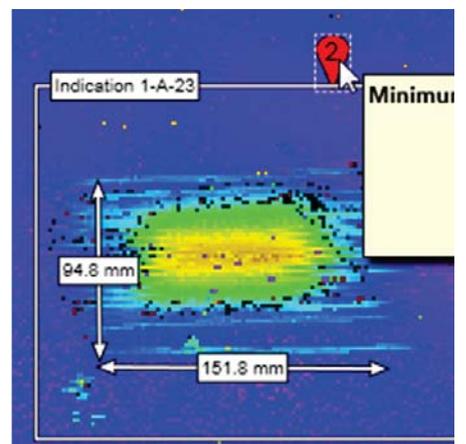
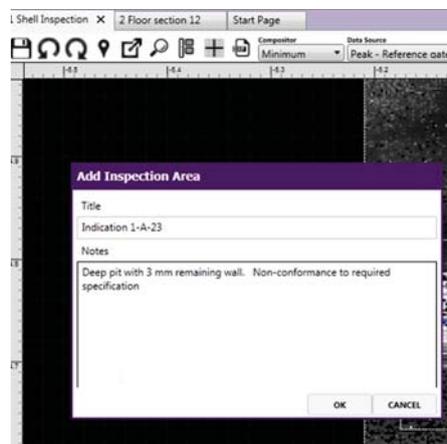
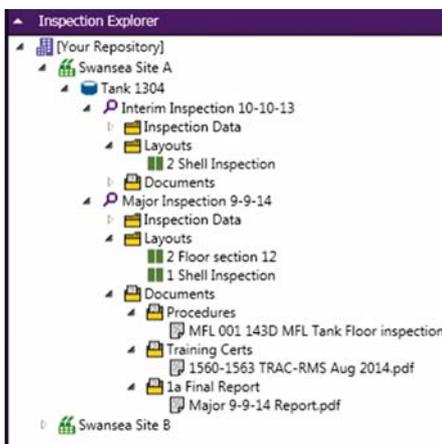
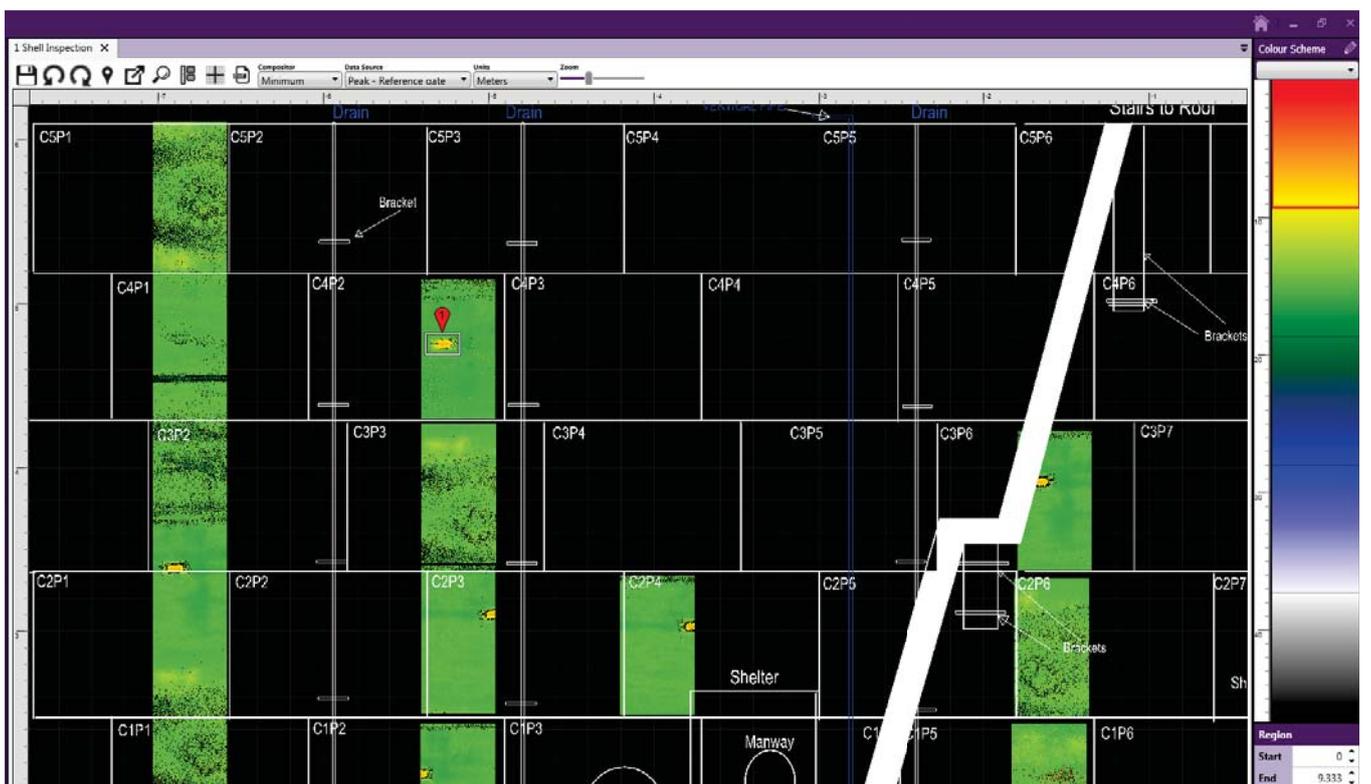


