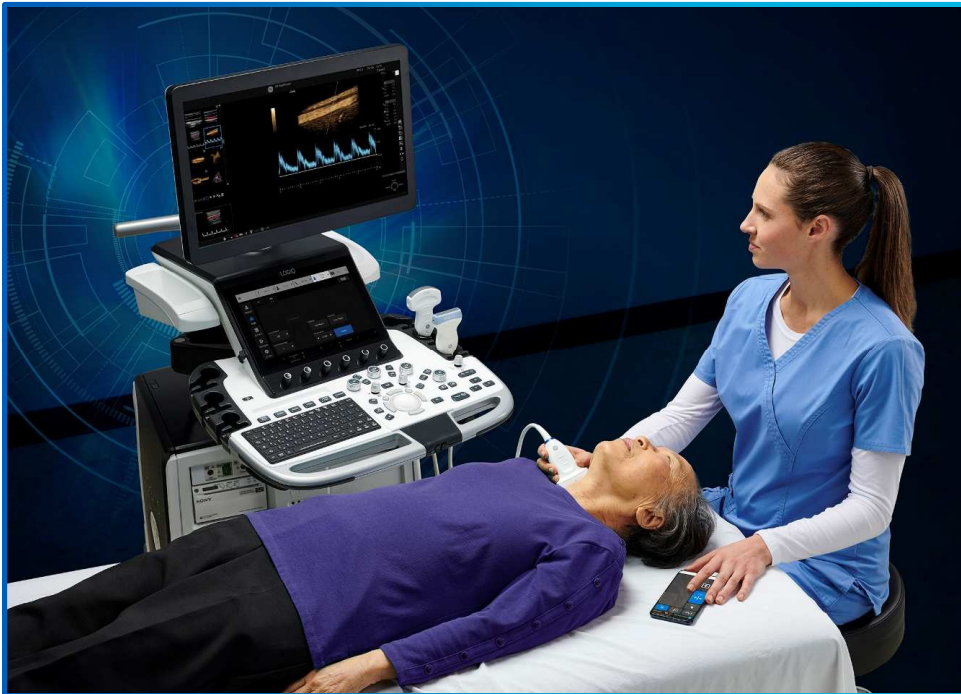


Take a photo with your smart device and have it become part of the ultrasound exam, including side-by-side with an actual ultrasound image



LOGIQ™ Apps

Remote Control



Remotely operate the system from tablet or phone that has LOGIQ Smart App loaded

- Focused on ergonomics
- Includes:
 - Major modes
 - Freeze/print
 - Depth
 - Gain
 - ROI placement
 - Dual Image

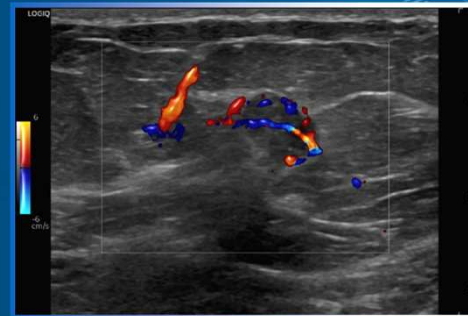


Radiant*flow*[™]

Supports detailed vascular imaging

- Optimized for small vessel imaging
- Provides a near-3D look
- Excellent when combined with Micro Vascular Imaging (MVI)

