# Nuclear **Medicine**

A range of products and solutions dedicated
to ionizing radiation applications in healthcare.

NUVIATECH
HEALTHCARE

*Picture above-Centre Hospitalier de Condrieu · Construction: VINCI ·*
*Laboratory equipment: NUVIA*

*Supporting your energy*

# NUVIATech Healthcare, for a **safe and accurate nuclear measurement practice**

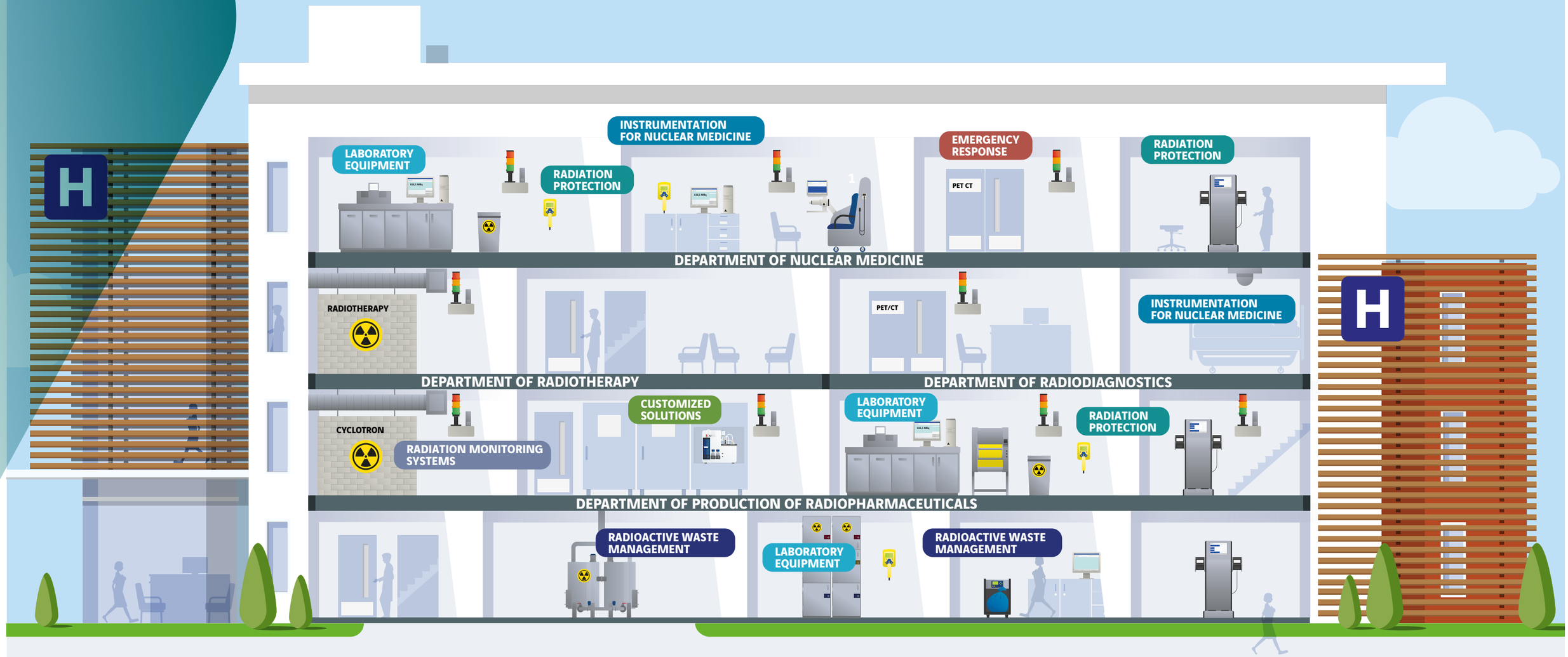
NUVIATech Healthcare is the NUVIA brand dedicated to nuclear products, systems and projects for the medical industry. Our mission is to support nuclear medicine professionals by delivering innovative, high-quality solutions that ensure safety, accuracy and regulatory compliance, while addressing both standard applications and complex, customer-specific projects.



# Our **key values**

- **Drawing on decades of experience inherited from S.E.A. GmbH and MED Nuklear-Medizintechnik Dresden GmbH in Germany and ENVINET in Czech Republic and strengthened by NUVIA's extensive expertise in highly regulated nuclear environments, NUVIATech Healthcare offers a comprehensive portfolio of reliable and customizable instruments.**
- **All components are designed and manufactured in our own workshops and are the result of continuous Research and Development efforts. From modelling and system design to manufacturing, qualification and on-site implementation, NUVIATech Healthcare applies exclusive know-how and state-of-the-art technologies to deliver robust and long-lasting solutions.**
- **Beyond equipment supply, NUVIATech Healthcare provides a wide range of services tailored to nuclear healthcare applications, including modelling studies, surveys, simulations, calculations and radiation measurements. Today, NUVIATech Healthcare serves a worldwide market with advanced solutions for radiation protection, dose calibration, radiation monitoring systems, and radioactive waste management.**
- **Leveraging proven expertise in nuclear detection, electronics and software from the general nuclear industry, we continuously innovate to meet the demanding reliability and safety requirements of the healthcare sector.**

# Instruments, systems and solutions **for a wide range of healthcare applications**



# All our products
# Index & summary



A

# NUCLEAR MEDICINE INSTRUMENTATION

For over 60 years, we have been developing and assembling high-quality nuclear medicine equipment, making us one of the most experienced manufacturers in this field. Built on decades of expertise and continuous collaboration with our customers, our measuring systems are modern, practical, and designed with the user in mind.

Dose Calibrator

# NuMED x40

Find out more

The NuMED x40 is used to determine the activity of radiopharmaceuticals in vials, syringes, ampoules or capsules and in doses for pharma production, quality control or patient application. The NuMED x40 is an MDR-conform Medical Device and the successor of our well-known ISOMED 2010, using the proven NUVIA measuring chamber.

## ADVANTAGES

- Precise activity determination of radioactive isotopes, which are used in nuclear medicine for diagnostics and therapy
- Pre-set for more than 30 nuclides, including some alpha and beta emitting radionuclides (nuclide database is extendable)
- Measurement of all radionuclides used in PET production and PET applications
- Integrated quality control according to DIN 6855-11 (IEC 61948-4) with possibility of data storage, protocol printout and schedule review.
- Testing menu for molybdenum breakthrough according to DIN 6854.
- Protocols meet the requirements of the medical authorities to provide evidence of the quality checks performed.

