

LOGIQ* S7

B-Flow Imaging

Sensational performance, Smart design, Specialized capabilities

B-Flow is a blood flow visualization technique that displays the blood flow echoes in gray scale imaging, with different gray intensities according to the reflectors speed and dynamics.

Based on the GE-patented Digitally Encoded Ultrasound technique to digitally suppress unwanted signals (e.g. noise and tissue) and boost weak signals (e.g. blood echoes), B-Flow helps overcome the limitations of Doppler with the following imaging benefits:

- Direct hemodynamics visualization
- No vessel wall overlap (no overlay technique)
- Less dependency on the user or scanning angle
- Higher frame rate and spatial resolution than Color Flow

B-Flow Color

While B-Flow passes through the Color Processing channel (with exception of the Color Doppler Process), B-Flow Color can be displayed within a selected ROI with the following additional potential benefits:

- Easier display of smaller vessels
- Simultaneous B-Mode and B-Flow Color visualization
- Separate settings from B-Mode
- Less tissue motion artifacts

B-Flow and B-Flow Color features

- Dual or single Display
- ON/OFF tissue background information and B-Flow
- B-Flow or B-Flow Color selection
- Accumulation Mode, adding multiple frames
- Working with PW for flow quantification
- Easy 3D B-Flow imaging

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Probes

- ML6-15, high frequency linear matrix probe
- L8-18i-D, high frequency linear hockey stick probe
- 11L-D, mid frequency linear probe
- 9L-D, low frequency linear probe
- C1-5-D, low frequency convex probe
- RAB4-8-D, low frequency volumetric probe
- 8C, high frequency microconvex probe



LOGIQ S7¹ – Amazing versatility



Vascularization of the spleen demonstrated with B-Flow using C1-5-D.



Secular aneurysm with good visualization of connecting neck using 9L-D.



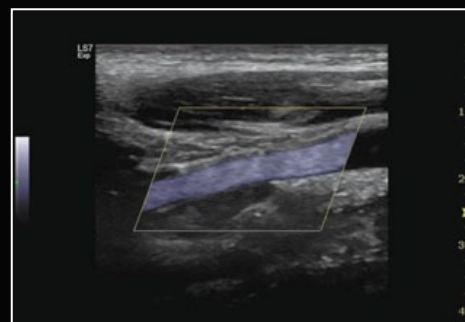
Liver vascularization with B-Flow using C1-5-D.



Visualization of the splenic vessels with B-Flow and C1-5-D.



Hepatic vein hemodynamics with B-Flow Color using 9L-D.



Internal Carotid Artery hemodynamics with B-Flow Color using 11L-D.

B-Flow may help visualize

- Vessel-wall irregularities
- Stenosis with measurement
- Carotid plaque vulnerability study (e.g. ulceration)
- Interaction of blood flow with anatomical structures inside the vessel such as venous valve cusps and thrombi
- Grafts for monitoring (e.g. dialysis graft pseudoaneurysms)
- Thyroid nodule activity assessment and monitoring
- Kidney perfusion (e.g. after transplants)
- Vascular disease after transfemoral catheterization (e.g. Aneurysm spurium, AV Fistula, Dissections, Hematomas, etc.)
- Liver and spleen vasculature
- Bladder reflux or jets
- Neonatal head vessels

¹The LOGIQ S7 described in this material has not been cleared by the U.S. FDA and is not available for promotion or sale in the United States.

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imagination at work