

USM Vision

A Total Ultrasonic Weld Inspection Solution that Meets
Inspection Requirements More Efficiently and Cost-Effectively



The USM Vision from GE's Inspection Technologies business allows more efficient task sharing to achieve better utilization of personnel.



GE imagination at work

Benefits for Service Companies

USM Vision brings significant benefits for service companies, especially in terms of more efficient, cost-effective inspection and the optimization of employee capabilities.

Inspection is more efficient and cost-effective as USM Vision is an ultrasonic weld inspection solution which, unlike radiography, does not require time-consuming set-up or film development. Data acquisition can be carried out by semi-skilled-UT personnel, such as Level 1-qualified technicians, and results are displayed rapidly for remote expert assessment and sentencing.

Qualified inspection personnel are deployed to optimum effect as USM Vision brings a unique task-sharing capability to weld inspection. This allows non-ultrasonic specialists to create ultrasonic inspection workflows and to perform weld inspection, simply by following menu-directed instructions. Qualified ultrasonic inspectors are required only to assess original inspection plans and inspection results.

Health and Safety conditions are improved by the removal of any radiation hazard and the elimination of chemicals and waste materials.

Parallel tasking allows qualified inspectors to make optimum use of their time, as time not spent collecting data can be used validating inspection plans for future tasks and analyzing inspection data.

In addition, other tasks, such as welding and repair, can be carried out in the immediate vicinity of ultrasonic USM Vision inspections, unlike radiographic inspections, which require the immediate inspection area to be shielded.

Reliable, Code-Compliant Inspection Data

All accurate and reliable inspection data is compliant with accepted international codes and standards including but not limited to:

| | | |
|----------------|-----------------|---------|
| ASME V | EN ISO 17640 | DICONDE |
| B31.3 | EN ISO 10863 | |
| API 1104 | Pr EN ISO 13588 | |
| ASTM E 2373 | | |
| B31 Case 181 | | |
| Code Case 2235 | | |

Inspection Data which can be Archived and Shared

The inspection data generated by USM Vision is acquired, reviewed, shared and archived by the Rhythm software platform.

This greatly simplifies data management and traceability of the weld inspection documentation. The DICONDE standard guarantees the security of your electronic records, while the electronic data sharing increases the project turnaround time.

Worldwide Presence

USM Vision enjoys the support of GE's global network, which means that help is always close at hand to provide advice and service for your weld inspection operations.



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