## OPTIONS/ACCESSORIES

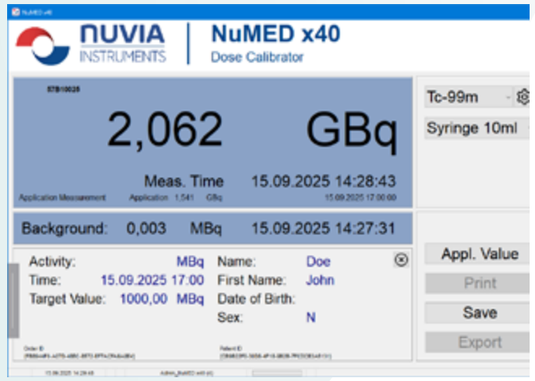
- All-in-1 PC & further variants available.
- Audit trail & log file to record all events.
- Additional shielding.
- Test source Cs-137.
- Label printer and protocol printer.
- Molybdenum kit.
- Y-90 pSet.
- Original sample holder and manipulator with ergonomic grip shape for one-handed operations and hand dose reduction (image below).

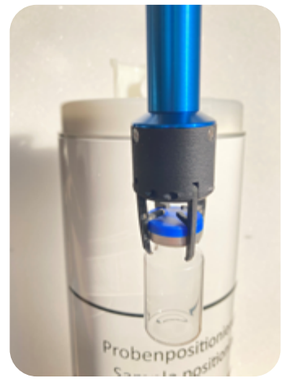
## APPLICATION

Nuclear Medicine:

- Activity determination.
- Dispensing.
- Syringe filling.

Research and development
Production of radiopharmaceuticals.



Well Counter

# ISOMED 2100

Find out more

The ISOMED 2100 is a nuclear medicine instrument for nuclide-related measurement of gamma-emitting samples with low activity and small volume. The system uses a highly-sensitive NaI scintillation detector with a central well into which the sample is inserted.

## ADVANTAGES

- Many different nuclides to choose from.
- Fast multichannel analyzer and highly-sensitive NaI scintillation detector.
- The sample is almost completely surrounded by the detector material.
- Digital measuring value and energy spectrum displayed as a graph.
- Automatic dead-time and background correction can be activated.
- Quality checks according to IEC 61948-1.
- Measuring values can be saved, exported, printed and displayed in graph form.

## OPTIONS/ACCESSORIES

- Additional shielding.
- Test source Cs-137.
- Printer.

## APPLICATION

- Nuclear Medicine.
- Count rate determination of samples.
- Universal radiation counter.




Thyroid Uptake System

# ISOMED 2162

Find out more

The ISOMED 2162 is used for patient treatment in nuclear medicine, especially in radioiodine therapy. The purpose of the Thyroid Uptake System is to quantify the percentage of radioiodine uptake in the thyroid.

## ADVANTAGES

- Used for thyroid diagnostics and therapy.
- Measurement of count rates, calculation of uptakes, determination of effective half-life and maximum thyroid uptake.
- Calculation of the activity to be administered and of the effective focal dose in therapy.
- Graphical display of the energy spectrum and the uptake curve.
- Automatic dead-time and background correction can be activated.
- Measured values can be saved, exported, printed and displayed in graph form.

## OPTIONS/ACCESSORIES

Wide range of accessories such as collimators, absorbers, shielding, thyroid phantom and test sources.

## APPLICATION

Nuclear Medicine:

- Thyroid uptake measurements.
- Radioiodine Therapy.

Incorporation Counter

# ISOMED 2163

Find out more

The ISOMED 2163 was specially developed for routinely monitoring the medical and technical staff working at radioiodine therapy facilities, known as the ‘incorporation check’.

## ADVANTAGES

- For routine incorporation measurement.
- Calculation of the accumulated dose for a defined period of time.
- Graphical representation of activity history over a calendar year.
- Energy spectrum displayed in graph form.
- I-123, I-125 and I-131 can be measured and evaluated.
- Automatic dead-time and background correction can be activated.
- Quality checks according to IEC 61948-1.
- Measured values can be saved, exported, printed and displayed in graph form.

## OPTIONS/ACCESSORIES

- Probe shielding.
- Stand.
- Incorporation collimator.
- Printer.

## APPLICATION

Nuclear Medicine:

- Incorporation monitoring.



Patient Dose Rate Monitoring System

# PADOS

Find out more

PADOS is a PC-based measuring system for monitoring of patients in radioiodine therapy. Patients can be discharged after application of radioactive substances only if the dose rate does not exceed a specified value. PADOS allows you to periodically determine and record the dose rate when the patient is at rest. Patient exit from controlled areas can also be monitored.

## ADVANTAGES

- Allows optimised occupancy planning of the treatment ward.
- Complete overview with graphic representation of the ward floor plan.
- Free choice of colours for the representation of beds and probes in the ward floor plan and of curve trends in the graphics.
- Calculation of the discharge date.
- As an information system for doctors and nurses it can help reduce staff exposure to radiation.

## OPTIONS/ACCESSORIES

- Control system for entry / exit monitoring.
- Optical / acoustic Alarm for nurse room / corridor.

## APPLICATION

Nuclear Medicine:

- Health physics.
- Monitoring and validation.

B

# LABORATORY EQUIPMENT

NUVIATech Healthcare offers a comprehensive range of laboratory equipment designed to support safe and efficient radiological operations. The portfolio includes tables, drawers, cabinets, support frames, and sinks engineered for durability and reliable performance in controlled environments. It also features a wide selection of radiation shielding products, available in standard configurations as well as fully customised designs to meet specific laboratory requirements. Together, these solutions provide dependable protection and practical functionality for professionals working with radioactive materials.

Customised Laboratory Furniture, Hatches and Other Equipment

# Laboratory Furniture

Find out more

## ADVANTAGES

- Laboratory furniture designed for various fields of application.
- Various types of coating according to specific resistance requirements (acids, organic solvents, radioactive materials, biological hazards).
- Various types of surface materials – organic polymers, resins, stainless steel, laminated plastic / chipboard.
- Colour adjustment according to customer's specific requirements.
- Creation of the plan of the laboratory according to your specific requirements, including measurement instruments.

## APPLICATION

Pharma production:
- Quality checks.

Nuclear Medicine:
- Dose preparation.

