

EDITION 13 • SEPTEMBER 2025

KEY EQUIPMENT



BEYOND THE BATTERY THE ELIOS 3 TETHER.

New Feature

Fly With Confidence. Return With Ease.

Page 2

Case Study

Elios 3 Proves Its Worth In Zimbabwe Gold Mine

Page 3

Solutions

Confidence in Every Scan. Portable X-Ray Package

Page 9



The Elios 3 tether unit delivers continuous power for long, stress-free operations. By connecting to a wall outlet, generator, or compatible portable power station, it converts 100–240 V AC into high-voltage DC, delivered to the drone through a 50 m (164 ft) Kevlar®-reinforced cable. With steady power from the ground, pilots can eliminate mid-mission battery changes and stay focused on the inspection.



VIDEO

FEATURES



Anti-Flip Swivel



Easy Tether-to-Battery Swap



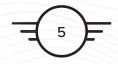
Kevlar-Reinforced Tether Cable



Backup Battery



Worldwide Power Compatibility



EU C5 Classified

THE ELIOS 3 SMART RETURN-TO-HOME FEATURE

Flyability, the leader in confined space drone inspections, has introduced a Smart Return-to-Home (RTH) feature for its flagship Elios 3 drone, setting a strong foundation for the future of autonomous inspection technology.

This powerful function allows Elios 3 pilots to command the drone to autonomously navigate back to its take-off point using the safest, most efficient route, while dynamically avoiding obstacles along the way. By continuously monitoring battery levels through an intuitive flight management gauge, Smart RTH ensures that inspectors maximize flight time while maintaining confidence that the drone will return safely.

The feature is activated through Flyability's Cockpit app, giving operators full flexibility. At any point, the pilot can retake manual control if needed, but with Smart RTH handling the return journey, more attention can be devoted to the inspection itself. This removes the stress of battery management and reduces risk when operating in complex industrial environments such as tanks, pressure vessels, boilers, culverts, or underground structures.

What makes Smart RTH a breakthrough is its integration with Elios 3's advanced autonomy engine. Using real-time LiDAR scans processed by the FlyAware mapping system, the drone can interpret its surroundings, generate a safe flight path, and autonomously execute it. This capability not only enhances current missions but also opens the door for future upgrades in autonomous navigation, including collision avoidance and intelligent obstacle recognition.

Heres what Adrien Briod, Flyability Co-Founder and CTO said:

With Smart Return-to-Home, the Elios 3 can autonomously navigate even the most complex industrial spaces, surpassing the capabilities of other inspection robots. This is a major step toward fully autonomous confined-space inspections.

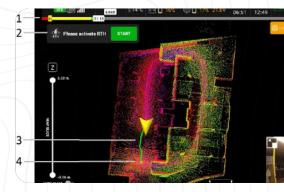


Image: Smart RTH has additional elements available in Cockpit enabling its function. Refer to the screenshot and numbered descriptions:

- The flight management gauge displayed in Cockpit provides a visual representation of the drone's remaining flight time. Each color represents each stage of the remaining flight time.
- Tap the Return to Home button for the feature to engage. This can be initiated once the button is green or orange. Cockpit will also suggest its selection based on the safety buffer selected.
- Path computation -the Smart RTH function continuously calculates and displays the shortest way to the take off point. This route is displayed in green for visibility.
- 4. Take-off point the yellow H-icon on the live map indicates the take-off location.





GammaTec recently showcased the power of the Elios 3 confined space drone at one of Zimbabwe's leading gold mines, delivering a breakthrough demonstration that left the customer amazed.

The test focused on inspecting confined stopes deep within the mine, a challenging environment where traditional methods fall short. The goal was to generate a full 3D point cloud using the Elios 3 equipped with its advanced survey payload.

In a quick seven-minute demo flight, the Elios 3 achieved more than 90% coverage of the target area. By comparison, the mine's current scanning technology only manages around 40% coverage on average, Traditional scanning methods also require several points of entry, making the process time consuming & incomplete even after multiple scans combined.

Beyond mapping, the Elios 3 provided a complete visual inspection, capturing high quality video recordings and imaging throughout the flight. This allows mine teams to conduct detailed reporting with both 3D data and visual evidence in one workflow. The drone also has the capability to detect potential blockages and hazards, giving survey and planning teams another layer of insight that hand scanners simply cannot deliver.

The Elios 3 effortlessly navigated through tight, inaccessible areas, capturing a comprehensive 3D dataset in a fraction of the time. This not only improves efficiency but also eliminates the risks associated with sending personnel into dangerous confined spaces.

