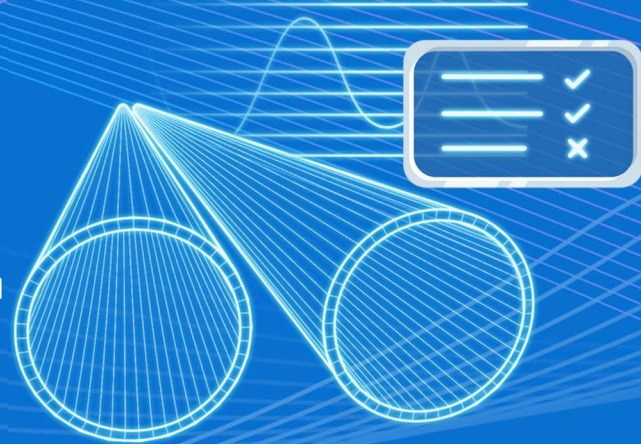


KenWave Solutions

Dynamic Response Imaging™



Who Are We?

KenWave Solutions, a subsidiary of Kenaidan Group and Obayashi Corporation, has established itself as a leading provider of data-driven solutions aiming to close the buried asset information gap. KenWave technology supports asset managers by providing reliable information on pipe stiffness, wall conditions, leaks, air pockets, and other anomalies to save utilities time, money, and water.



KenWave's experts are dedicated to offering innovative pipe assessment and leak detection solutions for metal, plastic, PCCP, cement, and other in-service pressure pipes. From water pipelines to industrial pipelines, KenWave has you covered with an innovative solution to meet your needs.

What is Dynamic Response Imaging™?

KenWave uses an innovative and patented dynamic-response solution to collect pipeline condition data across a wide variety of pipe materials and diameters. This non-destructive and non-invasive technology provides relevant pipeline condition and leak data at a resolution equal to or less than a pipe segment. The data helps asset owners, operators, and managers better understand the current condition of critical pipeline assets to make informed decisions on operations management, risk management, and budget planning.

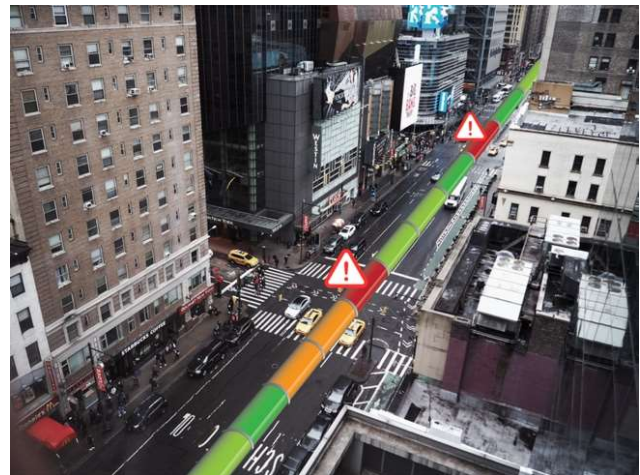
KenWave technology balances a cost-effective implementation with high-value outputs for decision-support purposes. We provide a valuable condition assessment method by converting vibration and acoustics into imagery to provide a holistic understanding of pipeline conditions.

How KenWave Technology Works

KenWave's patented dynamic response-based method allows for easy data collection of all standard pipe types, materials, and diameters, providing results down to a few feet of resolution.

In addition to the computational power of cross-correlation (well-known for its use in leak detection correlators), proprietary algorithms also use single-channel processing with state-of-the-art functions based on the latest research findings and dynamic response best practices, including time and frequency domain characterization.

Reporting is flexible and based on client requirements. A Condition Assessment report typically provides a table of results, including a stiffness profile (variation of stiffness along the length of pipe with a resolution of a few feet) and any detected leaks or air pockets. Additional outputs are available (e.g. remaining life estimates, failure risk analysis, etc.) from our engineering and asset management partners.



Dynamic Response Imaging™ Advantages

Applicable pipes	All standard pipes (metallic, plastic, cement, concrete, etc.)
Pipe operation	Performed while the pipeline is in usual operation
Ease of use	Mobile equipment temporarily attaches to the pipe surface or existing access points
Output	Pipe condition grading (including wall stiffness profile, colour coding and GIS); leak detection and other anomalies
Resolution	Resolution of a few feet, equal to or less than a pipe segment

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