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The ES500RP

Ultrasound Research Platform
Evolutionary Interface

Dedicated to ultrasound

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- Advanced research platform enabled by an extremely flexible software architecture
- Designed for researchers to advance the clinical utility of ultrasound

Dedicated boards | Dedicated ASICs | Programmable platform

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- Flexible control of the complete ultrasound signal path in an open architecture

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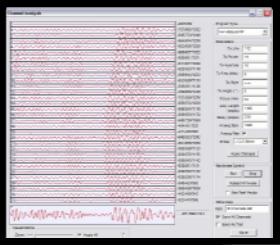
Pre/Post Beamformer R/F access

- Pre-beamforming single data access A/D
- Phase aberration estimation



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Pre/Post Beamformer R/F access

- Realtime RF acquisition
- RF cineloops acquisition
- Realtime RF processing

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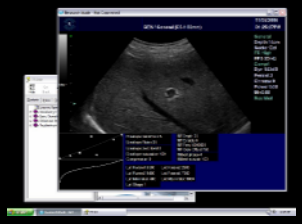
Pre - Processing

- Full control
- Realtime data access and processing capabilities
- Custom filtering, envelope
- Detection, compression



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Post-Processing

- Multiple choices of post-processing algorithm
- Realtime implementation of new algorithms
- Advanced post-processing technologies

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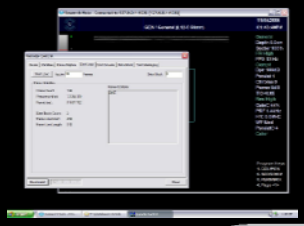
Client Applications

- Visual C++ environment
- Realtime data access, Frame synchronization
- Separate application, full control



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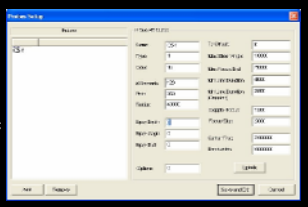
Transducer Prototyping

- Specialized setup utility software
- Probe parameter setup, which include # elements, pitch, radius, frequency, etc
- Smooth integration into imaging software



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Summary of RP features

Control and access

- Envelope, I/Q and RF data
- Pre and post beamformer RF data
- Pre and post scan conversion data
- Large CINE memory (RF, I/Q, BW, …)
- Imaging parameter's
- System operation
- Realtime data access, post-processing, display capabilities, synchronization
- Open development platform (VisualStudio, Windows XP)
- Connectivity/synchronization to external peripherals
- Fast integration in OEM-based products or Ultrasonix standard product line.

Tissue Characterization

Elastography

IMT

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