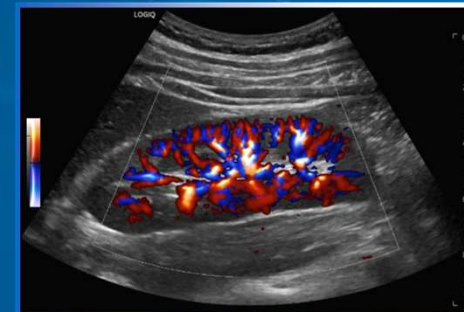
Available on most probes



PDI using Radiant*flow* of breast mass, ML6-15-D



Radiant*flow* of the portal vein, C1-6-D



Radiant*flow* color imaging of kidney, C1-6-D



B-Flow™

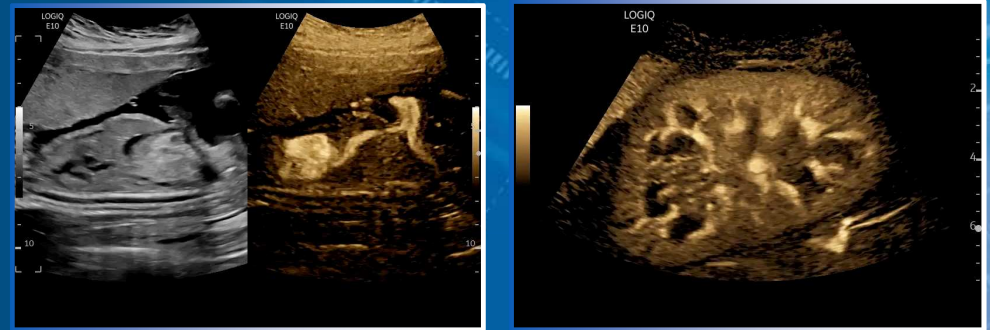
Direct hemodynamic visualization

A GE innovation

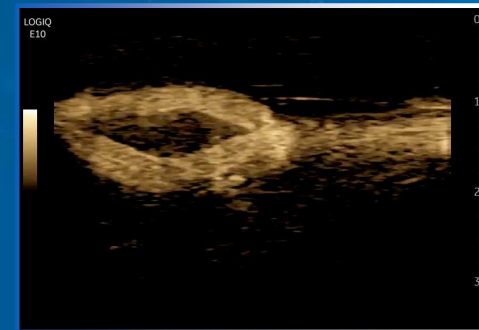
- Not using Doppler processing
- Based on GE Patented Coded Technology
- Display real hemodynamics
- Direct visualization of blood reflectors

True hemodynamics and anatomy

- Dynamic appearance of flow
- Minimal tissue overwrite compared to Color Flow
- Better control of flash artifacts compared to Color Flow



Dual Screen B-Mode and B-Flow, C2-9-D B-Flow Renal, C2-9-D



Carotid Bifurcation B-Flow, L2-9-D



B-Flow™

Benefits over Doppler

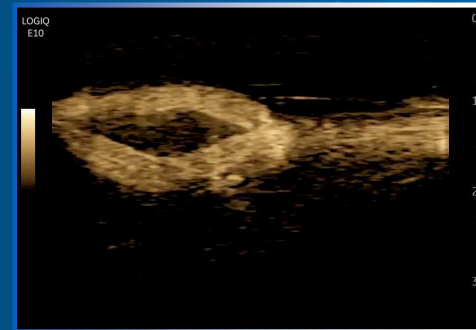
- No tissue overwrite
- No impact on frame rate
- Less angle dependency
- High resolution Imaging
- Background image clearly visible

Available on probes:

- C1-6-D/C1-6VN-D
- C2-9-D/C2-9VN-D
- C2-7-D/C2-7VN-D
- C3-10-D
- L2-9-D/L2-9VN-D
- L3-12-D
- L8-18i-D
- M5Sc-D
- ML6-15-D



B-Flow Renal, C2-9-D



Carotid Bifurcation B-Flow, L2-9-D



Hybrid B-Flow™

Highlights

- Side-by-side, simultaneous display of B-Mode and B-Flow images to facilitate assessment of carotid stenosis, fetal brain, and other studies
- B-Flow Capture with Reconstruction provides a three-dimensional view of blood vessels in which artifacts are automatically suppressed and weak vessel signals enhanced

