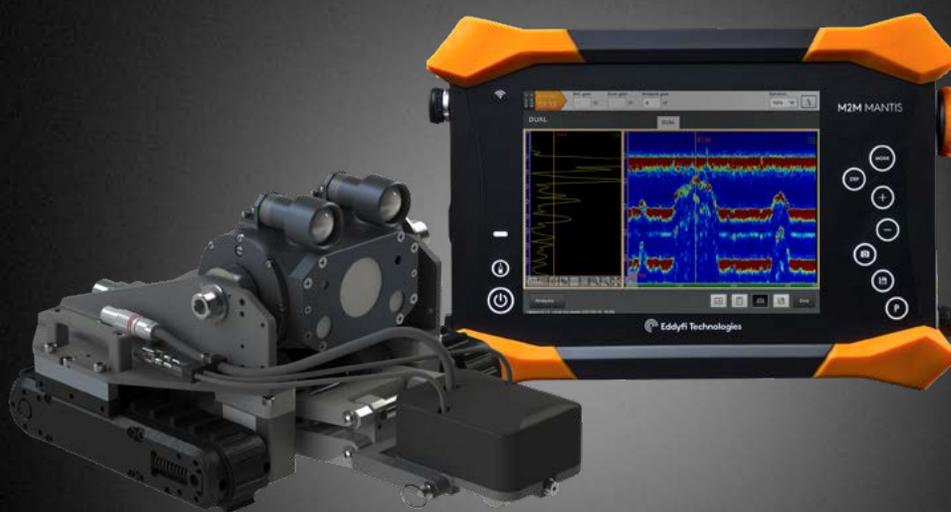


Magg™ 310 R-Scan

Remote Ultrasonic and Visual Inspections



A WORKING DUO THAT WILL GO THE DISTANCE

The Magg™ 310 with R-Scan adds ultrasonic (UT) inspection capabilities to hard-to-reach areas without jeopardizing the operator's safety.

Ultrasonic (UT) and Remote Visual Inspection (RVI)

The R-Scan package allows for the collection of UT wall thickness measurements as well as visual inspection up to a distance of 30m (98ft), making the Magg a unique and versatile inspection solution.

UT thickness measurements are collected every 1mm and displayed to the operator in real-time as a B-scan, A-scan trace, and thickness measurements. Compare to traditional spot readings, the R-Scan delivers a much higher Probability of Detection (PoD) with a reliable, recorded, and auditable data set and all from a safe location.

The Magg can be used as part of a regular maintenance and monitoring operation or to troubleshoot a problem quickly in an emergency.