For the mine, this demonstration showed a clear leap forward in safety, accuracy & productivity. The Elios 3 provides access & insight that existing tools simply cannot match, setting a new standard for underground inspections in mining.

GammaTec is proud to bring world class inspection technology to another African mine, helping operations push beyond traditional limits while keeping safety & precision at the core.

Ready to See the Elios 3 in Action?

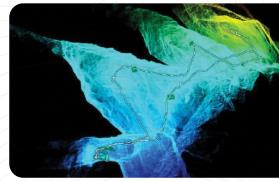
If your operation is still relying on traditional scanning methods, now is the time to upgrade. Contact GammaTec today to book a live demo or discuss how the Elios 3 can revolutionise your inspections.



Image: The GammaTec crew preparing the Elios 3 before launch — showing how confined space inspections can now be done safely without risking personnel underground

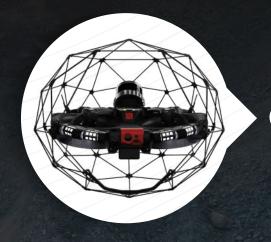
VIDEO TBA

Live drone footage inside the stope – clear evidence of how the Elios 3 delivers both navigation and visual inspection through inaccessible areas



3D point cloud generated in only seven minutes – proof of unmatched coverage and accuracy compared to conventional hand scanning methods

COMPLETE MINING SOLUTION



ULTRASONICS

Advanced Phased Array & TFM – Provides high-resolution imaging for defect detection in welds, composites, and complex materials.

Powerful Data Processing – Faster, more detailed inspections with real-time imaging and reporting capabilities.



THICKNESS

Multiple-Echo Technology – Measures through coatings without removal, preserving material integrity.

High Durability – Shockproof, waterproof, and built for extreme industrial conditions.

DRONES

Access Hard-to-Reach Areas – Navigates confined spaces like stopes, ore passes, and conveyor belts without endangering personnel.

LiDAR 3D Mapping – Generates precise 3D models of mine tunnels, enabling better planning, structural assessments, and volume calculations.



HARDNESS

Fast & Accurate Measurements – Uses advanced Leeb rebound technology for precise hardness testing.

Versatile Application – Suitable for metals, large components, and rough surfaces.



EVENTS



3 - 4 Sept '25

ANGOLA OIL & GAS CONFERENCE

Centro de Convenções Talatona Luanda, Angola.



15 - 19 Sept '25

MINING & TECHNICAL EXHIBITION (MTE)

15 Sept Kalumbila Zambia 17 Sept Solwezi Zambia 19 Sept Kitwe Zambia



We had an incredible time at the MTE Show in Limpopo, Steelport, and Mpumalanga, Ngodwana (7th Aug). Where our specialists, Phendile Ngunyula, Julie van der Merwe and Alfred Kelly-Gliddon, showcased why Gammatec is "Your One Stop NDT Equipment Supplier!





31 July '25

MINING & TECHNICAL EXHIBITION (MTE)

Limpopo, Steelport



We are proud to be part of UJ's 100 Years of Mining Education celebration, where Jan-Albert Viljoen and Alfred Kelly-Gliddon showcased Gammatec's top-tier mining equipment.





22 Aug '25

UJ MINING SUMMIT

UJ, Johannesburg



RUGGEDNESS SIMPLIFIED-

The Exertus Fortes Projector has the ability to accept Iridium 192 sources or Selenium 75 sources. This projector incorporates design and safety features that make it flexible, compact & lightweight. The Projector is lighter than most of its competitors. It incorporates an improved source channel, based on a helicoidal design, which makes maintenance easier.

KEY FEATURES



USER FRIENDLY OPERATION



CAN ONLY BE LOCKED AND DISCONNECTED WITH SOURCE IN SAFE POSITION



ACCEPTS IR-192 OR SE-75



TUNGSTEN SOURCE CHANNEL



JUST 23KG WITH JACKET



COMPACT DESIGN



2 COLOUR SIGNAL SAFETY INDICATOR



AUTOMATIC SOURCE ASSEMBLY LOCKING MECHANISM



- The helicoidal design also allows smoother movement of the source assembly inside the device, making it easier for the operator and improving safety. The Exertus Fortes is ISO3999:2004 compliant.
- The exposure container and link type source assembly meet the requirements of ISO 3999: 2004 and IAEA SSR-6 (2018) as well as the surface and 1m ambient dose rate measurements required by these standards
- The weight of the projector varies depending on whether the jacket is included or not. With jacket, it weighs 24.5kg, and without jacket, it weighs 21.6kg
- The weight of the depleted uranium shielding is 14kg. The activity of the depleted uranium shielding is 4.7mCi (174MBq).
- The materials of construction for the projector include a tungsten source channel & labyrinth, DU shield, 300 series stainless steel housing, aluminium, brass, titanium, and an optional jacket made of polyurethane.



