



GAMMATEC
KEY EQUIPMENT
APRIL '25

**NEW
PARTNERSHIP
ANNOUNCEMENT**

P.3

**JOIN US AT
TECH WEEK
2025**

P.1

**...AND SEE
THE
FUTURE
OF
NDT!**

IT'S BACK

GAMMATEC TECH-WEEK 2025

GammaTec's Tech-Week 2025 is your exclusive chance to explore the latest and greatest innovations in Non-Destructive Testing (NDT). Over three action-packed days, industry leaders and global partners will showcase cutting-edge technologies and solutions, providing an unparalleled opportunity to network, learn, and stay ahead of the curve.

We're bringing together top innovators from around the world, all under one roof, for a truly immersive and interactive experience.

On May 16th, we'll wrap things up with the much-anticipated Gammatec Golf Day! Join us, along with our esteemed partners, for a day of fun, networking, and camaraderie on the greens.



TECH-WEEK MAY 13th – 15th



3 DAY'S EXHIBITION!



SEMINARS!



GOLF DAY!

**CLICK HERE
TO REGISTER**



PARTNERS JOINING THIS EVENT SO FAR!

CarestreamNDT

CHCNAV



dolphitech

ETHER NDE
EDDY CURRENT SOLUTIONS

FLYABILITY

INTRON

nexis

oserix
POWER OF COOPERATION

Phoenix
Inspection Systems Limited

proceq



Sorاما

TELEDYNE ICM
Everywhere you look

Tracerco
Insight through innovation



16 MAY 2025

GOLF DAY

TECH WEEK 25



#TechWeek2025

#GammaTecGolfDay

Don't miss the experience!
Secure your spot today!



Register Now!



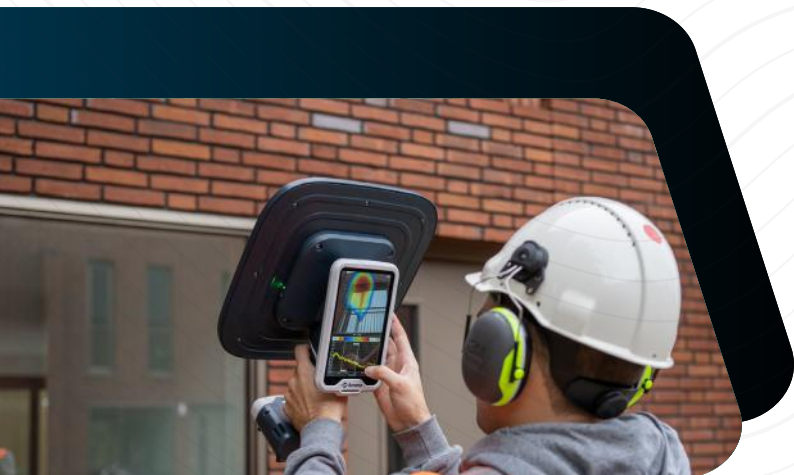


LATEST NEWS

GammaTec NDT Supplies is proud to announce a strategic partnership with Sorama, a global leader in acoustic imaging technology, marking a significant milestone in our commitment to delivering cutting-edge non-destructive testing (NDT) solutions.

This exciting collaboration introduces state-of-the-art sound detection and visualization technologies to the industrial sector, dramatically enhancing our ability to provide advanced safety and diagnostic solutions. By integrating Sorama's innovative acoustic imaging solutions, we are expanding our portfolio to offer unprecedented capabilities in:

- **Gas leak detection**
- **Partial discharge monitoring**
- **Mechanical anomaly inspections**



Sorama

VIDEO

<https://www.youtube.com/watch?v=U-jFw18WP2Yo>

Our upcoming **#GammaTecTechnologyWeek 2025** will showcase the full potential of this partnership. Attendees will have an exclusive opportunity to see Sorama's latest product lineup and experience firsthand the transformative impact of acoustic imaging in NDT.

