ENHANCED LOW-FREQUENCY SOUND CALIBRATION **STRATEGIES FOR CINEMAS**





"Sound is 50% of the film experience" film director George Lucas ...but high-quality sound requires effective calibration strategies and a minimal spatial variance (SV).

Spatial variance is the measure of average seat-to-seat difference infrequency response.







This document is based on the research paper "Enhanced wide-area low-frequency sound reproduction in cinemas: Effective and practical alternatives to current sub-optimal calibration strategies" by Adam J. Hill, Malcolm O. J. Hawksford and Philip Newell. AES 57th International Conference, Hollywood, CA, USA, 6-8 March, 2015.

Adam Hill: a.hill@derby.ac.uk; Malcolm Hawksford: mjh@essex.ac.uk; Philip Newell: philiprnewell@gmail.com

