



software

EMMA



is our powerful and intuitive
software designed for use
across our entire range
of electronics



Through innovation,
we surpass standard expectations

(SG) NDT
AN EKOSCAN COMPANY





EMMA is your new inspection partner for all Electromagnetic non-destructive inspections.



EMMA is an all-new comprehensive eddy current acquisition, data analysis and reporting software designed and developed for the most demanding industry experts, by industry experts at SG NDT.

EMMA is a powerful and intuitive software designed for use across the entire range of SG NDT electronics and supporting several electromagnetic methods, including:

- Eddy Current / Eddy Current Array
- RFT / RFT Array
- NFT / NFT Array
- MFL / MFL Array





μS2G2-ARRAY

A cross-platform software supporting all SG NDT flaw detectors, including:

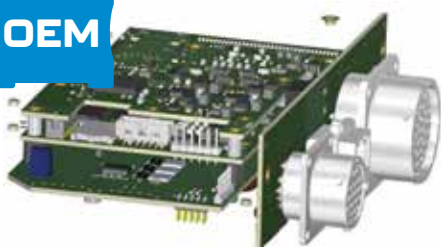


S2G2-WS
series



S2G2-800
series

S2G2-μS2G2-OEM
series



μS2G2-200i
series



EMMA software can be installed with just a few clicks on any desktop or laptop PC for comfortable data review and analysis.

Install EMMA on a laptop PC for increased field portability, EMMA can even be installed on a tablet PC for ultimate flexibility and portability.

A standard Ethernet cable is used to connect to the inspection instrument for a reliable and stable connection, and there is also an option to connect the EMMA software and electronics via Wi-Fi making for the most portable and flexible inspection system.



EMMA software

has been developed through many years of continuous research and development to support the most demanding of electromagnetic inspection applications, some of which include:

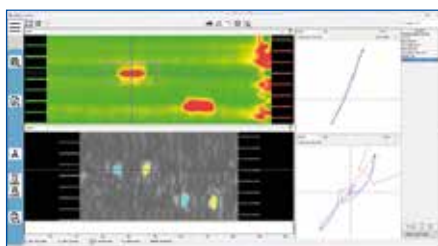
EMMA for Surface Inspection

Eddy Current Testing (ECT) and Eddy Current Array (ECA) surface inspections.

- Offers a “greener alternative” to MPI or LPI techniques with no consumables or harmful waste
- Rapid scanning of large areas or complex geometries
- Provides recorded, traceable inspection data
- Enables accurate measurements and data annotations
- 3D data visualization
- Encoder inputs for fully encoded C-scan data
- Quick and simple calibration for surface applications

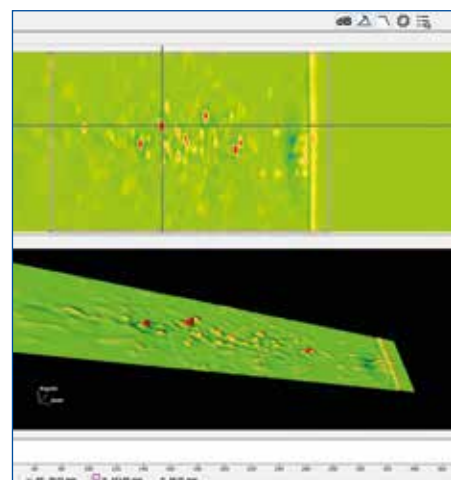
Applications include:

- Stress corrosion cracking
- Turbine blade surface inspection
- Turbine rotating component inspection
- Turbine dovetail slot inspection
- Surface and sub-surface corrosion detection and monitoring
- Ferrous and non-ferrous weld inspection



Crack length measurement done directly on the Cscan. The probe built-in encoder allows for accurate crack length sizing.

Butterfly plot display allows for easy measurement of the BX voltage drop for crack depth estimation.