- Isotopes are variants of a particular chemical element which differ in neutron number.
- All isotopes of a given element have the same number of protons but different numbers of neutrons in each atom.
- Gamma radiation sources, most commonly iridium-192, selenium-75 and cobalt-60, are used to inspect a variety of materials.
- The vast majority of radiography concerns the testing and grading of welds on pressurised piping, pressure vessels, high-capacity storage containers, pipelines, and some structural welds.
- Radioactive sources are manufactured, stored and loaded at specialised facilities. These facilities consist of hotcells, robotic arms, welding machines and ultrasonic baths.
- Sealed sources/ Isotopes are loaded into a "source assembly" (pigtail).

INDUSTRIAL ISOTOPES

SELENIUM 75 (SE.75)

Se.75 is increasingly used for radiography of piping butt welds between 5 and 30mm thick. The lower energy range produces radiographs with higher resolution and also makes the source useful in Close Proximity Radiography (CPR).

Distance from a 30Ci unshielded source to achieve $10\mu Sv/h$ at the barrier is 78m. This can be reduced to 1.5m with CPR Shielding.







IRIDIUM 192 (IR.192)

Ir.192 is the most widely used source, mainly for radiography of piping butt welds between 10 and 90mm thick, as required by various Codes and Standards.

Distance from a 30Ci unshielded source to achieve 10 μ Sv/h at the barrier is 120m.





Steel Penetration



COBALT 60 (CO.60)

Co.60 is used for heavy section (up to 200mm thick) radiography of pressure vessels and castings.

Distance from a 30Ci unshielded source to achieve 10 μ Sv/h at the barrier is 197m.









A TEAM WITH OVER 25 YEARS OF COMBINED EXPERIENCE



MULTIPLE MANUFACTURING FACILITIES



SHIPPING TO OVER 60 APPROVED COUNTRIES

FILM

S DIGITAL

Radiographic testing can be performed using two primary methods: the traditional approach, which uses **photographic film** to capture images, and the modern method, which replaces film with digital detectors for **real-time image capture** and processing.







THE DIFFERENCE

| Film Radiography | Aspect — | Digital Radiography |
|-----------------------------------|--------------------|--------------------------------------|
| Photographic Film | Image Capture | Digital detectors |
| Slow (manual chemical processing) | Processing Time | Fast (instant electronic processing) |
| Fixed high-resolution | Image quality | Adjustable, enhanced quality |
| Lower initial, higher recurring | Cost | Higher initial, lower recurring |
| Chemical waste | Environment Impact | Eco-friendly |
| Physical storage required | Storage | Digital, easily accessible |

THE BENEFITS

Film Radiography

High Resolution: Offers excellent image detail, especially for fine defects.

Cost-Effective for Small-Scale Use:

Suitable for occasional testing with limited equipment investment.

Long-Term Storage: Physical films can be archived for decades.

Digital Radiography

Speed: Instant image capture and processing.

Enhanced Image Quality: Adjustable brightness, contrast, and zoom for better defect detection.

Eco-Friendly: No need for film or processing chemicals.

DARK ROOM BENEFITS



Controlled Environment for Film Processing

Provides a light-proof setting to prevent accidental exposure of radiographic films.

Ensures the quality and clarity of developed images, which is critical for accurate defect.



Enhanced Image Quality

Proper development and fixing processes in the darkroom result in high-contrast and detailed radiographic images.



Consistency and Repeatability

Standardized processing conditions improve consistency across multiple tests, ensuring reliable results.



THE PROCESS OF VIEWING FILM

- The process involves the use of radiation, such as X-rays or gamma rays, to penetrate the test material and create an image that reveals flaws or structural inconsistencies.
- An image is created on the film that can be revealed by processing in a darkroom. The resulting image is a physical item that can be viewed on a viewer.

METHODS

- Industrial viewers are used for film examination.
- To view a film, the operator simply powers on the unit and places the film on the illuminated screen.
- The dimmer control is activated when the foot switch is pressed, allowing the viewing intensity to be adjusted and maintained at the desired level.



PORTABLE X-RAY SYSTEMS PACKAGE







X-RAY GENERATOR, DETECTOR AND SHERLOCK NDT SOFTWARE

ALL IN ONE PACKAGE!