C-MAP

INSPECTION MANAGEMENT SUITE

C-Scan Stitching, Analysis and Archive



- > INSPECTION DATA MANAGEMENT
- > AUTOMATIC POSITIONING OF SCANS
- > FAST LAYOUT AND ANALYSIS
- > IMPORT CAD DRAWINGS
- > DATA ARCHIVING



C-MAP

INSPECTION MANAGEMENT SUITE

Silverwing's C-MAP software is an innovative solution to managing today's complex inspections, delivering a powerful and efficient data management environment.

C-MAP's unique approach enables inspection results from multiple disciplines and historical inspections to be easily viewed, analysed and shared.

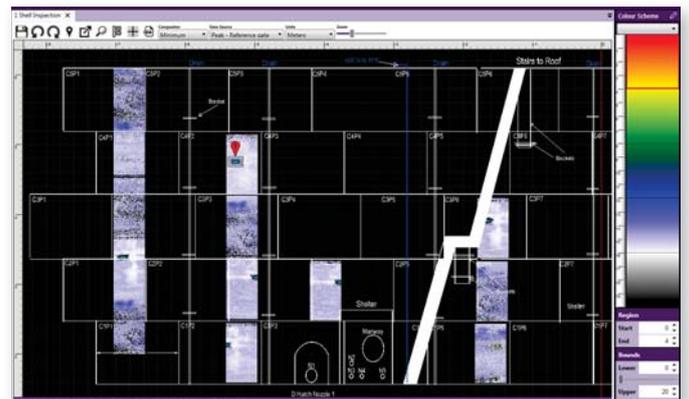
Developed as an inspection data hub, C-MAP gives you control over valuable inspection data to create a complete view of an assets condition.

KEY FEATURES

- > Fast, simple layout and analysis of inspection data
- > Automatic positioning of Scans based on X/Y data entered during acquisition
- > Import device data and images
- > Import CAD drawings in DXF/DWG format
- > Annotate inspection layouts with Areas, Markers & Measurements
- > Load and view historical inspections side by side for comparison
- > Automatic report generation
- > Measurement tools for sizing areas of corrosion
- > Real-time filtering and manipulation of data
- > Zoom into data to view fine details

C-MAP also solves the problem of managing the vast amount of data that can be collected from the latest inspection systems, giving easy access to detail results or large scale overviews.

It also provides a solid platform to develop advanced analysis capability by supporting a growing library of plug-in modules.