Ultimate magnetic crawler

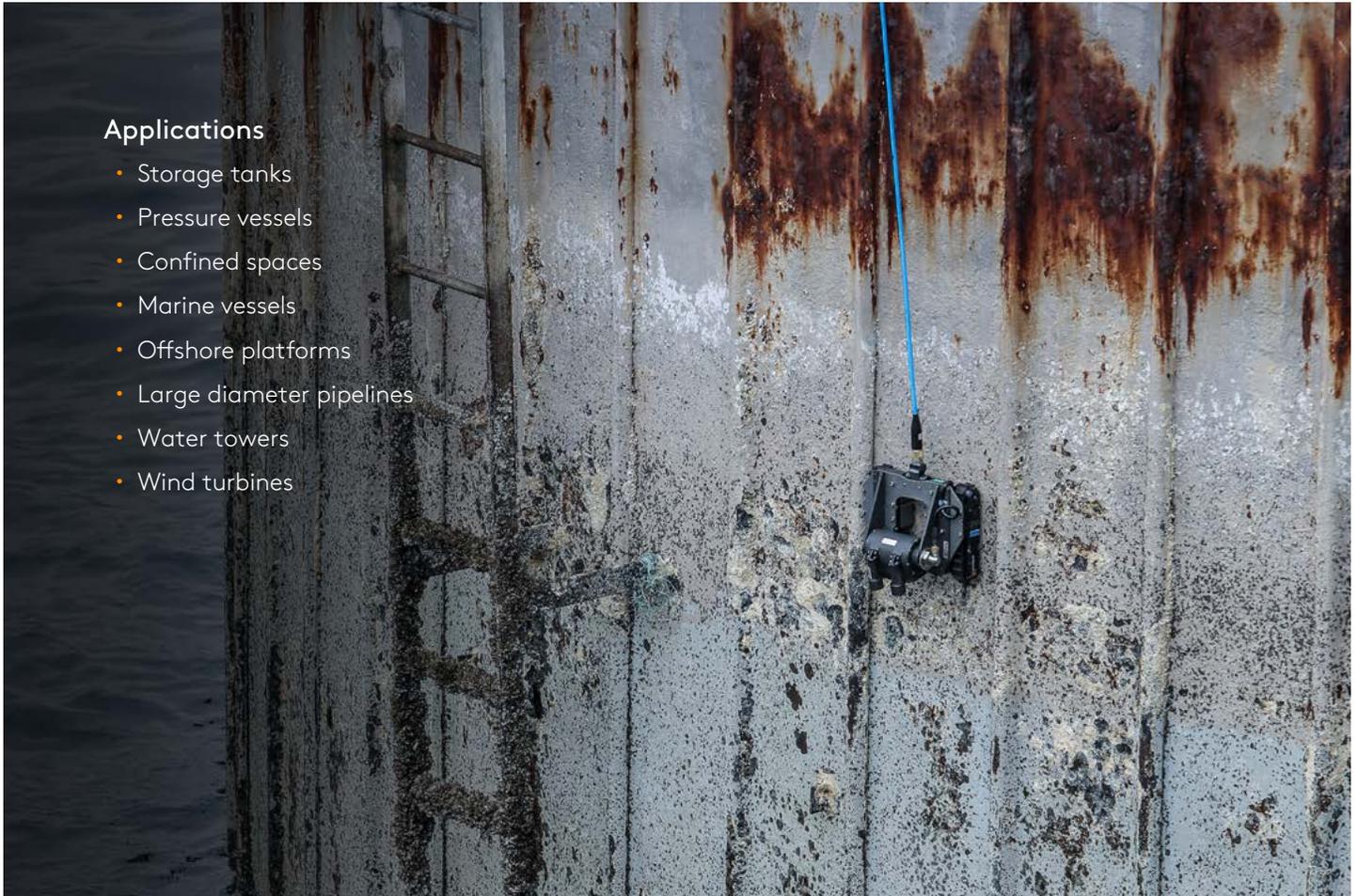
The Magg 310 is a proven and reliable remote inspection crawler system designed to withstand harsh conditions and industrial environments.

With its industry-leading tracks, the Magg can quickly and easily navigate critical restricted access areas, whether the surface is clean or close to unpracticable. The unique combination of raw power, agility, and magnetic downforce allows the Magg to accomplish inspections that most wheeled vehicles and crawlers could not.

Any owner or service provider required to perform ACFM or RVI in confined spaces with limited access needs to add the Magg as an essential part of their NDT toolkit.

Applications

- Storage tanks
- Pressure vessels
- Confined spaces
- Marine vessels
- Offshore platforms
- Large diameter pipelines
- Water towers
- Wind turbines



MAKING THE MOST OUT OF YOUR EQUIPMENT

Combining field-proven solutions to overcome the most challenging applications.

R-Scan with dry-coupled ultrasonic probe

Designed to be used in remote locations and harsh petrochemical environments, the R-Scan utilizes a unique dry-coupled ultrasonic (UT) wheel probe, eliminating the need for couplant or constant water supply, making it the ideal partner for the Magg.

The probe, a dual crystal 5 MHz ultrasonic transducer with a unique rolling probe face, can measure material thickness ranging from 2.5 mm up to 100 mm (0.1 in up to 4 in).