DIGITAL RADIOGRAPHY SOLUTIONS FOR NDT APPLICATIONS



Pair the X-Ray generators (CP Series or CP Batteries), with the GO-SCAN detectors and get:

- Sharp, clear, and high-quality images.
- Obetailed defect detection such as cracks, corrosion and failing welds.
- ✓ Confidence in inspections fast, reliable, and industry-proven results.



Sherlock NDT Software – The Perfect Link that connects seamlessly with the CP Series portable X-ray generators and the high-resolution GO-SCAN digital detectors.

- **⊘** Intuitive & user-friendly touchscreen software.
- Real-time video acquisition for faster inspections.
- **∀** High-quality images + advanced enhancements.

KEY EQUIPMENT

MAPPING & GEOSPATIAL

Professional Multirotor Drone



X500 CHCNAV

A professional drone engineered for exceptional payload capacity and endurance. Equipped with advanced flight controls and high-precision positioning, it delivers superior maneuverability, stability, and flight performance.

Handheld SLAM 3D Laser Scanner + GNSS RTK



RS10 CHCNAV

The RS10 integrates GNSS RTK, laser scanning, and visual SLAM technologies into one single platform. This fusion increases the efficiency and accuracy of both indoor and outdoor 3D scanning and surveying tasks. It gives surveyors the ability to work in areas with weak GNSS signals, providing unparalleled flexibility.

Advanced LiDAR Data Processing Software



CoProcess CHCNAV

A Groundbreaking, ATEX-Approved Instrument, With Dual Probe Capabilities. Using Either A Geiger Muller (GM) Or A Scintillator. The Instrument Enables Users To Monitor NORM (Naturally Occurring Radioactive Material) In All Conditions For The First Time.

UAV LIDAR SOLUTIONS



AlphaAir 450 CHCNAV

The CHCNAV AlphaAir 450 is very likely the best UAV LiDAR solution with integrated Livox Avia. The AlphaAir 450 is a major breakthrough in the democratization of mobile mapping technology, allowing its use by non-professional users in the geospatial reality capture industry and to those who have never been able to access such technology before.

Professional Airborne LiDAR+RGB System



AlphaAir 10 CHCNAV

A professional airborne LiDAR+RGB system designed to meet the demanding requirements of UAV LiDAR mapping and drone photogrammetry. This advanced solution integrates superior LiDAR technology with accurate GNSS positioning, IMU orientation, and a professional full frame orthophoto camera.

Professional Airborne LiDAR+RGB System



AlphaAir 9 CHCNAV

An advanced aerial surveying solution that seamlessly integrates LiDAR and RGB sensors to meet the needs of professional UAV LiDAR mapping and drone photogrammetry.

ROBOTIC CRAWLERS & TRACTORS

Vertical Pipe Crawler



VETOLNEXXIS

A versatile, user-focused robotic inspection system designed to navigate vertical pipelines and integrate with a wide range of payloads. Utilizing fiber optic technology for reliable, high-bandwidth communication and power delivery, it supports various applications with customizable XTRAX materials (Steel, Aluminium, or Brass).

Magnetic Surface Crawler



SNOWCAT NEXXIS

A rugged, magnetic crawler designed for high-definition remote visual inspections (RVI) in challenging environments, including topside and subsea. Featuring a 360° tilt camera, powerful LED lighting, and intuitive Nexxis control software, it enables fast, high-quality inspections with real-time video and sensor data logging.

Vertical Pipe Crawler



PANTHER NEXXIS

A compact, modular pipe crawler designed for confined space and pipeline inspections, capable of navigating vertical and inverted ferrous surfaces with a magnetic attachment. It features full HD PTZ cameras, a 100m tether (extendable), and operates in pipes as small as 8".

Nexxis Designed Software



JUICE BOX CONTROLLER
NEXXIS

This controller provides has a mouse and joystick that controls the function of the robotic crawlers mallowing complete remote operation of the system. All sensor data is automatically logged during an inspection, and can be included with the final video (or still images) using the NCS 2.0 reporting software.

Crawler Tracks



XTRAX Omni NEXXIS

The XTRAX Omni is available in three premium material options: Aluminium, Brass, and Stainless Steel. Each material is carefully selected to provide the ideal balance of strength, durability, and performance for demanding inspection environments. Aluminium offers a lightweight and versatile solution, Brass delivers superior resistance in high-wear conditions, while Stainless Steel provides maximum durability for the toughest applications. This flexibility ensures that the XTRAX Omni can be tailored to meet the specific needs of any inspection challenge.