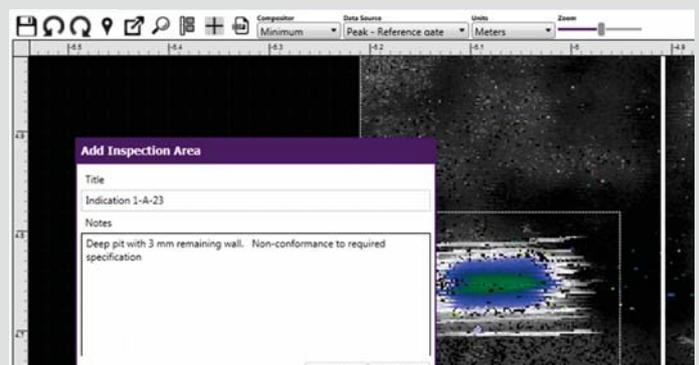
TANK SHELL

Tank shell inspection with RMS data

ANNOTATION OF DEFECT AREAS

Users can define areas of interest in a layout view for highlighting in reports, including comments from the inspection engineer.

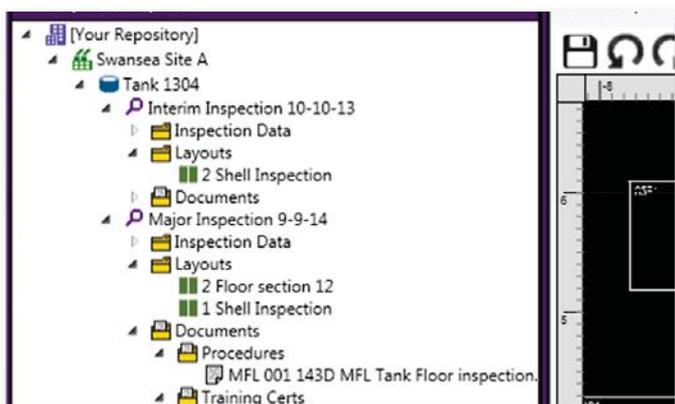
These Inspection Areas can then be tagged for inclusion in the report generator. Other tools such a measurement bars and dropped pins can also be added to provide further information and highlight areas for investigation.



CENTRAL LOCATION OF INSPECTION RESULTS

C-MAP's powerful inspection database is user configurable to reflect the asset structure within an organisation, or the client base for an inspection company.

Users can create multiple "sites" each with their own "assets" such as tanks, pipes and vessels then simply import all the associated corrosion inspection results, CAD drawings, images and work flow documents such as inspection procedures, technician qualifications and asset related information.



MULTI-LEVEL TREE FOR EASY NAVIGATION

Simple layout of Sites, Assets, Inspection Data & Documentation

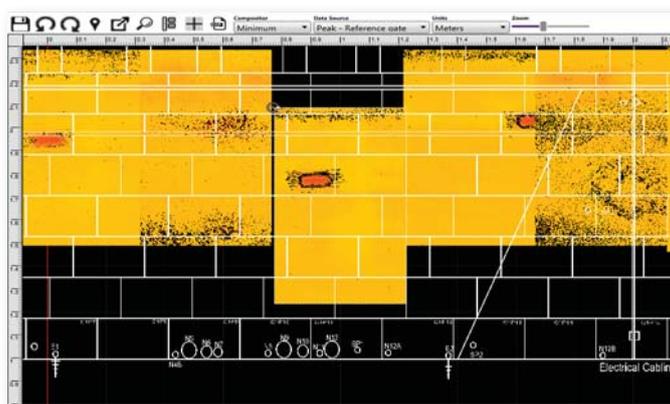
Once an "asset" such as a tank is created in the database, all associated inspection documents and measurement data can be imported creating a central data archive.

Each subsequent inspection of the asset can be added to the database making historical analysis easy, and ensuring valuable information is not lost.

EASY DATA STITCHING AND PLACEMENT

C-MAP can import data from Silverwing's range of corrosion mapping systems and automatically position each scan in the correct location building up an overall view of an inspection.

This significantly reduces time in creating reports and analysing inspection data. Once scans are "stitched" it is easy to investigate defects that may be present over 2 or more physical scans, with C-MAP automatically showing the minimum data when two scans are overlapped to ensure nothing is missed.