The partnership demonstrates GammaTec's ongoing commitment to technological advancement and our leadership in the non-destructive testing industry. We are excited about the opportunities this collaboration will create and look forward to sharing more updates in the coming months.

**TEST YOUR NDT
KNOWLEDGE!
SOLVE OUR
CROSSWORD HERE!**

LINK

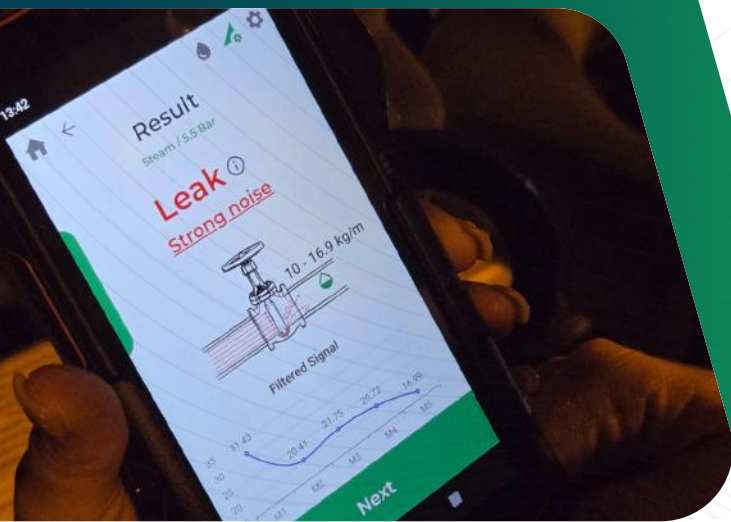


SUCCESSFUL VALVE SENSE DEMO AT POWER STATION!

GammaTec recently **conducted** a **successful demonstration** of **Valve Sense** by **Senseven** at a **leading power station**, proving its **ability** to **transform valve condition monitoring**. This advanced acoustic imaging tool detects leaks, blockages, and irregularities in real time, providing maintenance teams with critical insights to prevent costly failures and minimize downtime.

By harnessing AI-driven diagnostics and intuitive software, Valve Sense simplifies valve testing, making inspections more efficient and data-driven. Our demo results reaffirm its effectiveness in industrial applications, making it a must-have for predictive maintenance.

Discover more!!! Turn to **page 16** to explore **Valve Sense** innovative features.



SENSEVEN

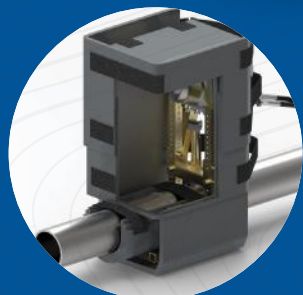


GAMCPR

Close Proximity Radiography

CPR is "The conducting of radiography in close proximity to authorized radiation workers, members of the public or radiation sensitive monitoring devices in such a way as to ensure continuous operations".

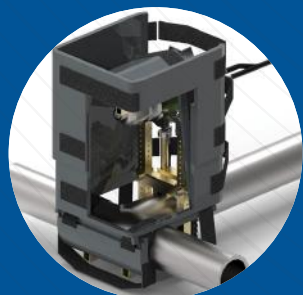
CPR is achieved by utilizing a system of X-ray or Gamma emitting devices incorporating specific collimation with rigid and / or flexible shielding to reduce the Primary Beam and scattered radiation to safe levels at the desired barrier distance.



**ELIMINATE
CONVENTIONAL
RT WINDOWS**



**IMPROVE
PRODUCTIVITY**



**IMPROVE
RADIATION
SAFETY**



**IMPROVE IMAGE
QUALITY**



**CONVENTIONAL
RADIOGRAPHY**

50 Meters boundary with Ir-192 Source



**CLOSE PROXIMITY
RADIOGRAPHY**

<5 Meters boundary with Se-75 Source



COMPLETE MINING SOLUTION



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.

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.