RADIATION SAFETY EQUIPMENT

Contamination Monitor



NORM-IS TRACERCO

A Groundbreaking, ATEX-Approved Instrument, With Dual Probe Capabilities. Using Either A Geiger Muller (GM) Or A Scintillator. The Instrument Enables Users To Monitor NORM (Naturally Occurring Radioactive Material) In All Conditions For The First Time.

Contamination Monitor



T401 TRACERCO

The Robust Handheld Radiation Contamination Monitor Is Designed For Detecting And Measuring Radioactive Contamination. It's Reliable, User-Friendly, And Cost Effective. Featuring Operational Reliability, Direct Surface Activity Mode, And Peak Reading For Easier Monitoring.

Intrinsically Safe Dose Rate Monitor



T202 TRACERCO

Radiation Dose Rate Monitor Is Designed For Intrinsic Safety And Reliability, Featuring Peak Dose Rate Memory For Key Operational Needs.

Dose Rate Monitor



T402 TRACERCO

A Lightweight, Durable Handheld Monitor That Measures X-Ray, Gamma-Ray Dose Rate, And Peak Exposures. With A Quick Response Time And An Extended Range Up To 100 mSv/h (10 rem/hr).

Personal Electronic Dosimeter & Survey Meter



PED+
TRACERCO

This Instrument Can Be Used As Both A Personal Radiation Dosimeter And A Handheld Dose Rate Survey Meter. It Has Several Additional Features, Such As GPS, Pop-Up, Message Alarms, And The Ability To Connect To Mobile Phones.

Extended Range Personal Electronic Dosimeter



PED-ER TRACERCO

A Rugged, Robust, Lightweight, And Easy-To-Use, Personal Electronic Dosimeter. Effectively Monitoring, Measuring, And Managing Radiation Exposure.

RADIOGRAPHY EQUIPMENT

Bendable Digital Radiography System



HPX-ARCCARESTREAM

The HPX-ARC 1025 PH Digital Solution Is A Revolutionary, Bendable Digital Radiography (DR) Design. It Conforms To Various Objects On A Smooth Bendable Design And Quickly Delivers The High-Resolution Images You Need For Game -Changing Speed And Certainty.

Portable Computed Radiography System



HPX-1 PLUS & HPX-PRO CARESTREAM

The HPX-1 Plus Is Ideal For Lab Environments Where High-Resolution Imaging Is Critical, Featuring Adjustable PMT And Laser Power For Fine-Tuned Image Capture. In Contrast, The HPX-PRO Portable Digital System Is Designed For High-Throughput Imaging In Rugged NDT Environments, Offering A Lightweight And Portable Design That Can Be Set Up In Under 5 Minutes.

Digital Radiography Detectors



HPX-DR NON GLASS CARESTREAM

The HPX-DR 3543 PE Non-Glass Detector Incorporates A Tougher Material Instead Of Glass For Maximum Durability Against The Rigours Of NDT Field Work.

Gamma Radiography Projector



EXERTUS FORTESOSERIX

The Projector has the ability to accept Iridium 192 sources or Selenium 75 sources. This projector incorporates design and safety features that make it flexible, compact & lightweight. The Projector is lighter than most of its competitors. It incorporates an improved source channel, based on a new helicoidal design, which makes maintenance easier.

Close Proximity Gamma Radiography Projector



OSERIX

This projector range is a new generation of close proximity tungsten shielded gamma radiography projector - it has the ability to accept Selenium 75 sources. These Projectors can be used for either normal radiography methods or for radiography where close proximity work is needed.

RADIOGRAPHY EQUIPMENT

Digital X-ray Imaging System



GO-SCAN TELEDYNE ICM

High Definition, User-friendly, Light-Weight, Real-time Feedback And Shock Absorbing! By Focusing On The End-User As The Starting Point Of This Incredible Collaboration, Teledyne Created A High-Tech Digital X-ray Solution Entirely Designed Around You!

Real-Time Portable X-ray Imaging System



C-VIEW
TELEDYNE ICM

Go-Scan C-View Is A Lightweight Ruggedized Real-Time X-Ray Imaging System Specifically Designed For Hand-Held Inspections Such As Corrosion Under Insulation (CUI) Inspection.

Bendable Portable Digital Radiography Detectors



GO-SCAN 1025B / 1043 B TELEDYNE ICM

The Go-Scan 1025B and 1043B feature a pixel pitch of 99 μ m, delivering exceptional image clarity and detail for high-resolution imaging. NDT operators can select between wireless or cable connectivity, tailored to their specific operational needs. These battery-operated detectors are versatile: they accommodate X-ray energy ranges from 40 to 450 kV and are compatible with gamma rays.