Available on probes

- C1-6-D
- C2-9-D
- L2-9-D
- L3-12-D
- ML6-15-D
- L8-18i-D



Hybrid B-Flow in renal image, C2-9-D



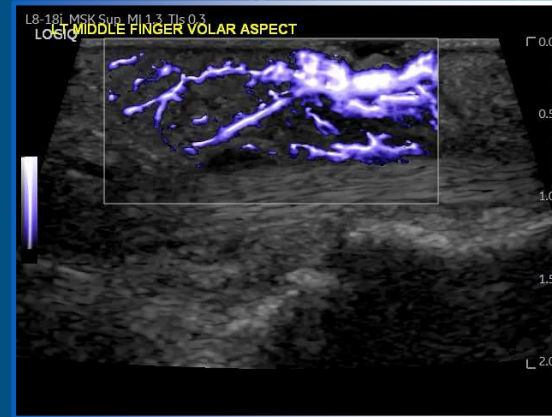
Micro Vascular Imaging

High definition flow

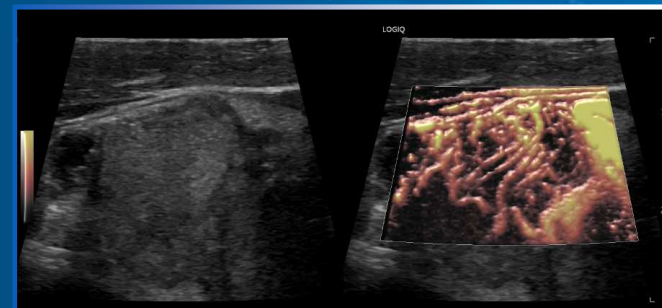
- Help assess blood flow with ease in the joints, lymph nodes, and other small structures
- Further enhanced when used with *Radiantflow*[™]

Available on :

- C1-6-D
- L2-9-D
- L3-12-D
- ML6-15-D
- L8-18i-D



Finger flow using MVI with *Radiantflow*, L8-18i-D



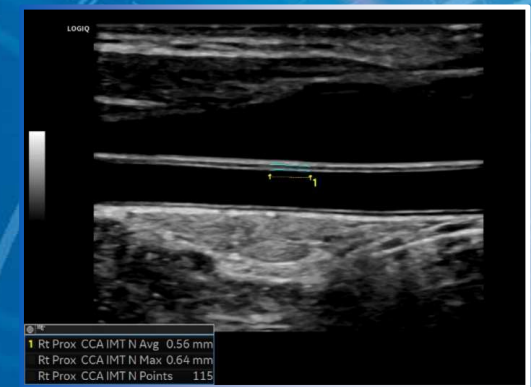
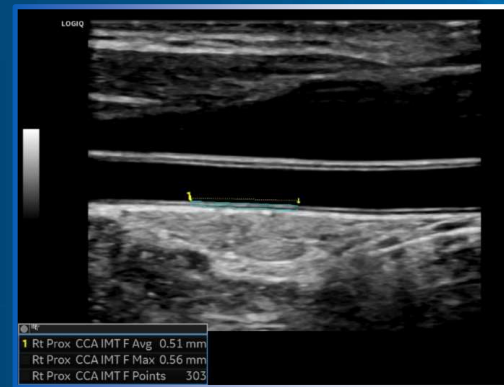
MVI with dual screen, ML6-15-D



Automatic IMT

Auto IMT is an automated method of measuring the intima media thickness of the CCA or ICA from multiple samples across a user defined length.

- Simple and easy to operate
- Direct export of measurements to a worksheet and report page
- Including ECG trigger to help increase consistency and reliability
- Save offset distance and IMT measurement lengths to help increase reproducibility



Carotid Intimal measurements using Automatic IMT tool for both near and far intima, L2-9-D