IMPORT CAD DRAWING

Overlay inspection result on CAD drawings

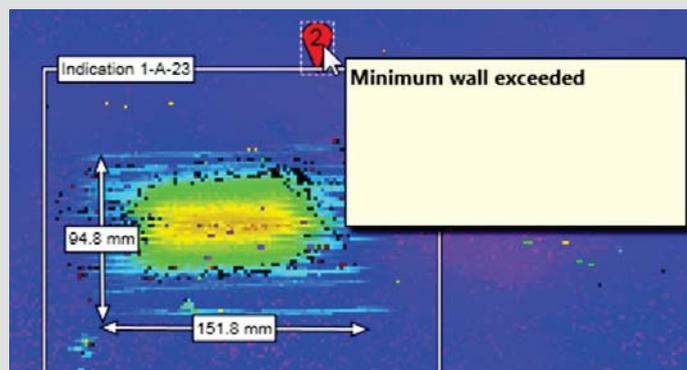
CAD drawings of the asset can be imported into the layout view and inspection results overlaid, making it easier to highlight areas of concern.

Images such as photographs can be imported to add further details to the inspection allowing engineers to make informed decisions on maintenance schedules.

MEASUREMENT TOOLS

C-MAP contains dimension tools to annotate defect areas. These dimension markers can overlap different scans and be used for defect sizing, or adding positional information from a reference point.

If an Inspection Area is drawn, the active cursor will show minimum, maximum and average within the defined box, along with actual thickness at the cursor point. Any measurements added will appear on printed reports, but can also be hidden via the layer control for clear data view.

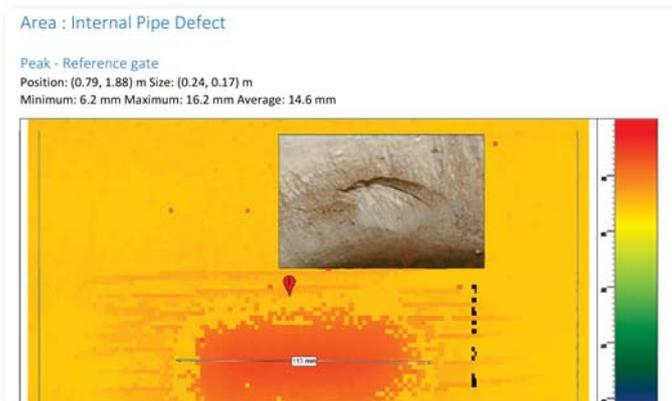




REPORTING TOOLS

C-MAP automatically creates inspection reports using a powerful configurator to place highlighted scans, CAD drawings, and layouts into a document that can then be edited with additional notes.

This saves significant time in creating inspection reports compared to the manual “cut and paste” often used. By using the Inspection Area tool, identified defect areas are printed in high resolution, and individual scans can be selected, with thumbnails on each page identifying the scan location on the asset.



INSPECTION REPORT

Customised inspection report function

Reports are created using a wizard which guides the user through a simple process of selecting layouts, scans, Inspection Areas and layers such as peak, surface and amplitude reference gates, or MFLi and STARS images.

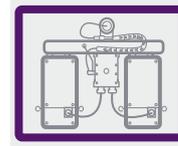
Once the report is complete it can be logged in the database for future reference.

THE SILVERWING SYSTEM

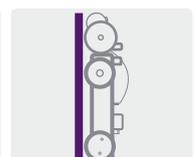
Silverwing produce a full range of equipment for corrosion inspection of storage tanks, including floor plate, wall and roof structures. The product range includes MFL mapping and manual systems, ultrasonic crawlers for thickness measurement, and vacuum boxes for weld inspection. By supplying a complete range we can offer unrivalled support, and ensure the highest quality inspection in the most efficient way. All our products are field proven by our in house teams and used by the most respected global inspection companies. For a complete overview contact our technical sales team.