Portable X-ray Generators



CPSERIES
TELEDYNE ICM

Teledyne ICM's CPSERIES has been designed with a view to revolutionizing the handling and performances of portable X-Ray sets. CPSERIES generators feature a shutter, a laser pointer, a beryllium window, an aluminum filter, and two integrated diaphragms (customized sizes are available upon request).

Close Proximity Gamma Radiography System



VIDEO

https://www.youtube.com/watch?v=A4GHkcYOE2g

SHORT RANGE ULTRASONIC EQUIPMENT

Digital X-ray Imaging System



QSR1®
GUIDED ULTRASONICS

The QSR1® device incorporates the latest guided wave Quantitative Short Range (QSR) Technology and hardware.

The QSR1® moves axially along the top of the pipe, sending guided waves around its circumference to generate a thickness profile of the area of interest. The system provides a quantitative measure of the average wall, as well as the remaining pipe Wall Thickness Testing.

Digital X-ray Imaging System



QSR® Axial GUIDED ULTRASONICS

Axial QSR® is the extension of the QSR1® concept to cover those cases when we need to scan the pipe from a different direction than QSR1®. The Axial QSR® scanner is a low-profile device designed to fit snugly into tight spaces near pipe supports and in pipe racks. It moves circumferentially around the pipe, sending waves axially along the pipe.

LONG RANGE ULTRASONIC EQUIPEMT



Wavemaker®
GUIDED ULTRASONICS

The Wavemaker® System is the most powerful and reliable long-range guided wave screening equipment in the market. An efficient solution for many inspection challenges.

KEY APPLICATIONS

- ► In-service inspections
- ► Difficult-to-access piping
- ► Inspection under Insulation (CUI)
- ► High-Temperature Piping Inspection
- ►Buried or Road-Crossing Pipe Inspection





ULTRASONIC TESTING EQUIPMENT

Phased Array Ultrasonic Flaw Detector



VEO 3
SONATEST

Retaining The Best Features Of The Established Veo Line, The New Veo3 Now Offers A PCAP Touch Interface, User Templates, And More Importantly, Live TFM.

Digital Ultrasonic Flaw Detector



WAVE SONATEST

Introducing WAVE By Sonatest. It Integrates The Latest Technologies Available To Create A Revolution In The Ultrasonic Non-Destructive Testing Equipment Market.

Conventional Ultrasonic Flaw Detector



D50/D70 SONATEST

The Sitescan D-50/D-70 Offers The End User An Entry Level Broadband Flaw Detector In The Popular And Portable Casing Of The Established D-Series.

Intrinsically Safe Ultrasonic Thickness Gauge



1-EX CYGNUS

Designed For Taking Reliable
Thickness Measurements In
Zone 0 Explosive Atmospheres And
Boasting Advanced Data Logging And
Manual Measurement Mode. The
Cygnus 1 Ex Features 3 Measuring
Modes For Through-Coat
Measurements And Various Materials,
Including Heavily Corroded Metals.

Circumferential & Longitudinal Weld Scanner

MAGMAN PHOENIX ISL

VIDEO

ACOUSTIC EMISSION TESTING

VALVE SENSE

Mobile Acoustic Emission Valve Leak Detection System

- A smart and mobile inspection system for leak detection in valves.
- Inspect valves while process is in operation.
- Automated results immediately on site.
- All inspection data is structurally stored in a platform.
- The software guides you step-by-step on where to measure on the valve, ensuring accurate data collection.
- Advanced algorithms instantly determine if a valve is leaking and utilize Al models to estimate leak size.
- Generate customized reports instantly, aiding in maintenance decisions and action plans.





SORAMA CAM iV64s

Handheld Acoustic Camera that Detects, localizes, and visualizes both audible and ultrasonic leaks.

Gas and air leaks can disrupt operations, waste resources, and compromise safety, but detecting them can be challenging without the right tools. The Sorama CAM iV64s acoustic camera tackles this problem head-on with real-time ultrasonic leak detection.

- A simple interface and automatic settings make it intuitive.
- Its compact design allows quick, efficient movement between tasks.
- Visualize sound as heatmaps, quickly identifying issues and act.
- Accurate leak inspection despite the weather.

