

Remote Building Vibration Measurement Under Ambient

Demonstration of remote, non contact vibration measurement of a building under ambient excitation us

Remote, Non-Contact Building Vibrometry Under Ambient Excitation

Capture low-frequency, low-amplitude building dynamics from street level with the Ommatidia Q2 mult

Q2 Concept for Building Vibrometry

The Ommatidia Q2 is an FMCW Laser RADAR-based, multibeam vibrometer that acquires 65 simulta

Test Setup and Workflow

Target: Geothermal system chimney, concrete and hollow, approximately 2 m x1 m x35 m. - Stand-off

Introduction

The dynamic characterization of buildings is challenging due to very low amplitudes and dominant frec

Results and Interpretation

Spectral analysis revealed peaks at 5 Hz, 10 Hz, and 110 Hz present in both vibrometer and accelerom

Practical Guidance

Site selection: Position on stable ground with clear line of sight and minimize local vibration coupling to

Evaluate Q2 for Structural Health Monitoring

Accelerate remote, non-contact diagnostics of buildings and civil assets. Request a demonstration or s