

# Single-FPGA, Scalable, Low-Power, and High-Quality 3D Ultrasound Beamformer

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- ▲ 3D ultrasound (US) reduces the dependency on the physical presence of a trained sonographer
- ▲ Today's systems are **stationary**, **consume considerable power**, and **expensive** ----> in hospitals
- ▲ Final objective: 

Not in rescue helicopters, or rural areas.

A portable, battery-operated, and cheap 3D US system that exploits the advantages of the 3D imaging

▲ In this work:

We propose **single-FPGA**, **scalable**, **low-power**, and **high-quality** 3D US beamformer, which is the most challenging step in US processing pipeline