HARDNESS TESTING EQUIPMENT

Ultrasonic Contact Impedance Hardness Tester



EQUOTIP 550 UCI PROCEQ

Unmatched versatility owed to HV1, HV5, and HV10 test loads in a single probe. This instrument is Patent-pending adjustable test load for higher accuracy on a wide range of applications.

Portable Leeb



EQUOTIP PICCOLO 2 PROCEQ

Fully integrated and handy Leeb D/DL hardness tester with a compact and robust housing. Ideally suited for quick on-site hardness tests. Compact housing and automatic angle correction allow flexible use and can be automated (Piccolo 2 only).

Hardness Tester



Leeb Rebound Hardness Tester



EQUOTIP 550 LEEB

Comes with the most complete probe portfolio.

Wireless Ultrasonic Contact Impedance Hardness Tester



EQUOTIP LIVE UCI PROCEQ

Ultra-portable UCI probe with cloud connectivity built into modern IoT ecosystem with enabled data back-up, instant evaluation, and data sharing. Access your data from anywhere, anytime.

Portable Rockwell Hardness Tester



PROCEQ

The only portable measurement method boasts no minimal thickness limitation, ideal for thin metal sheets and various materials, offering reliable, accurate, and standardized results at a faster pace than stationary

EQUOTIP 550 ROCKWELL

Rockwell hardness testers.





EQUOTIP 550 (Platform Only)

conversion tables





ELECTROMAGNETIC EQUIPMENT



INTRON PLUS INTROS

MFL FLAW DETECTOR FOR STEEL WIRE ROPES

The INTROS system offers several key features that make it highly effective for inspection tasks. It is fully compliant with ISO, IMCA, EN, and ASTM standards, ensuring reliability and global acceptance. With multiple data channels, including LMA and LF, it supports comprehensive data acquisition.

KEY APPLICATIONS

- Wire rope inspection (diameters from 6 mm to 175 mm)
- High-speed rope monitoring (up to 4 m/s) for elevators, cranes, cable cars, etc.
- LMA detection for wear and corrosion in bridges, ropeways, and suspension systems
- Wire break detection in mining shafts, construction hoists, and offshore rigs
- Operation in harsh environments (IP65/67) such as marine, industrial, and underground sites

Magnetic Flux Leakage Tank Floor Scanner



TRUFLUX
BAUGH & WEEDON

A Groundbreaking Magnetic Flux Leakage (MFL) Tank Floor Plate Inspection System That Sets A New Standard In User-Centric Design. Combining Cutting-Edge Features With Practical Functionality, The TruFlux Offers An Unparalleled Level Of Sophistication And Ease Of Use.

Pulsed Eddy Current Testing System



PECTMAXWELL

Ideal For Measuring Steel Thickness Without Having To Remove The Lagging, Coating, Deposits Or Marine Growth. Easy To Use, Robust, Reliable, And Ideal For Inspections On-Site.

YOKES

Permanent Magnetic Yokes



PM2000/2004 GAMMATEC

The PM2000 Has A Fixed Handle With Articulating Legs While The PM2004 Has Fixed Legs With Interlinking Cable. Both Are Designed To Make It Easy To Work On Difficult Shapes.

Electromagnetic AC Yoke



MY-2 GAMMATEC

A Low Cost, Portable Instrument Which Provides Fast And Accurate Defect Detection In Ferrous Metals.

ELECTROMAGNETIC EQUIPMENT

Alternating Current Field Measurement Flaw Detector



ACE ETHER NDE

ACE, Provides The End-User All The Functionality And Advantages Of Alternating Current Field Measurement (ACFMT) NDT Inspection Technology In A Lightweight, Rugged Instrument, Available With A Selection Of Standard Probe Designs, Developed And Manufactured In-House At ETher NDE.

Eddy Current Flaw Detector



WELDCHECK 3 ETHER NDE

Ideal And Adaptable Across An Extremely Wide Variety Of Eddy Current Inspection Tasks Due To Its Superior Performance. Including Weld Inspection, Surface Defect Detection, And Low-Frequency Inspection Of Non-Ferrous Material.

Eddy Current Inspection System



STEELCHECK ETHER NDE

A Battery Operated 3 Channel
(Hall Sensor And 2 Coil) Tube
Inspection Unit For Carbon Steel
(Ferromagnetic Tubes) Using
Magnetic Flux Leakage. It Is Unaffected
By External Aluminium Fins And Has
The Capability To Discriminate
Between External And Internal Defects.

Eddy Current Instrumentation



ETI - 300 / ETI - 350 ETHER NDE

Advanced Eddy Current Tube Testing Instrument Designed For Inspecting Non-Ferrous Tubing From The Inner Diameter (ID). These Devices Are Ideal For Demanding Environments, Delivering Outstanding Inspection Results And Reporting Functionality.