HARDNESS

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

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

THICKNESS

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

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





Just 24.5kg with Jacket



Compact Design



**Automatic Source
Assembly Locking
Mechanism**



**Disconnected
and Locked Only
With Source In
Safe Position**

FORTES

RUGGEDNESS SIMPLIFIED



The Exertus Fortes Projector is a compact and lightweight device that accepts Iridium 192 or Selenium 75 sources.

It features an improved helicoidal source channel, making maintenance easier and allowing smoother source movement. This enhances both operator ease and overall safety.



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.



FILM

VS

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.



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 μ Sv/h at the barrier is 78m. This can be reduced to 1.5m with CPR Shielding.

Image Resolution



Half Life



Steel Penetration

30 mm

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.

Image Resolution



Half Life



Steel Penetration

80 mm

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.

Image Resolution



Half Life



Steel Penetration

200 mm

- 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).



A TEAM WITH
OVER 25 YEARS
OF COMBINED EXPERIENCE



MULTIPLE MANUFACTURING
FACILITIES



SHIPPING TO OVER 60
APPROVED COUNTRIES



KEY EQUIPMENT

RADIATION SAFETY EQUIPMENT



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.



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.



T202
TRACERCO

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



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).



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.

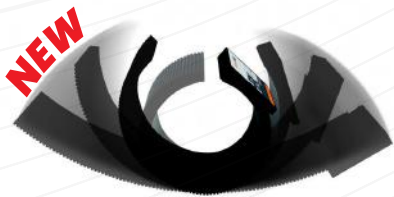


PED-ER
TRACERCO

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



RADIOGRAPHY EQUIPMENT



HPX-ARC
CARESTREAM

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.



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.



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.



EXERTUS FORTES
OSERIX

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.



EXERTUS CIRCA
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



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!



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.

COMING SOON



CP-200B
TELEDYNE ICM

The CP200B Is A Portable X-Ray Generator That's Lightweight (13 Kg/28.6 lbs) And Battery-Operated (Dewalt®). It Has A Wide Output Voltage Range (40-200 kV) And A Tube Current Range (0.1-1.5 mA), With A 100% Duty Cycle At 30°. Its Small Focal Spot Size Makes It Ideal For Digital Radiography, Providing High-Quality Images.



CP SERIES
TELEDYNE ICM

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



GAM CPR
Close Proximity Radiography

VIDEO

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



ULTRASONIC TESTING EQUIPMENT



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.



WAVE
SONATEST

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



D50/D70
SONATEST

The Sitscan 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.



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.



DIVE
CYGNUS

A Robust Wrist-Mountable Gauge For Underwater Ultrasonic Thickness Measurement, Providing A Free Hand. It Offers A Large, Bright Display With A Live A-Scan, Easily Viewable By The Diver And Camera, Even In Poor Visibility.



6+ PRO
CYGNUS

Boasting A Full Range Of Useful Features For Professional Users, Including A-scan; B-scan; Comprehensive Data Logging; 3 Versatile Measuring Modes; A High-Temperature Probe For Measuring Wall Thickness In Areas Of High-Temperature Without Shutdown Or Isolation; Plus Much More.



ACOUSTIC EMISSION TESTING

VALVE SENSE

- 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 AI models to estimate leak size.
- Generate customized reports instantly, aiding in maintenance decisions and action plans.



POST WELD HEAT TREATMENT



KVA UNITS

Robustly Constructed To Provide Power To Electrical Resistance Heaters At 65/85 Volts, Suitable For Site And Shop Working.



CONSUMABLES

- Thermocouple Wire
- Connectors & Sleeves
- Ceramic Fibre Blankets
- Pad Heaters
- Heating Mats



HARDNESS TESTING EQUIPMENT



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.



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).



EQUOTIP 550 LEEB

Comes with the most complete probe portfolio, the broadest material conversion tables including Proceq's research, and the world's widest standard conversion.



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.



EQUOTIP 550 ROCKWELL
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 Rockwell hardness testers.