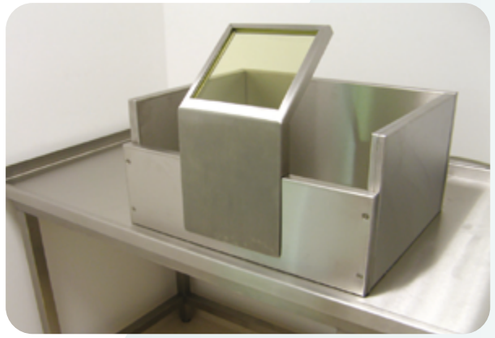
## RELATED PRODUCTS

**Hatch**

**Syringes containing radiopharmaceuticals, prepared in the hot lab, can be passed to the doctor / patient in the treatment room through the shielded radiation protection hatch. Our radiation protection hatch is a stainless steel construction with lead and fireproof material integrated in the door. Dimensions and versions can be adapted to customer-specific requirements.**

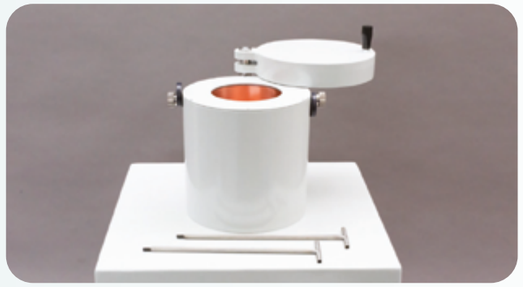
# SHIELDING SOLUTIONS AND ACCESSORIES

## CASTLE
Laboratory lead castle

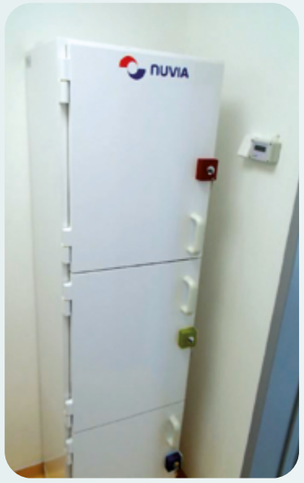


### ADVANTAGES
- Stainless steel housing with integrated lead shielding (sandwich construction).
- Easy to decontaminate.
- Timeless design.
- Customised dimensions.

## LBOX
Lead shielding for gamma spectrometry detectors



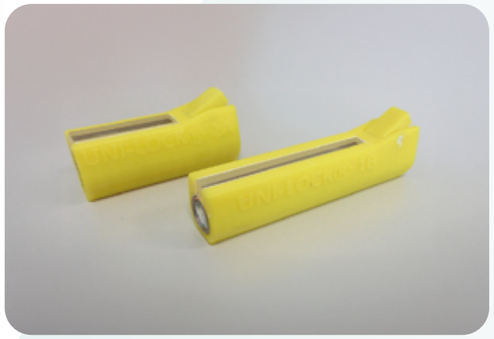
### ADVANTAGES
- High quality, low background shielding for HPGe and scintillation detectors.
- Innovative design allowing easy access to the detector and wiring.
- Modular design simplifying transportation and handling.
- Easy and fast assembly and dismantling.
- 50 or 100 mm low background lead, copper and tin coated shielding.
- Metal housing and robust stand.



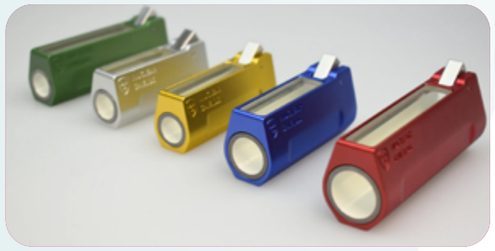

## NuCABINET
Shielded cabinet for radioactive materials

### ADVANTAGES
- Designed for storage of radioactive materials, substances and waste.
- Whole construction made of painted / coated steel.
- Integrated lead shielding.
- Different dimensions, shape, shielding thickness, and layout.

## SYRSHIELD
Tungsten syringe shielding



### ADVANTAGES
- Significant reduction in radiation exposure, especially the partial body dose of the hands.
- Designed for various syringe types with different lock systems (also for PET applications).
- Versions with clip lock, screw or bayonet lock and fitted lead glass window as well as acrylic glass syringe shieldings for β-emitting nuclides.



## CLIP-LOCK SYRINGE SHIELDS
- Clip-lock system for fast handling.
- Reliable radiation protection during syringe use.
- Suitable for frequent syringe changes.
- Lightweight and durable design.

## CONT
Lead containers for radioactive materials

### ADVANTAGES
- Whole construction made of stainless steel.
- Integrated lead shielding (sandwich construction – no visible lead).
- Container shape, size and shielding thickness as produced according to customer-specific requirements.
- Various designs and options according to specific area of use.

LABORATORY EQUIPMENT

# SHIELDING SOLUTIONS AND ACCESSORIES

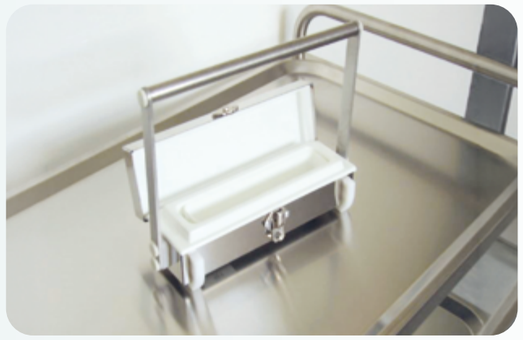
## TROLLEY

Lead-shielded laboratory trolleys

- Manual trolley designed for transportation of PET radiopharmaceuticals.
- Lead shielding: 70 mm.
- With stainless steel coating.
- Inner layout optimized to minimize the staff exposure to radiation.

## SYRCASE

Lead syringe shielding case



- Significant reduction in radiation exposure.
- Designed for various syringe types.
- Versions with plexi glass for β-emitting nuclides.

## NuCASSETTE

Shielded cassette for storing syringes


- The cassette is made of stainless steel on both the outside and inside.
- Inside, there is a plastic insert for storing a given number of syringes.

## NuSHIELD 30 T

Shielded container for placing and transporting vials


- Lockable portable container with handle for shielding the vial.
- Outer and inner casing made of stainless steel.
- Tungsten shielding insert 30 mm thick (including bottom and lid).



## NuSHIELD 03L

Shielded container for storing contaminated waste

- The waste container is suitable for placing a 2.5 l plastic container for contaminated waste (needles, etc.).
- The lid is opened using a hinge.

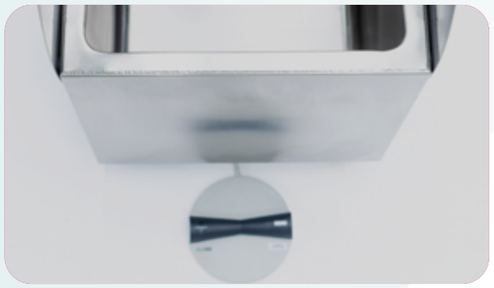
## NuSHIELD B20

Shielded radioactive waste storage bin

- 20 mm lead shielding layer in the walls, bottom and lid of the basket.
- The small lid of the basket opens and closes using a foot-operated mechanism. The large bin lid opens manually by sliding it to the side.