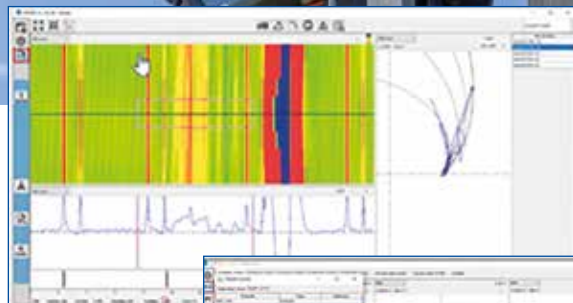
EMMA Software displaying pitting corrosion example.



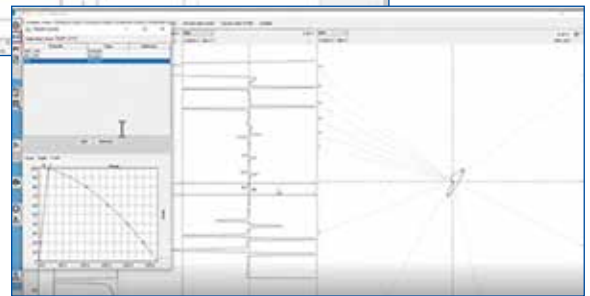
EMMA for Tube Inspection

EMMA is also a powerful accompaniment for any electro-magnetic tube inspection, supporting:

- Eddy Current Testing (ECT) for non-ferrous tubes
- Remote Field Testing (RFT) for ferrous tubes
- Near Field Testing (NFT) for finned air cooler tubes
- Magnetic Flux Leakage (MFL) for rapid inspection of ferrous tubes



RFA Mode



EMMA for Weld Inspections

EMMA software supports eddy current and eddy current array inspection for ferrous and non-ferrous welds of all configurations. Easily measure and assess crack length and depth using EMMA.



EMMA also supports advanced array-based tube inspection techniques like:







- Eddy Current Array (ECA)
- Remote Field Array (RFA)
- Near Field Array (NFA)
- Whatever inspection method you need to use, EMMA software is ready, offering unrivaled useability and technical capability.





Advanced features in EMMA include:

Customizable data presentation views to include:

-  Strip charts
-  Lissajou display
-  Tube inspection list and next tube indicator
-  Advanced depth curves and measurement tools
-  Simple, quick calibrations
-  Full reporting capabilities

NDT Analyzer: LabVIEW Software

NDT Analyzer is an ideal solution for configuring customized applications, such as in-line wire or tube inspections, that require greater software control and flexibility than can be provided in the standard EMMA interface. The LabVIEW and C++ drivers support machine integration, enabling seamless data and control integration across all platforms.

Remote control function in EMMA can be used for integration with your own software when supporting larger integration projects.

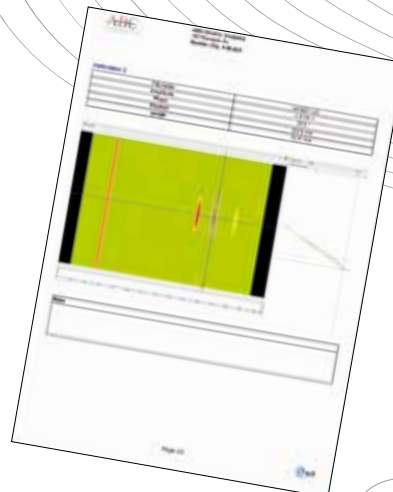


Report Generation with EMMA

The Inspection Report provided to the customer after a NDE inspection is the most important component of a successful inspection. As well as fulfilling technical and legal inspection requirements, the inspection report must also be able to convey critical information in a clear, understandable way to those who must review it in order to comply with the inspection requirements. SG NDT's EMMA software makes the process of producing such inspection reports easy, quick, and efficient.

EMMA Inspection Reports allow you to:

- Provide your customers with a professional, readable, value-driven inspection report
- Customise reports using your own company logo
- Customize the inspection data that you display in your reports
- Customize the layout of the data presentation



**Are you interested
in EMMA software?**

**Our team are ready
to answer your
questions.**

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