



High Frequency Ultrasound for Medical Diagnoses

Professor DAI Jiyan, Professor, Department of Applied Physics

Special Features

- ▶ Single-crystal based high-frequency phase-array ultrasound transducer for medical imaging and diagnoses
- ▶ Provide more solutions for clinical diagnoses of eyes and also in micro-surgery monitoring

With increased frequency, bandwidth and sensitivity, the resolution of ultrasound imaging can be increased significantly making it possible for eye imaging and small animal imaging.

Our invention developed a fabrication proven technology process involving ultrasound wire bonding, photolithography, laser cutting etc, to fabricate piezoelectric single crystal based 20 MHz phase-array transducer. The current invention has very large impact to industry and markets, it will provide more solutions for clinical diagnoses of eyes and also in micro-surgery monitoring.



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Food Safety Consortium

itdo@polyu.edu.hk



Innovation and Technology
Development Office
創新及科技發展處

Contact Us

Ir Steven LAM, Manager, Innovation and Technology Development Office

T (852) 3400 2864

E steven.tf.lam@polyu.edu.hk