## NuSHIELD 20SKR

Shielded radioactive waste storage bin



- 20 mm lead shielding layer in the walls, bottom and lid of the bin.
- The bin lid opens and closes automatically using a motorized mechanism located at the rear. Opening and closing is done using a foot switch located under the device.
- Opening and closing power supply from the 230 V/50 Hz electrical network.

## NuSHIELD W05

Shielded container for radioactive waste storage


- 5 mm lead shielding layer in the walls, bottom, and lid of the box.
- Both separate lids are hinged upwards using handles. Both lids remain in the set position after opening thanks to a spring system and do not close spontaneously.

# SHIELDING SOLUTIONS AND ACCESSORIES

## NuCARRIER 20

Trolley for transporting radiopharmaceuticals

- The NuCARRIER trolley is used to transport syringes with high-activity radiopharmaceuticals prepared for administration to a patient prior to a positron emission tomography examination.
- A shielded, lockable box with a removable stainless steel insert is located in the lower part of the cart.

## NuTABLE 10

Application table with shielded shaft

- A shielded container with a 10 mm lead shielding layer is built into the top of the table.
- The waste container is suitable for placing a 2.5 l plastic container for contaminated waste (needles, etc.).
- Table load capacity: 60 kg.
- The table is mobile and can be braked.

## NuTABLE 20

Application table with shielded shaft

- In the front of the table there is a vertical lead panel made of stainless steel sheet and 20 mm thick lead filling. The panel reaches a height of 110 cm.

## NuBARRIER 30

Shield with lead visor

- A shielding shield with a lead visor serves as a protective device when handling radioactive substances.
- Tabletop version (can also be supplied with a handling table).

## NuBARRIER 100

Shield with lead visor

- A shielding shield with a lead visor serves as a protective device when handling radioactive substances.
- Mobile version (four breakable castors).

C

# CUSTOMISED SOLUTIONS

NUVIATech Healthcare's Customised Solutions are designed for institutions and companies that require specialized, adaptable technologies to advance their nuclear medicine capabilities. Whether supporting innovative research workflows or enabling safe and efficient radioisotope production, these tailored systems help hospitals and laboratories operate with greater precision and flexibility. Designed for seamless integration into existing environments, these customizable solutions empower teams to innovate with confidence and optimize their laboratory processes.



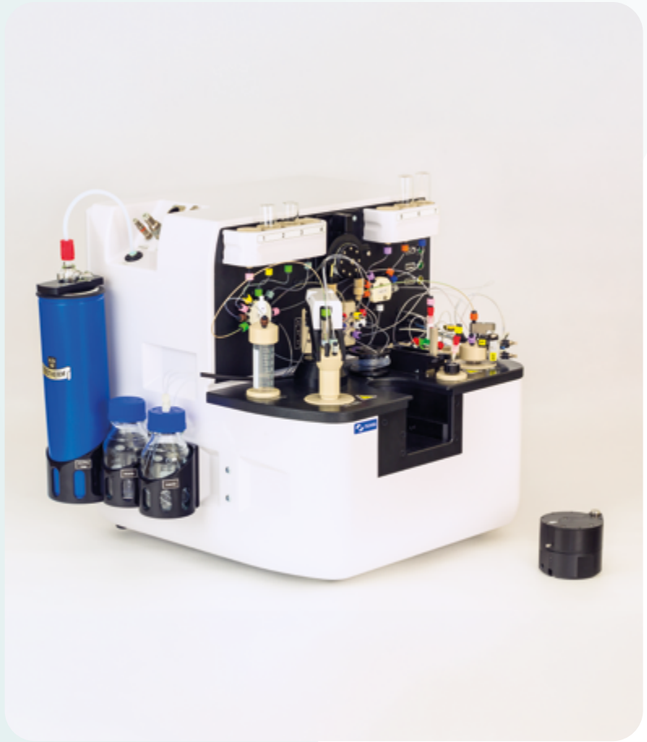
Versatile Platform for Processing Cyclotron Produced Radiometals

# Crab2Rabbit

Find out more

## PRODUCT HIGHLIGHTS

- Two reactors, two selectors, a peristaltic pump, 3/2 way valves, and a separation column.
- Up to four positions for uploading the solvents into the first reactor or to the SPE column for the separation steps.
- Three positions for uploading the solvents to the R2 reactor that may be used for formulation or for simple labelling steps.
- Inbuilt solid phase extraction column for the separation driven by peristaltic pump and solvents.
- Wide range of processable radionuclides such as Cu-61, Cu-64, Ga-68, Zr-89, etc.



## APPLICATION

- Solid target processing unit.
- Automated system for cyclotron-produced radiometals.
- Synthesis.

## ADVANTAGES

- Fully automated system to increase reproducibility and to minimise staff dose intake.
- Separation process based on solid phase extraction (SPE), ending with formulation of the separated radionuclide into the required solvent.
- Easy adjustment of final activity concentration according to stated needs.
- System driven by PLC and I/O cards, communication with PC via Ethernet cable.

## OPTIONS/ACCESSORIES

- External cyclotron target chute enabling hand-free optional loading of irradiated target into the shielding container.

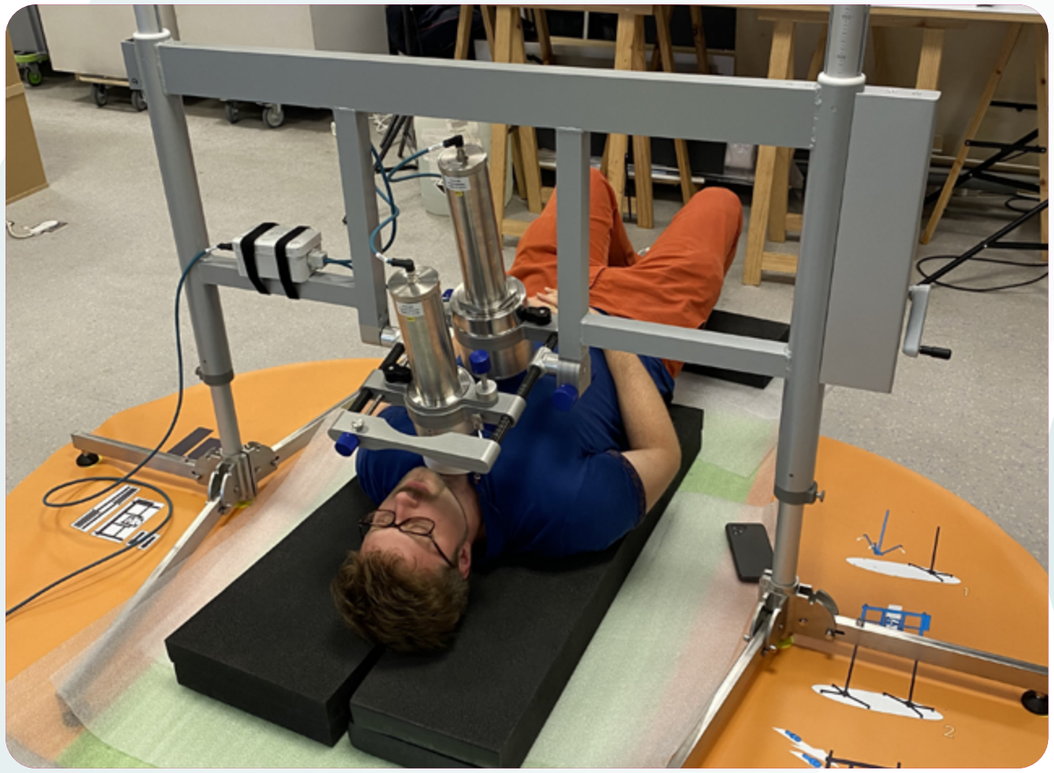
Rapid and Accurate Assessment of Internal Contamination