EQUOTIP 550 (Platform Only)

- Swiss quality, accuracy, and reliability combined with powerful software features
- The World's broadest selection of probes and conversion tables
- A fully rugged casing and long-lasting probe



ELECTROMAGNETIC EQUIPMENT



MY-2

The MY-2 electromagnetic AC yoke is a low cost, portable instrument which provides fast and accurate defect detection in ferrous metals. The yoke features a dual coil which induces a powerful magnetic field providing maximum lifting power and flux density without uncomfortable heating. The adjustable poles are ideal for inspecting components of different geometry, welds, castings and onsite inspection repairs, especially where there is limited access. The chemical and impact resistant body ensures ruggedness and has been designed with operator comfort in mind.

KEY FEATURES

- Powerful AC magnetic field
- Lightweight
- Dual length articulating legs
- Ergonomic comfort-grip handle
- Rugged & Reliable
- Water-resistant
- Replaceable micro switch



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.



PECT
MAXWELL

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



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.



MY-2
GAMMATEC

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



ELECTROMAGNETIC EQUIPMENT

NEW

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.



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.



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.



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.



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.

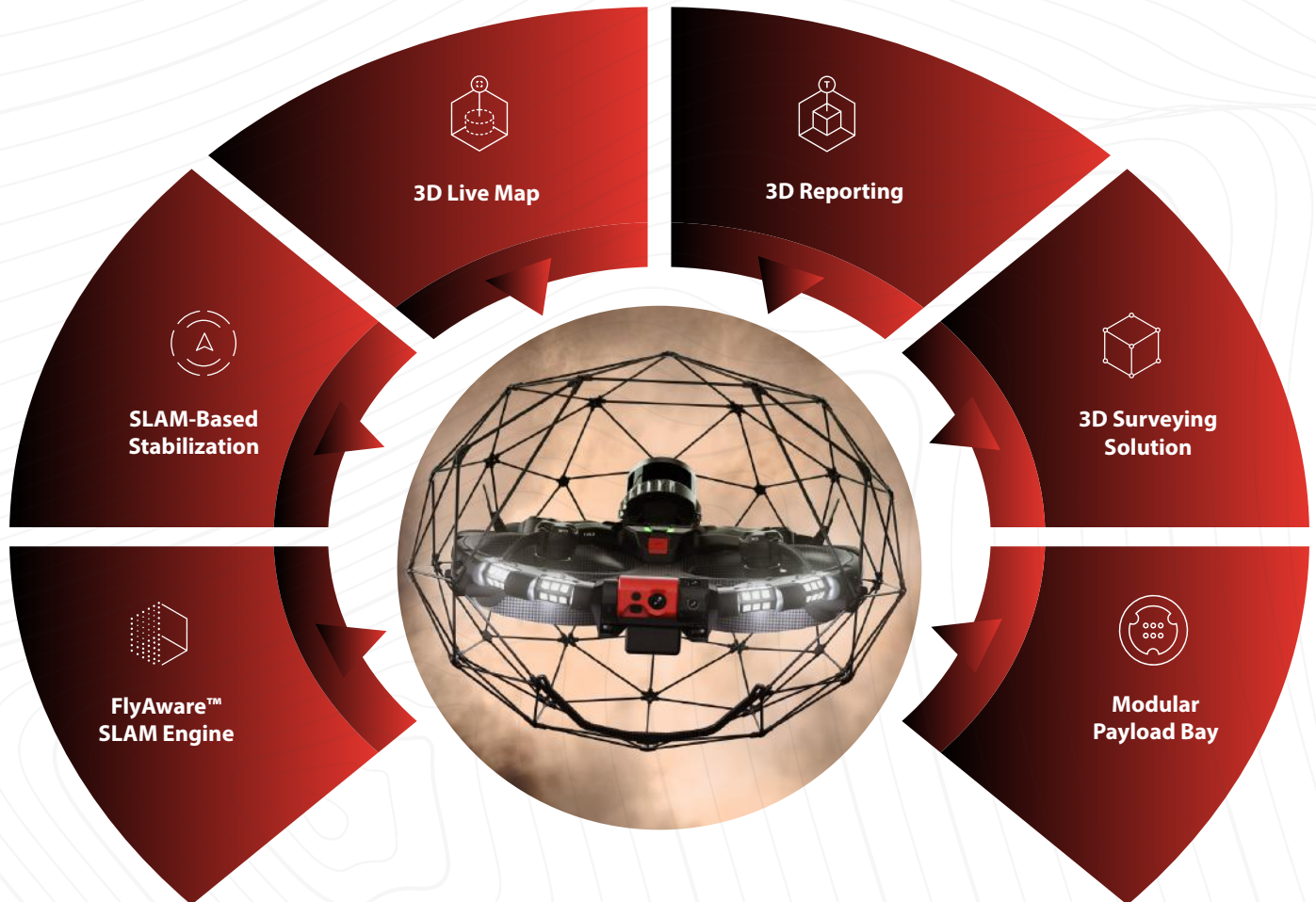


AEROCHECK 3
ETHER NDE

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



FLAMMABLE GAS SENSOR
FLYABILITY

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.



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.



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.



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



- Industrial 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!

HEAD OFFICE SOUTH AFRICA

Vision 21 Industrial Park,
Steel Road, Peacehaven,
Vereeniging.
P.O. Box 264786,
Three Rivers, 1939.

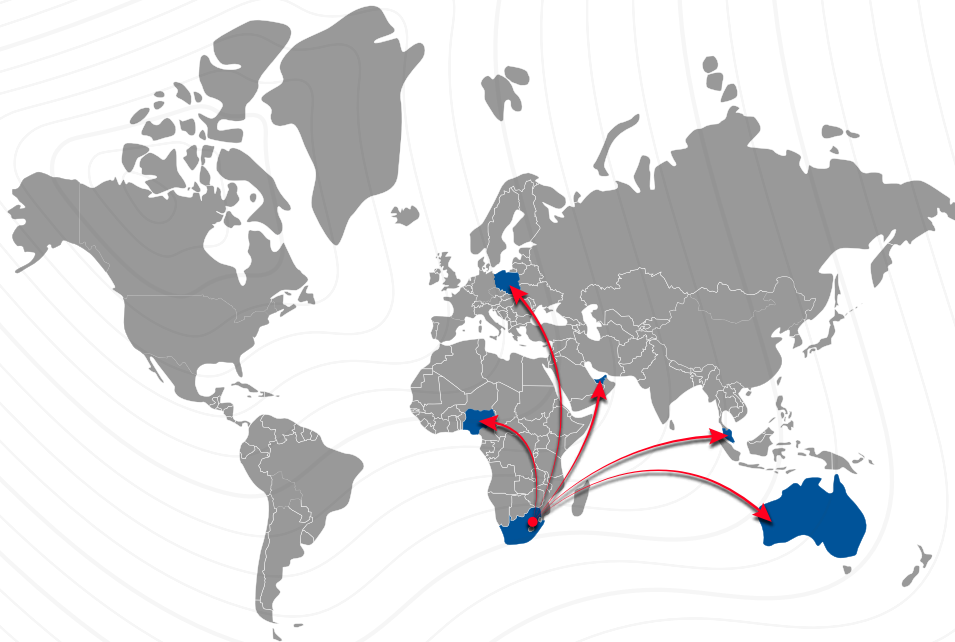
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OUR KEY PARTNERS

CarestreamNDT

BAUGH & WEEDON
NDE

BASF
We create chemistry

Chemetall
expect more

CYGNUS
INSTRUMENTS

ETHER NDE
EDDY CURRENT SOLUTIONS

FLYABILITY

MAXWELL
ndt

NTP
Actively enhancing life

oserix
PROFESSOR DR. GÜNTER OSERIX

Phoenix
Inspection Systems Limited

PHYSICAL
ACOUSTICS

proceq

SCAN

SENSEVEN

Sonatest

Sorama

TELEDYNE ICM
Everywhere you look

Tracerco
Insight through innovation



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