Concise Workflow

Harnessing the power of AI

AI-based Auto Doppler Assistant on the LOGIQ™ E10

Reduce time, key strokes and



>20%
Time savings

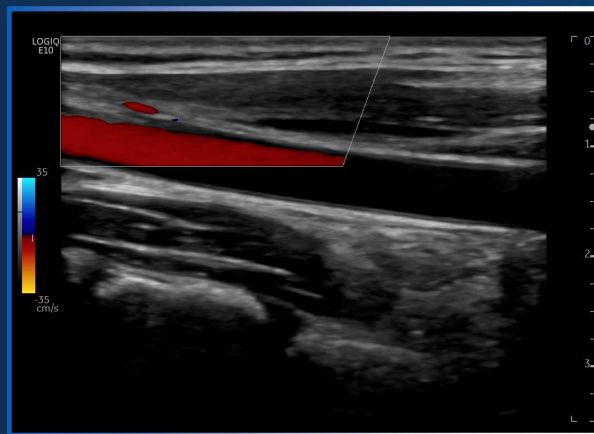
>50%
Key stroke
reduction



Harnessing the power of AI

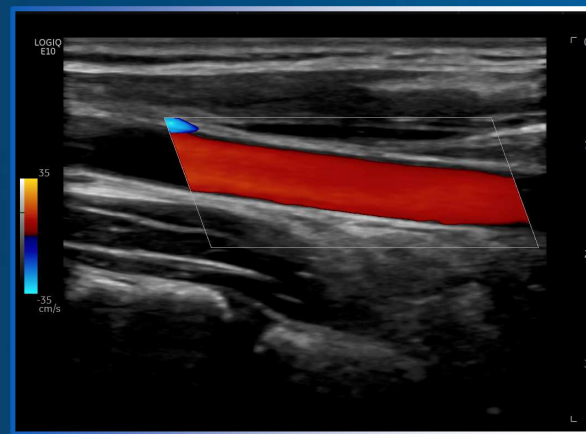
AI-based Auto Doppler Assistant on the LOGIQ™ E10

User guides system to the vasculature of interest and pushes a button



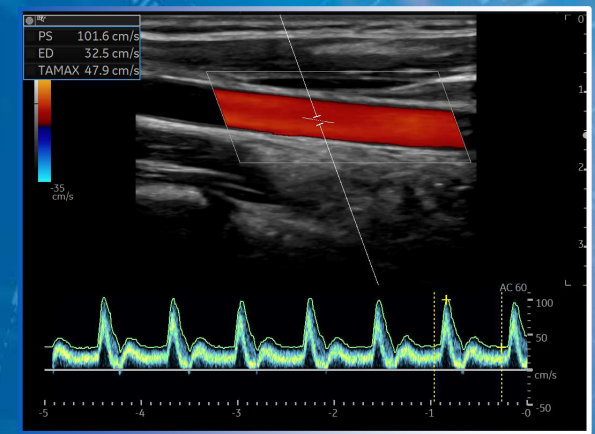
Benefit: Users scan as they normally would and control initiation of the algorithm

Doppler Assistant determines the location and direction of vessels



Benefit: Keystrokes are reduced as the color ROI and Doppler gate are automatically placed

Doppler Assistant determines the location and direction of vessels



Benefit: Results are appropriate for venous versus atrial exams even when both types of vessels are present

Manual view classification

Automated structure detection & classification



Scan Assistant

A system that thinks the way you do

Assists the user with customizable automations

- Initiates and completes required measurements
- Automatically steers color Doppler
- Automatically sets up imaging controls and modes
- Automatically inserts comments