# Syalma

The SYALMA system, developed by NUVIATech Instruments, is an innovative and fully patented device designed for the rapid and accurate assessment of internal contamination (thyroid and whole body), particularly in emergency situations following a radiological incident.

## ADVANTAGES

- Its simplified design enables easy field deployment, and it offers enhanced mobility. Detection capabilities adapted to all body types. Centralised control for multiple units thanks to NuSoft GAMWIN designed to manage groups of ten systems locally. It is also securely linked to the ASNR database through a dedicated web application. This seamless connection enables real time, remote monitoring of on site measurements for every individual.
- This system strengthens responsiveness and improves the quality of care during incidents, representing a major advancement for emergency response protocols.





Dispensing Line for Rb/Kr Generators and QC Unit

# Dispensing line

## ADVANTAGES

- Integrated System & Full Scope Services.
- Our solution combines a fully integrated suite of high performance modules with a comprehensive service offering that spans the entire lifecycle of your facility.
- Each component works in perfect synergy to ensure efficient, safe, and traceable generator production.

Beyond the equipment itself, we provide a full set of turnkey services, ensuring seamless deployment, regulatory compliance, and long term operational excellence.

## INTEGRATED SYSTEM COMPONENTS

- Automatic dispensing device delivering precise radiochemical handling.
- 30 position dispensing bench for high capacity generator processing.
- Independent Quality Control Unit for rapid and compliant verification.
- Semi hot cell engineered for operational safety and shielding.
- Shielded waste management module ensuring controlled disposal.
- Conveyor system optimising workflow continuity.
- Multi level control system (PLC–PC) for complete hardware & software orchestration.

D

# RADIATION PROTECTION

Nuclear instrumentation plays a critical role in nuclear medicine by continuously monitoring radiation levels and detecting potential contamination, helping to protect personnel, patients, and healthcare facilities. Advanced radiation detection systems enable accurate, real-time measurements that support compliance with safety regulations and ensure that radiation exposure remains within acceptable limits. Solutions provided by NUVIATech Healthcare strengthen radiation protection by providing reliable monitoring, early detection of abnormal radiation levels, and effective contamination control, thereby minimising risk and supporting a safe and high-quality clinical environment.



Hand-Foot-Clothing
Contamination Monitors

# HFC SERIES

Find out more

With more than 25 years of experience and a worldwide clientele, our HFC product line has established itself as one of the most versatile, widely available product lines on the market. Our close cooperation with our customers has resulted in modern, practical and user-friendly instruments.

## ADVANTAGES

- Innovative detector technology based on thin-layer plastic scintillation detectors.
- Gas-free equipment.
- Low operating and maintenance costs.
- Operator-friendly user interface with large-area colour display.
- Ergonomic housing design with stainless-steel cover.

## OPTIONS/ACCESSORIES

- Our HFC models can be upgraded with several options and individually adapted to meet clients' requirements. For example: the number and the positioning of the hand detectors, the size of the foot detectors, the inclusion of a transponder system or an additional head detector.

## APPLICATION

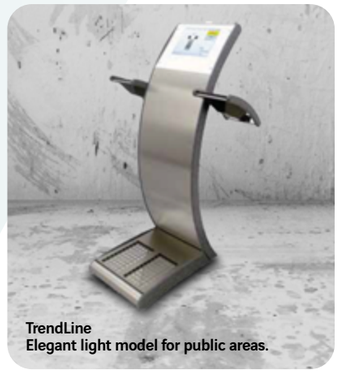
- Radiation protection.
- Surface contamination monitoring.

**BaseLine**
**Standard model.**

**SlimLine**
**Integrated detectors to save space.**

**CrossLine**
**Walk-through monitor.**

**EcoLine**
**Compact and powerful solution.**



**TrendLine**
**Elegant light model for public areas.**

**HeadLine**
**Additional head detectors.**

Hand-Held
Contamination Monitor

# CoMo-170

Find out more

The CoMo series offers the most advanced instruments in the field of surface contamination monitors. The innovative thin-layer plastic scintillation detector technology is completely gas-free and both α and β/γ sensitive. Designed for easy maintenance, users can easily make simple repairs to the instruments such as replacing detector foils themselves.

## ADVANTAGES

- Gas-free device that drives the cost down.
- One-hand instrument, lightweight device.
- User friendly and intuitive to use.
- Large graphic display.
- Variety of optional external detectors add versatility.
- Multi-purpose device for a range of applications.

## OPTIONS/ACCESSORIES

- The CoMo series offers a wide range of options including an integrated Geiger-Müller detector for additional dose rate measurement, a larger 300 $cm^2$ version instead of the standard 170 $cm^2$, and a pure gamma measurement version. The numerous accessories available for all the CoMo versions make the CoMo series a very flexible contamination monitoring system.

## APPLICATION

- Radiation protection.
- Surface contamination monitoring.


**Wall station**

- The wall station allows you to reliably check hands without picking up the monitor. With power supply for charging the CoMo's NiMH-batteries.
- Easy to carry out indoor or outdoor measurements.

**Floor trolleys**

- Floor trolleys for 1 - 3 CoMo systems are available to monitor large floor areas. This makes it easy to carry out indoor or outdoor measurements.

**Stationary Contamination Monitor**

- Single-hand plastic scintillation detector (170 $cm^2$).
- Separate wall-mounted electronics with optional 3-level LED lamp.
- Also available with integrated accupack.

**Accessories**

- Dose rate probes.
- Pancake contamination probe.
- Flat detector.
- Corner detector.