Multifunction Eddy Current Flaw Detector



ETHERCHECK ETHER NDE

A Combined Eddy Current And Bond Testing Flaw Detector. It Comes With A Rich Range Of Features Offered By The Best-In-Class Eddy Current Flaw Detector Combined With The Most Widely Used Acoustic Bond Testing Method And Pitch-Catch.

Eddy Current Flaw Detector for Aerospace Applications



AEROCHECK 3 ETHER NDE

Based On Operator Feedback And Embracing The Use Of New Materials, The AeroCheck 3 Delivers To The End-User Enhanced Ruggedness, A Toughened Screen, Improved Connector Access And Performance, Combined With Optional Features Such As An Encoder Wheel.

VISUAL INSPECTION

The Elios 3 RAD Payload is an advanced radiation detection system designed to integrate seamlessly with the Elios 3 drone.

- It provides real-time radiation mapping and measurement capabilities.
- Enabling safe and efficient inspections in hazardous environments.
- Ideal for applications in nuclear facilities, emergency response, and industrial inspections.
- Precision, reliability, and ease of use to enhance operational safety and decision-making.







NEW ACCESSORY THE ELIOS 3 TETHER POWER UNIT WORKS WITH ALL ELIOS 3 PAYLOADS

Real-Time Flammable Gas Detection



FLAMMABLE GAS SENSOR

With This Sensor Mounted On The Elios 3, Operators Can Reliably Detect +14 Flammable Gases (Including Hydrogen), Reducing Risks During Confined-Space Inspections. The Flammable Gas Sensor Requires No Field Calibration, Ensuring Continuous, Fail-Safe Operations In Even The Harshest Industrial Environments

High-Precision 3D Mapping and Surveying



SURVEYING PAYLOAD FLYABILITY

Flyability's Surveying Payload Turns The Elios 3 Into A Flying Mobile Scanner That Can Fit Through Openings As Small As 50x50cm, And Create High-Resolution Scans Beyond The Line Of Sight, Allowing Industry Professionals To Provide Rapid Insights That Are Not Accessible With Traditional Tools Or Other UAV Technologies.

Ultrasonic Thickness Measurement



UT PAYLOAD FLYABILITY

A Comprehensive Solution, Combining A Visual Inspection Payload, An Embedded LiDAR Sensor, And A State-Of-The-Art UT Probe Into A Single Device. This All-In-One Approach Ensures Versatility, Covering A Wide Range Of Inspection Requirements With Unmatched Efficiency.

POST-WELD HEAT TREATMENT

EQUIPMENT

6 Channel Low Voltage Heating Unit With Set Point Control



50 KVA & 65 KVA 6 UNITS

The 50 KVA & 65 KVA heat treatment unit has been robustly constructed to provide power to electrical resistance heaters at 60 volts to 80 volts, suitable for site and shop working.

Hybrid Memory Recorder



DIGITAL RECORDER

AH4000 series is a hybrid recorder which employs bright and clear, easy to view LCD display. Measuring value display is prepared as 1 point display, multi-points simultaneous display and digital display + bar graph display.

Hybrid Memory Recorder



THERMOCOUPLE ATTACHMENT UNIT

The standard unit is operated from a rechargeable battery – several hundred welds can be made before a re-charge becomes necessary using the 110V AC connection to the heat treatment transformer.

CONSUMABLES AND ACCESSORIES



CERAMIC PAD



CHART PAPER



THERMOCOUPLE WIRE TYPE K CABLES



CERAMIC BLANKETS





CAMLOCKS, PINS & SLEEVES | THERMOCOUPLE CONNECTORS & PUTTY

ACCESSORIES AND CONSUMABLES

MAGNETIC PARTICLE



- White Background
- Black Ink
- Fluorescent Ink
- Cleaner
- Powder

DYE PENETRANT



- Penetrants
- Developers
- Cleaner

PHASED ARRAY



- Transducers
- Probe Cables
- Couplants
- Probes

DARKROOM



- Ibdustrial Film
- Processing Chemicals
- Film Cassettes

ISOTOPES



- Ir-192 Sources
- Se-75 Sources
- Co-60 Sources
- Cs-137 Sources

RADIOGRAPHY ACCESSORIES



- Penetrameters
- Land Marker Tapes
- Lead Letters/Numbers
- Film Cassettes
- Lead Intensifying Screens

GET IN TOUCH!

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OUR KEY PARTNERS













































