

**Technology Title: Variable Resonance Acoustic Transducer**

**Contact Information:** Technology Partnerships Office  
NUWC\_NPT\_TPEO@navy.mil  
401-832-8728

Naval Undersea Warfare Center  
1176 Howell St., Newport, RI 02841

**SYSCOM:** NAVSEA

**TRL:** 3

**ABSTRACT**

**Keywords:** acoustic; transducer; bandwidth; efficient

Applicable to all acoustic transducers, active variable compliance (stiffening) is used to improve efficiency and bandwidth by controlling the resonance frequency of the projector. The open and short circuit stiffness of the active piezoelectric material is used to drive the projector resulting in increased resonance frequency and extended functional bandwidth. Protected under a U.S. patent application.

**THUMBNAIL**

Highly efficient, actively controlled acoustic transducer with increased bandwidth. Available for commercialization under a patent license agreement and Cooperative Research and Development Agreement. (CRADA).



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