## RELATED PRODUCTS

**HFC (p27)**

**The Hand-Foot-Clothing Contamination Monitor is designed for particular use at workplaces with open radionuclide sources.**

Dose and Dose Rate Monitor

# DolMo

Find out more

The DolMo I with its integrated GM counter tube is specially designed for applications in the low dose rate measurement range of 1 µSv/h up to 100 mSv/h (45 keV - 1.3 MeV). The dose rate is simultaneously displayed with the cumulated dose. The DolMo II is specially designed for applications with a higher dose rate measurement range of 10 µSv/h up to 1 Sv/h (55 keV - 1.3 MeV). The external detectors can be connected to all versions of the DolMo product line.

## ADVANTAGES

- Extensive portfolio of additional detectors for dose rate and contamination measurements.
- Large, graphic display.
- Simultaneous dose and dose rate indication.
- Intuitive menu.
- User-friendly keyboard.
- Torch function.
- User-centred.
- IP 65 (according to DIN EN 60 529).

## OPTIONS/ACCESSORIES

- Telescope.
- Various external detectors.

## APPLICATION

- Radiation protection.


Gamma Ray Imager

# NuVISION

Find out more

The NuVISION gamma camera, though not a diagnostic medical device, can still provide valuable support in the nuclear medicine field. It is used to monitor the flow of radioisotopes immediately after injection, helping to ensure that the tracer moves correctly to the intended area and does not remain at the injection side. Additionally, it assists with contamination checks and the localization of radioactive “hot spots.” The system can also detect and localize activated areas, such as components within cyclotron facilities, and is useful for verifying the effectiveness of radiation shielding.

## ADVANTAGES

- Small and light portable device.
- No cable needed, fully independent and autonomous for a reduced operator dose uptake.
- Real-time imaging.
- Capable of identifying radionuclides.

## APPLICATION

- Injection monitoring.
- Patient discharge.
- Contamination clean up.
- Shielding verification.
- Activated areas.
- Waste characterization.

E

# RADIATION MONITORING SYSTEMS

NUVIATech Healthcare's Radiation Monitoring Systems provide precise, real-time detection to support safe operations in nuclear medicine departments. From area monitors to contamination detection and access control systems, these solutions deliver clear, actionable data exactly where it is needed. Designed for reliability and seamless integration, they enable hospitals to maintain strict radiological safety standards while minimising disruption to clinical workflows.

Alarm Monitor

# ALMO

Find out more

The ALMO system is designed for permanent radiation monitoring on nuclear sites. One, three or six detectors can be connected to a single system, providing great flexibility. The stand-alone systems can be linked to a superior PC-system for central monitoring and documentation.

## ADVANTAGES

- Easy to use thanks to the microprocessor-based control unit.
- Various surface-mounted and built-in housing versions.
- Additional software for continuous dose rate analysis, including data storage.
- 3 different models available with 1, 3 or 6 detector inputs.

## OPTIONS/ACCESSORIES

- Wide range of GM- and NaI-detectors.
- External display and software

## APPLICATION

- Workplace and facility monitoring, e.g. in hot cells and laboratories.
- System monitoring, e.g. in isotope production.
- Ward and/or patient monitoring in nuclear medicine/radiotherapy, e.g. in radioiodine therapy or afterloading.
- Exhaust air monitoring.
- Radiation protection.


## RELATED PRODUCTS

**DoIMo**

**DoIMo is a dose and dose rate monitor.**

Intelligent Gamma Probes

# NUDET EGM, ENA

Find out more

We offer various types of intelligent gamma probes  GM, plastic and NaI(Tl) gamma measurement probes. The instruments are monitoring dose rate, cps, spectrometric measurement (NaI(Tl) only). They can be plugged with USB, RS232, RS485, Ethernet LAN  connectivity. These intelligent gamma probes work both indoor  and outdoor application.

## ADVANTAGES

- High measurement accuracy.
- Modular system allowing up to three GM tubes for wide measurement range.
- Ability to detect a wide range of dose rates.
- Rugged construction, airtight housing and waterproof connectors.
- Open and easy-to-use data transfer protocol.
- MODBUS support.
- Automated and optimized switching between detector tubes.
- WiFi Connectivity.

## OPTIONS/ACCESSORIES

- Data Logger.
- Central software — environmental & workplace RMS.
- Customization.

## APPLICATION

- Radiation and dose rate monitoring.

F

# RADIOACTIVE WASTE MANAGEMENT

NUVIATech Healthcare's Radioactive Waste Management solutions support the safe and compliant handling of radioactive materials throughout their entire lifecycle. From decay storage to liquid waste treatment and sealed source containment, these systems provide hospitals with reliable tools to manage radioactive waste efficiently while meeting strict regulatory requirements. Designed for durability and ease of operation, they help facilities maintain a clean, controlled, and fully compliant radiological environment.

## Central System for the Collection, Storage and Release of Liquid Radioactive Waste

# LIRW

Find out more

The system consists of several stainless steel tanks connected to a facility sewerage system, where radionuclides may occur. The system is universal and can be implemented in any kind of facility. The following measurements are available: continuous liquid waste level measurement, maximum and minimum liquid waste level measurement, radioactivity level in tanks measurement (liquid waste volume radioactivity monitor).

### ADVANTAGES

- Number of tanks, volume can be tailor-made according to the project specification.
- Hardware and software enabling management of the LIRW are the part of the system, which is fully automatic; however, the manual control is available.
- Online control & measurement of the waste
- Controlled release to the sewerage.

### OPTIONS/ACCESSORIES

- The system can be controlled via a control panel or a software allowing remote monitoring of the technology and the radiation situation. The control system consists of PLC AMIT and a technological computer with touchscreen and software.

### APPLICATION

- Rad waste monitoring Storage and release.

### RELATED PRODUCTS

**ISOMED 2154 (on request) & ISOMED 2151 (p40)**

**ISOMED 2154 and ISOMED 2151 are wastewater counters used to measure the activity of radionuclides in wastewater from nuclear medicine and radiotherapy treatment facilities.**

Wastewater Counter

# ISOMED 2151

Find out more

The ISOMED 2151 is used to measure the activity of radionuclides in wastewater from nuclear medicine facilities and radioiodine therapy stations. The wastewater is collected in decay tanks. Samples from these tanks are filled into special measuring beakers and measured with the wastewater counter. The limit value prescribed by the authorities can be reliably demonstrated.

## ADVANTAGES

- Activity determination of F-18, Sr-89, In-111, I-125, I-131, I-131 P (cartridge), Tc-99m or Tl-201.
- Graphical display of the energy spectrum.
- Automatic dead time and background correction can be activated.
- Nuclide-specific isotope windows.
- Measured values can be assigned to the corresponding tanks and archived with the energy spectra.
- Integrated quality controls.
- Measured values can be saved, exported, printed and graphically displayed.

## OPTIONS/ACCESSORIES

- Test source Cs-137.
- Marinelli beaker.
- Printer.