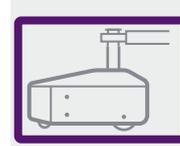
Floormap3Di



RMS2



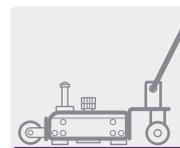
Scorpion



ThetaScan



R-Scan Lite



Handscan



Ultrasonics

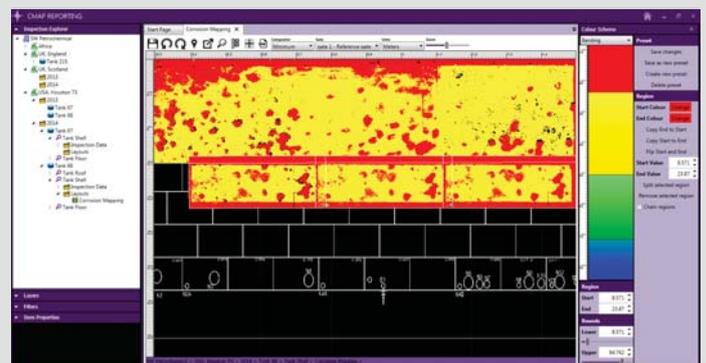


MFL3000

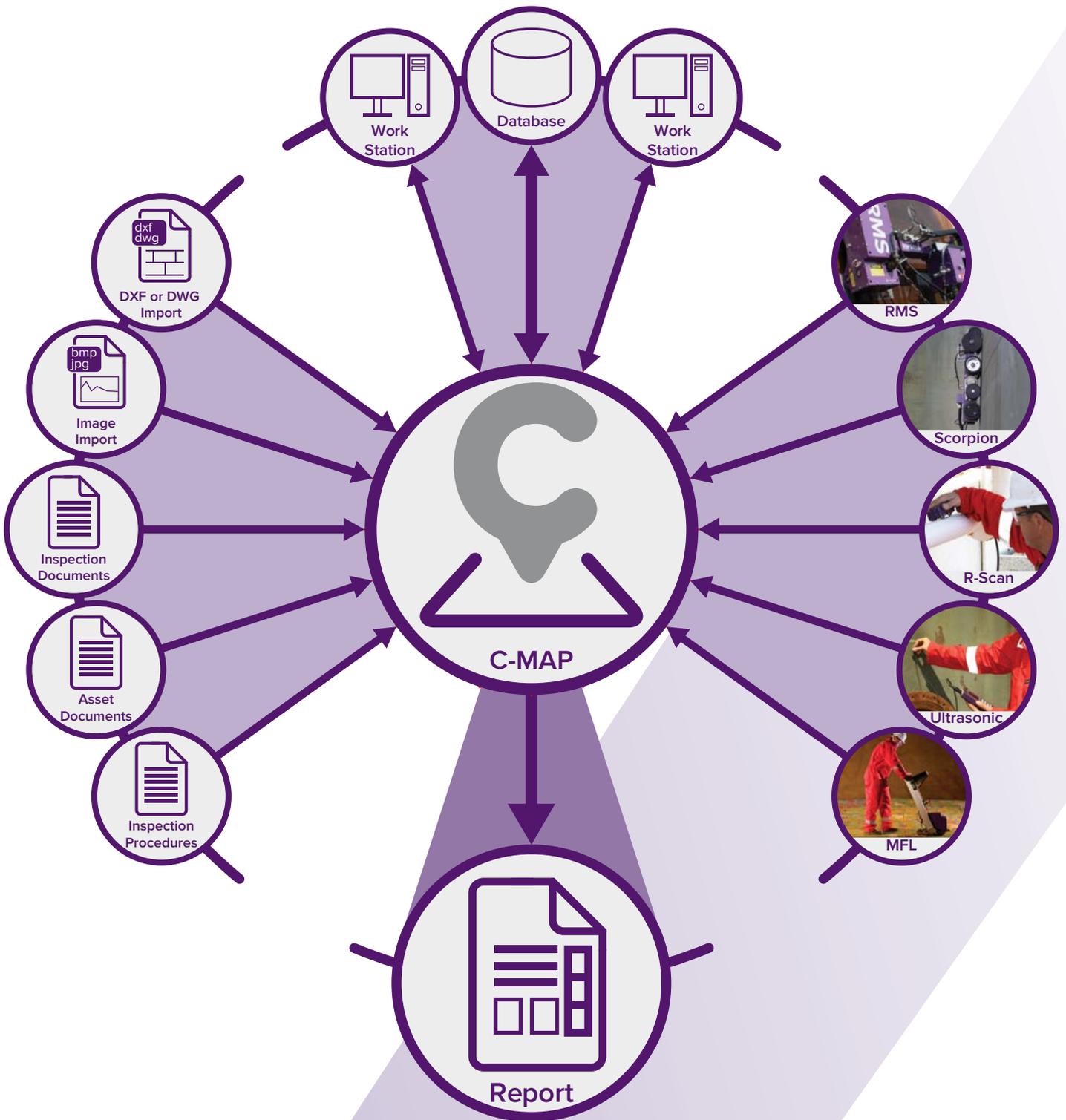
For more information on Silverwing Systems please visit our web site: www.silverwingndt.com

