PhotoSound®

Imaging and Data Acquisition Solutions

MoleculUS™

Ultrasonic Imaging with Molecular Analysis

PhotoSound Technologies, Inc. and Telemed, UAB are proud to announce their first jointly developed product. MoleculUS™ combines photoacoustics, PhotoSound's core competence, with the ultrasound core competence of Telemed. Primarily an Ultrasound device, MoleculUS™ features B(2D), M, Color Doppler and Pulsed Wave Doppler Imaging modes as preset features. Additionally, the MoleculUS™ system features 256 photoacoustic channels of data acquisition where 128 channels can be switched between the ultrasonic beamformer and photoacoustic acquisition. The system collects photoacoustic signals while being optically triggered by the laser source and performs ultrasound imaging in between laser pulses. Raw Frequency (RF) data can be accessed in both modalities. The system comes with a software development kit (SDK) that allows customization of the device software and graphical user interface.

There is a linear, as well as, a micro-convex probe available as add-ons but the system is configurable for custom probes.

MoleculUS enables real-time measurement of optical tissue contrast on top of the ultrasonic structure of the tissue. The imaging system is designed for clinical research that can benefit from co-registered ultrasound and molecular photoacoustic imaging. With a compact housing and USB PC connection for easy instrument integration, MoleculUS was built with the customer in mind.

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