## APPLICATION

- Wastewater monitoring.
- Quality control.


## RELATED PRODUCTS

**LIRW (p37)**

**Central system for the collection, storage and release of liquid radioactive waste.**



Release Counter

# FMS

Find out more

Our FMS release counters are used to measure, administer and release nuclear waste from hospitals. Our product line includes measuring chambers of various size, combined with 4, 6, 8 or 10 high-sensitive NaI-scintillation detectors for γ-measurement. The chamber is shielded by 5 mm lead.

## ADVANTAGES

- Cost-effective alternative to disposal of nuclear waste.
- An integrated balance takes into account the measuring object's weight and makes it possible to display the measuring values in Bq/g.
- PC-based WIN software.
- Network interface.
- Complete management of nuclear waste and storage locations.
- Database for waste containers incl. storage locations.

## OPTIONS/ACCESSORIES

- Label and protocol printer.
- Barcode scanner.

## APPLICATION

- Measurement and administration of nuclear-medical waste.
- Optimisation of waste storage.

## RELATED PRODUCTS

**WCM - Waste Control Monitor (p42)**

**With the waste control monitor you can make sure that during waste disposal, radioactive and conventional waste are kept separate.**

Waste Control Monitor

# WCM

Find out more

The waste control monitor is designed for simple and safe monitoring of waste for radioactive contamination or components. It is used in nuclear medicine, for example, in radioiodine therapy wards, to separate contaminated radioactive waste from conventional waste during the daily disposal of waste.

## ADVANTAGES

- Automatic start of measurement via light barrier.
- Housing open at the front to allow easy loading.
- Designed for waste bags.
- Simple and safe handling for routine operation by cleaning staff.
- End of measurement signaled by three beeps.
- Red-yellow-green signaling of the measurement result on the display and LED lights on the membrane keypad.
- External traffic light connectable.
- Automatic calculation of alarm threshold depending on the background.

## OPTIONS/ACCESSORIES

- Label printer can be connected for printing the measurement results on labels.

## APPLICATION

- Fast and easy radiation control of waste bags.
- Waste management.

Safety and Quality Monitoring of Medical Waste Collection and Transport Routes

# NuClearance

Find out more

Improper handling or misclassification of outgoing radioactive waste can pose significant risks to public health and the environment. NuClearance products ensure that non radioactive hospital waste is verified to be free of radioactive materials.

## ADVANTAGES

- A scalable solution for monitoring radioactive waste in hospitals of all sizes and budgets.
- Easy and continuous monitoring of waste containers into and out of waste collection areas with user friendly software.

## OPTIONS/ACCESSORIES

- A high-performance NuClearance solution compliant with the IEC 62022:2004 standard.
- A cost-effective NuClearance Lite solution for smaller sites.
- NuSearch Kit - The combination of the easy-to-use handheld device DoIMo and a highly sensitive probe allows the user to confirm the presence of radioactivity and trigger the adequate response.

## APPLICATION

- Radioactive waste management.

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# EMERGENCY RESPONSE

Hospitals play a pivotal role in emergency response during nuclear incidents, quickly mobilising medical, technical, and safety resources to triage and treat individuals exposed to radiation. They manage contamination through specialized decontamination procedures and continuously monitor both patients and staff for radiation exposure. NUVIATech Healthcare's Emergency Solutions are purpose-built for rapid deployment in high-stakes environments, offering a comprehensive portfolio of instruments specifically designed to meet the unique challenges of nuclear emergencies.

Find out more

# SCINTO

A mobile survey meter with an NaI scintillation detector for easy mobile monitoring of people and objects.

## ADVANTAGES

- Low 25 keV detection threshold
- Count and dose rate (Cs-137) available.
- Fast deployment (under 4 s).
- External probes and telescopic versions optionally available.
- Special version SCINTO-Thyroid available.

## APPLICATION

- Identifying the precise location of radioactive material.

# CoMo

Find out more

An industry recognised range of surface contamination monitors used for various applications.

## ADVANTAGES

- Gas-free, competitively priced device.
- One-hand instrument with intuitive use, variety of optional external detectors add to its versatility.

## APPLICATION

- An easy to use hand-held device for manual screening of both α and β/γ contamination.


# Portal Dp

Find out more

Portal Dp is a mobile, modular radiation monitoring system designed for the radiological screening of individuals following a nuclear event. Its lightweight construction and rapid assembly enable immediate deployment. The system combines high detection sensitivity with operational flexibility and a robust design that supports easy decontamination.

## ADVANTAGES

- Quick operational deployment in the field.
- Modular architecture adaptable to different uses and detector configurations.
- Easy and complete decontamination.
- Option to add an additional neutron detector.

## APPLICATION

- Immediate support in crisis situations.
- Fast screening for emergency responders.

# ECMO

Find out more

A system solution for civil protection and disaster assistance in emergency centers.

## ADVANTAGES

- The ECMO device is easily and quickly set up and running in a few minutes.
- The measuring technology is largely maintenance-free and can be packed, stored and transported in a box.

## APPLICATION

- Detector array of mobile contamination monitors type CoMo-170 ZS for easy and safe contamination monitoring.

# NuVISION

Find out more

A compact portable spectrometric gamma camera based on CZT semiconducting detectors and coded aperture and Compton imaging capabilities.

## ADVANTAGES

- Light-weight and user-friendly device.
- Real-time imaging.
- Combines sharp image quality and 360° field of view.

## APPLICATION

- Portable and sensitive system that enables not only to detect but also to measure a dose rate, localize the source and identify the radioisotope in a real-time speed.

# SOFTWARE SOLUTIONS

NUVIATech Healthcare's Software Solutions provide clear and reliable digital support for nuclear medicine operations. These tools help teams manage radiation safety data, control equipment, and monitor key operational processes with accuracy and transparency. Designed for seamless integration and practical daily use, they give hospitals the information they need to maintain safety, consistency, and full traceability across their radiological activities.

