SUBTERA

Pi

HANDHELD TERAHERTZ MEASUREMENT

Handheld Inspection

Pi is a handheld pipeline inspection tool developed primarily for the energy and processing industries. Pi enables rapid inspection of pipelines fitted with low thermally conductive insulation, and protected using non-metallic cladding.

Inspection data is transmitted wirelessly from Pi to a rugged laptop. The live inspection data is displayed simultaneously as a 2D image and line graph. The operator software enables recording, reviewing and storage of data for reporting purposes.

A replaceable battery maximises the available ON time, and the unit is stored in a rugged carry-case.

Introducing SubTera

SubTera is a UK technology company developing TeraHertz NDT solutions. SubTera provides related consultancy services, such as TeraHertz NDT feasibility studies and inspection process development.

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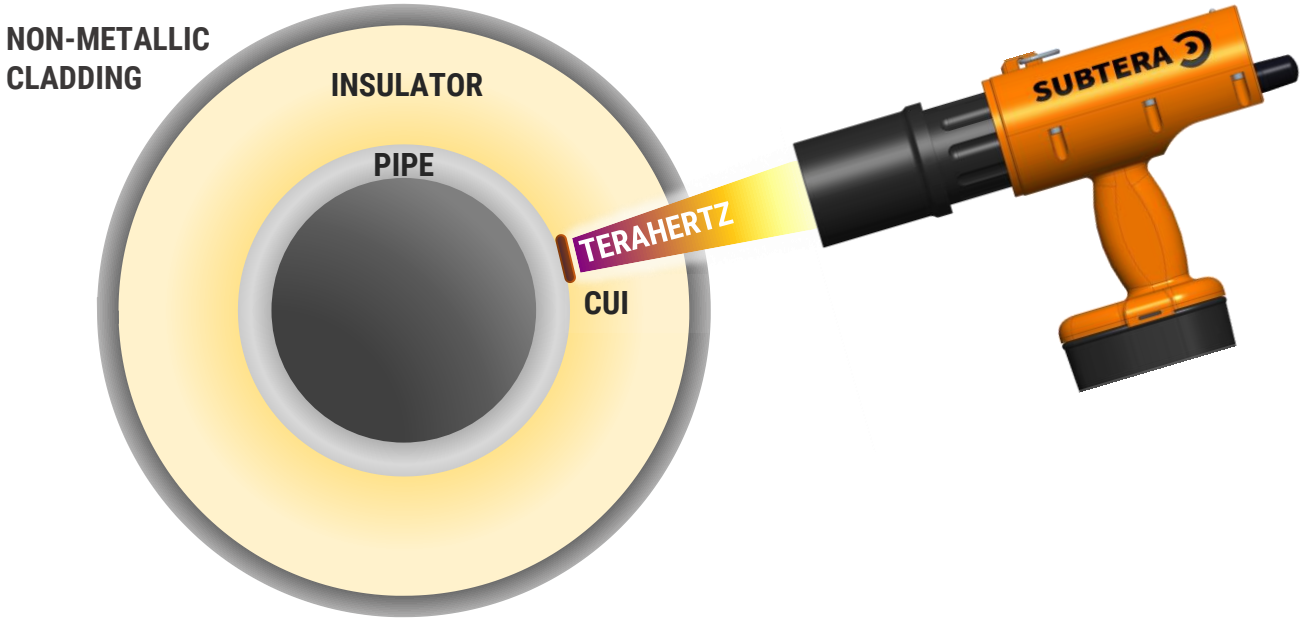
subterandt.com

Operating Pi

Pi detects anomalies (CUI, water etc.) concealed within and beneath insulation, on pipelines and vessels. The operator points Pi at the area being inspected and the data is viewed on the accompanying laptop. Pi measures the natural TeraHertz energy being emitted from the pipe and concealed anomaly.



Clean metals emit negligible amounts of TeraHertz energy. When heated, corroded metals and other hidden anomalies emit TeraHertz energy.

TeraHertz energy emitted by the concealed anomalies, passes through the insulation and non-metallic cladding.

Pi is moved over the pipeline, measuring this TeraHertz energy to locate anomalies.

Specifications

Dimensions (mm)	412 (Lmax) x 275 (H) x 110 (W)
Operating Temperature (°C)	5 - 45
Weight	3.7 Kg
Power	18 V DC
Environmental Rating	Designed to IP 67
Approvals	CE