ADVANCED PALLETE TOOL

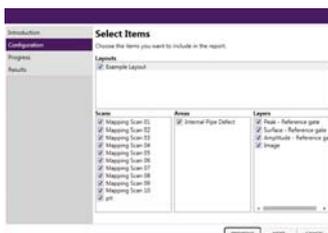
C-MAP has an advanced pallette tool with real time image updating irrespective of the size of scans. Using this feature it is easy to highlight different depths which, for example, can be used to reveal clear images of back wall pitting, or set simple acceptance thresholds to highlight areas outside of desired specification. The real time ability to update scans allows the user to reveal more detail about the inspection area as image patterns can be experienced.



C-MAP STRUCTURE



C-MAP REPORT GENERATION PROCESS



SELECT ITEMS

Select items to be included in the report



CUSTOMISE OPTIONS

Enter report details and add custom logo



PROGRESS BAR

Generate report



REPORT PREVIEW

Preview report prior to printing, or save as a Microsoft® Word® document

C-MAP SOFTWARE FEATURES

Database	Unlimited Site, Asset, Inspection elements
	Simple creation of new elements
	Multi-level tree for easy navigation
Equipment Data Interfaces	RMS
	Scorpion B-scan
	R-scan Lite
	MFL 3000
	Image (Jpeg, gif, png, bmp)
Scan Positioning	Floormap available 2015
	Absolute positioning based on global co-ordinates (RMS)
	Automatic grid based on file date or name
Scan Presentation	Manual drag and drop scans into position
	Overwrite mode to place high resolution scans onto low resolution
	Minimum/ Maximum thickness processing to ensure defects are visible on overlapped scans
	Show scans from different data sources on a single layout
CAD Overlay	Layer selection to show different gate measurements in a C-scan or MFL/MFLi modes
	DXF or DWG import
	Scaling adjustment to match data acquisition
Defect Identification Tools	Inspection Area marker with notes, minimum, maximum, average thickness display
	Dropped pin, selectable colours and notes
	Dimension lines, metric or inches
Palette	Colour selection, 24 pre-defined palettes
	User adjustable start, end and boundaries
	Design tools for custom palette creation
Reporting	Auto generation with selectable scan pages, inspection areas, scan layers
	Microsoft® Word® format for user modification
	Include client information and company logo
Document Import	Import any document format into the database. User requires suitable third party reader installed.
Data Export	Export scan region to clip board, paste to Microsoft® Excel®, etc
	Export thickness to comma delimited file
	Copy scan images to clip board
Other	Database export to transfer inspection files between users
	DICONDE compatible data format

COMPUTER REQUIREMENTS

Microsoft® Windows® 7, Windows® 8 32-bit or 64-bit operating system
Min 2 GHz Intel or AMD processor, 32-bit (x86) or 64-bit (x64) capable CPU.
1024 x 768 display resolution (1440 x 900 or higher recommended)
4GB RAM (6GB recommended for 64-bit)
100MB Hard disk space for installation, recommended 500GB for storage of tank data

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