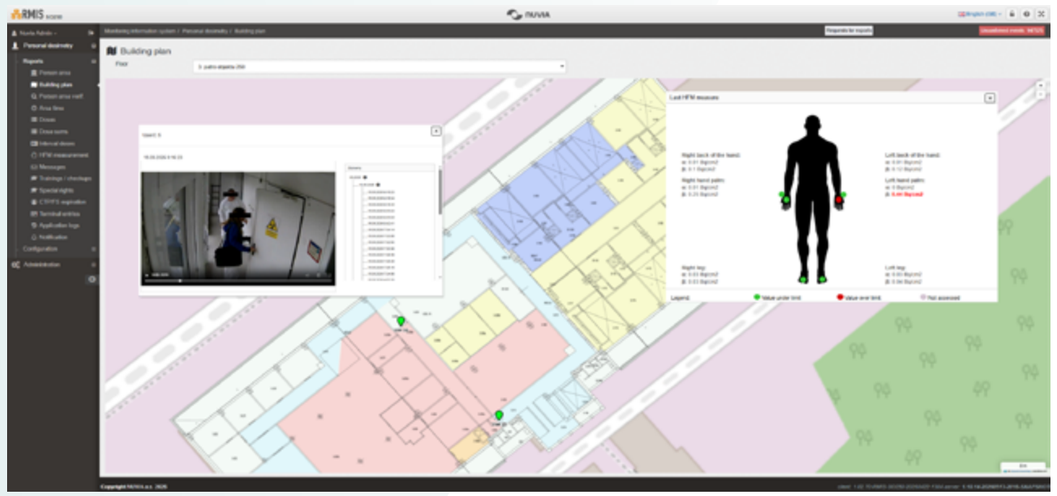
# NuSOFT RMIS

Find out more

An efficient tool focused on the entrance control of the employees working in the facility where the ionizing radiation is used and/or the access to the controlled area is required. The system evaluates the entrance permissions based on personal dosimetry and additional pre-set rules.

## ADVANTAGES

- Evaluates the controlled area access based on personal dosimetry, overall radiation situation, required training, medical examination, etc.
- Complies with regulatory requirements.
- Improves the personnel radiation protection, contributes to health and safety standards.
- Allows the connection of any contamination and radiation monitoring device with digital interface.



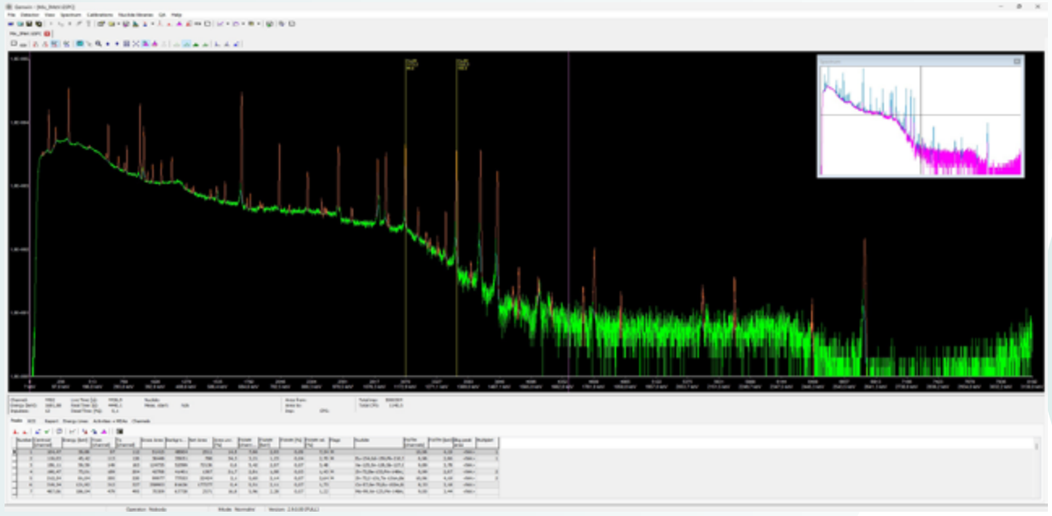
# NuSOFT GAMWIN

Find out more

Software designed for comprehensive spectrum analysis and the assessment of the spectrometric data obtained from semiconductor or scintillation detectors. It supports variety of spectrum files format and includes user friendly tools for simple setup and calibration. Wide variety of spectral correction methods, comprehensive QA, reporting tools and fully managed nuclide libraries available in one package.

## ADVANTAGES

· Variety of data formats available.
· Multi-Language support.
· Wide variety of spectral correction methods.
· Simple setup and calibration.
· Comprehensive QA tools.
· Flexible reporting tool.
· Scripting language included.
· Application Programming Interface & batch processing.
· Various peak search methods.
· Support of multichannel analyzers of various manufacturers.
· Drag & Drop features.





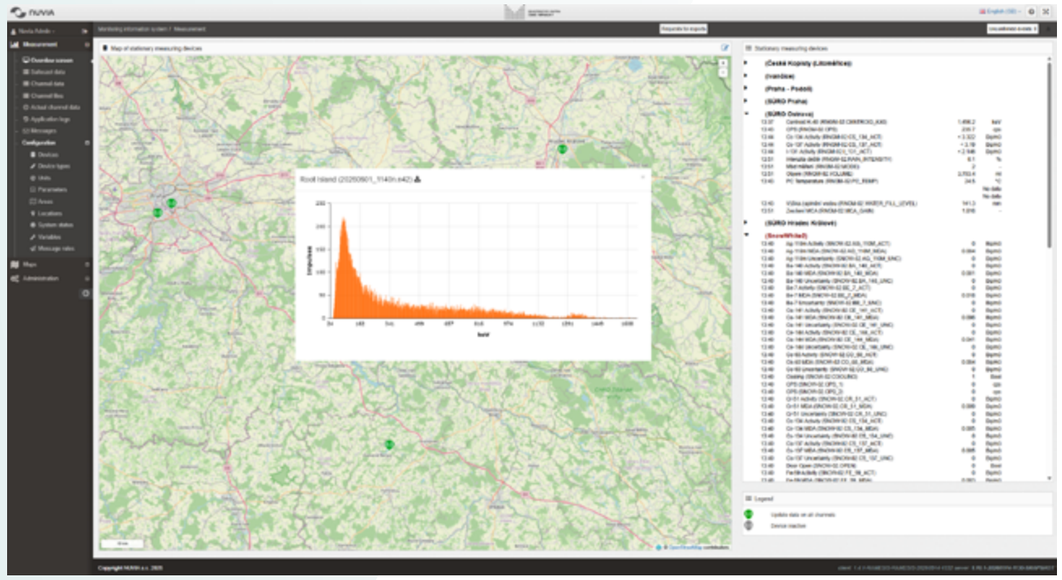
# NuSOFT RADIS

Find out more

A server oriented, flexible ionizing radiation monitoring network software solution. Data collection can be adapted according to each client's requirements - from single facility monitoring to a large national network. The data is centralised, referenced and displayed in a geographic information system (GIS) for analysis.

## ADVANTAGES

· Stores data from a variety of detectors including meteorological, air pollution as well as radiation.
· Dose rate and dose rate equivalent measurements available.
· Improves the environment and personnel radiation protection.
· Allows the connection of any radiation monitoring device.
· All connected devices can be viewed on a single screen.
· Real-time tracking of critical data with user-defined alarm levels.



NUVIATECH
HEALTHCARE


# **NUVIATech** Healthcare

The smart choice for radiation measurement in nuclear medicine.

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