

LOGIQ S8

B-Flow imaging

Superb imaging, Simplified workflow and Scalable to your needs

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 overcomes the limitations of Doppler with the following imaging advantages:

- 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 benefits:

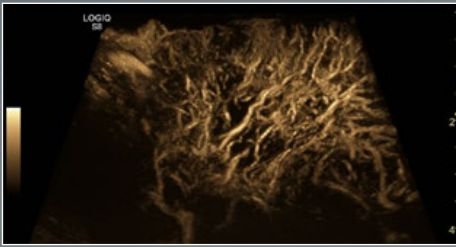
- Easy display of small vessels
- Simultaneous B-Mode and B-Flow Color visualization
- Separate settings from B-Mode
- Less tissue motion artifacts

B-Flow and B-Flow Color features

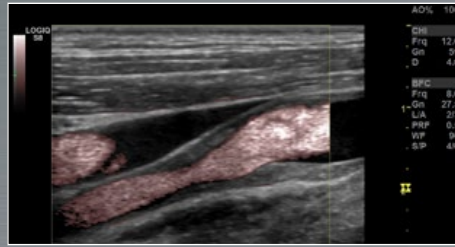
- Dual or single Display
- ON/OFF tissue background information and B-Flow
- B-Flow or B-Flow Color selection
- Accumulation Mode, adding multiple frames
- Working with PW for flow quantification
- Easy 3D B-Flow imaging



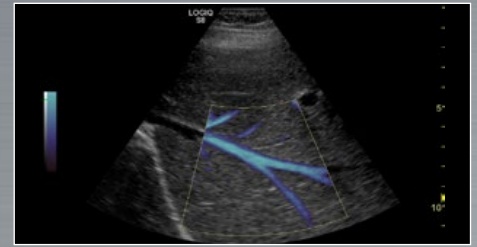
LOGIQ* S8 – Simply amazing



B-Flow used in Parotid gland with 9L-D transducer to demonstrate vascularity



Carotid artery shown with B-Flow Color using 11L-D transducer



B-Flow Color demonstrating Hepatic vasculature using S1-5-D transducer



Splenic vasculature with B-Flow and accumulation



Splenic vasculature with B-Flow Color



B-Flow of Hepatic and Portal vessels using C1-5-D transducer

Probes

- ML6-15-D, high frequency linear matrix probe
- L8-18i-D, high frequency linear hockey-stick probe
- 11L-D, high frequency linear probe
- 9L-D, low frequency linear probe
- 10C-D, high frequency micro convex probe
- C1-5-D, abdominal probe
- S1-5-D, low frequency abdominal sector probe
- M5S-D, cardiac sector matrix probe

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B-Flow may help visualize

- Vessel-wall irregularities
- Stenosis with measurement
- Carotid plaque for 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 for 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
- Cardiac Septal Defects (e.g. PFO, VSD, ASD, etc.)
- Endocardial walls in difficult to image patients

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