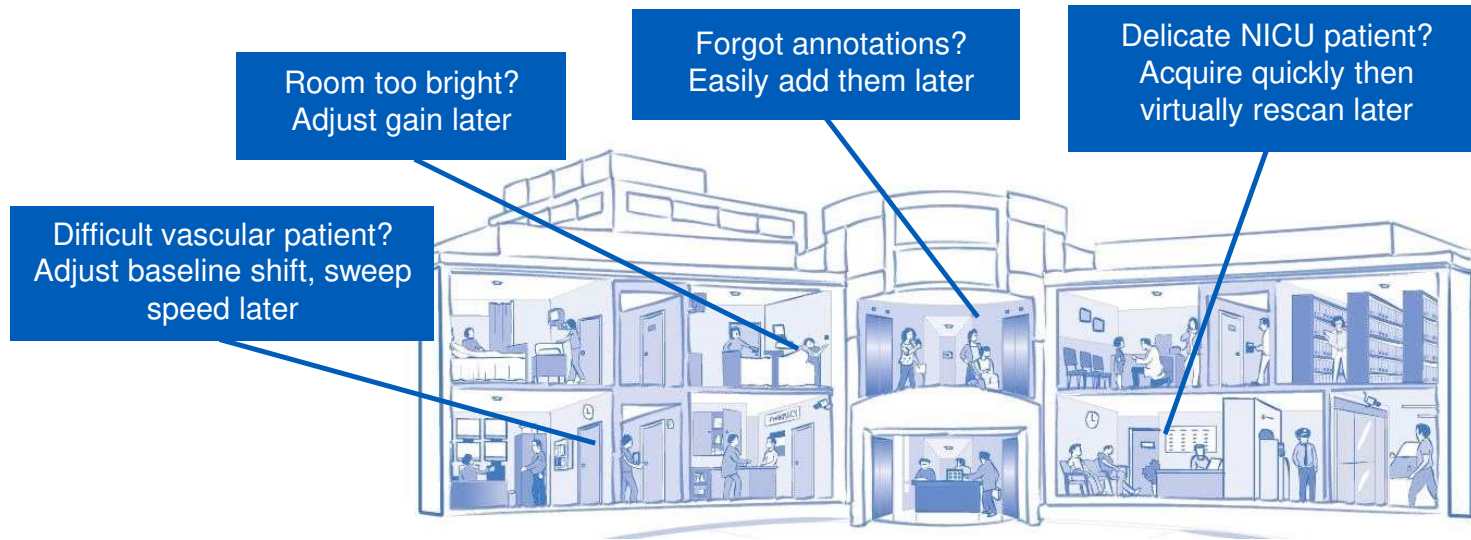
37% time savings using Scan Assistant



Raw Data

The foundation for easy workflow

Raw data capture enables you to build a thorough exam while reducing scan time. This **proprietary raw data format** from GE Healthcare captures data earlier in the image processing chain enabling users to make changes to the data during or even after the exam has ended.



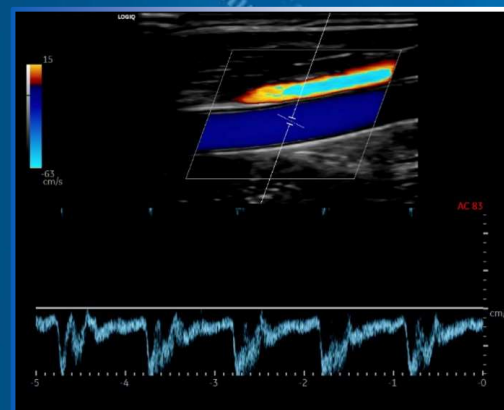
Raw Data Processing

Now with dual display

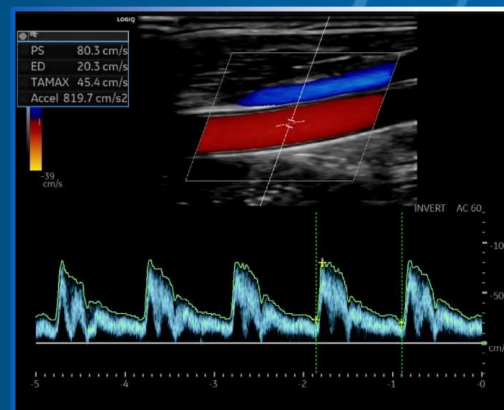
Original Acoustic Data are stored before scan converting in a GE “raw” format to be easily accessed and re-processed any time after the exam completion.

Highlights

- Sub-optimal studies can be optimized
- Measurements can be re-done and reports regenerated
- All Imaging control parameters can be changed as:
 - B-Mode: Gain, DR, AO, Zoom, SRI
 - CFM: Gain, Threshold, DualView, DR
 - PW: Baseline, Invert, Angle, DR, Gain



Carotid Doppler Raw Data image acquired with incorrect settings, L2-9-D



Same Raw Data image of Carotid Doppler with correct settings applied on recalled image, L2-9-D



LOGIQ™ E10 Design



Cleanability

- Rugged materials are robust in the face of harsh cleaning chemicals
- **21** approved agents for *both* console and probes
- Easy to lock controls while cleaning
- 63% reduction in crevices as compared to the LOGIQ E9

LOGIQ E10 R2 Design Presentation | May 18, 2021

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LOGIQ™ E10

Design

'Shopping cart' rear handle
Single bin storage

Standard wireless



'No cord' casters

Fold down display

Front or rear transport



Built-in gel warmer

Twin bin storage

4 active pinless + 2 parking ports

Easy 2-pedal brake

Portability

- Built-in battery to bypass power down and power up (20+ minutes)
- 20 pounds lighter than LOGIQ E9
- Floating keyboard and adjustable display improve ergonomics in every room
- Robust XDclear™ display even in bright lighting

Go portable with your best to handle your toughest