The R-Scan scanning head is fitted with an encoder to provide accurate positional information during an inspection. Magnetic wheels assist when scanning vertically or if inverted by minimizing the possibility of encoder slippage.



Rugged inspection camera

The fully integrated HD continuous tilt camera allows incredible details and clarity. Whether your close, far, underwater, or in a dark tank, the image will provide you with an astounding amount of detail.

The Magg 310 comes with auxiliary lighting, lasers, 10x optical zoom, and much more. From top to bottom, the system has been uniquely optimized to allow a clear image streamed in a matter of milliseconds, allowing real-time decision-making.

Mantis™ ultrasonic instrument

Made for the field, the Mantis is one of the most robust and reliable industrial ultrasonic instruments ever produced by Eddyfi Technologies, thanks to careful consideration of the highly durable materials chosen.

The innovation behind the Mantis is continually driven by market applications. This robust tool benefits from advanced algorithms through powerful embedded software.

Mantis not only offers conventional UT but more advanced PAUT, ToFD and TFM all through its streamlined user interface, Capture™. With three different models, Mantis addresses both general and advanced applications without compromising productivity.



Robotic NDT solutions

Eddyfi Technologies offers a range of standard, off-the-shelf, proven robotic NDT solutions to inspect critical components in difficult to reach locations or confined spaces, reducing the risks to inspection personnel.

Built with a multi-mission modular design approach that enables the delivery for bespoke remote operations using multiple NDT techniques, including Ultrasonics (UT), ACFM, Eddy Current (EC), Magnetic Flux Leakage (MFL) and more.

Talk to our experts to discuss which robotic crawler is best suited for your application.

SPECIFICATION

WHATS INCLUDED

Crawler controller	ICON Controller (IPC)
NDT instrument	Mantis 16:64PR
Software	ICON STD SS1 Capture SS1
Crawler	Magg310 with NDT option
Tether length	30m (98ft)
NDT package	R-scan for the Magg 310 with 30m cable

MAGG 310

Maximum scan speed	3.6m (11.8ft) per minute
Tether length	30m (100ft)
Depth rating	60m (without the probe)
Weight	10.9kg (24lb)
Dimensions	310 × 295 × 200mm (12.2 × 11.6 × 7.9in)
Camera	160° pan, FHD, 10x opt. zoom, 12x dig. zoom
Lighting	LED auxiliary lighting
Mounting	Universal actuator

IPC

Operating power	Input: 100-240VAC, 50/60Hz Output: 70VDC, 450W Max
Computer	i7-8650U, 16Gb DDR4+2666, 500Gb SSD
I/O	1x USB 3.0 1x USB 2.0 Gigabit Ethernet 1x HDMI auxiliary video and RS485 1x Tether connector
Display	17,3" touchscreen FHD, 1000 nits
Control	Remote Controller Mouse/Keyboard
Weight	24kg (53lb)
Dimensions (W × H × D)	620 × 492 × 223mm (24.4 × 19.4 × 8.78in)

R-SCAN

Dimensions (W × H × D)	65 × 54 × 122mm (2.5 × 2.1 × 4.8in)
Weight	1.8kg (4lb)
Adhesion	Magnetic wheels and Magg or hand pressure
Transducer	5MHz twin element dry-coupled
Near-surface resolution	2.5mm (0.1in)
Material thickness range	2.5mm (0.1in) - 100mm (4in)

MANTIS

Dimensions (W × H × D)	311 × 220 × 86mm (12.2 × 8.7 × 3.4in)
Weight (with battery)	3.7kg (8lb)
Display	8.4" high contrast resistive screen
Resolution	1024 × 768 px

The information in this document is accurate as of its publication. Actual products may differ from those presented herein. © 2021 Eddyfi NDT, Inc. Crystal Cam, IM3, MaggHD, Versatrac, and their associated logos are trademarks or registered trademarks of Eddyfi Robotics. (wholly owned subsidiary of Eddyfi NDT, Inc.) in Canada and/or other countries. Eddyfi Technologies reserves the right to change product offerings and specifications without notice.