# metorX
# Gamma Analyzer

Compact Gamma Spectrometry System for streamed radionuclide quantification of solid, liquid and wipe test samples

metorX

Measurement Tools RadiationX

# metorX Gamma Analyzer
## Features & Benefits

The Gamma Analyzer has been developed for the following applications:
- wipe testing
- portable applications with laptop or tablet
- routine counting lab measurements
- free release measurements
- NORM screening measurements

Standard Wipe test application resulting in Bq or Bq /cm2 for a radionuclide is stored with location and sample points into application database

Streamed sample analysis make the final instrument objective easy to achieve; maintaining the full capabilities of full-featured gamma-ray spectrometric system

Optional quantification for a variety of sample geometries ranging from < 1 mL to 250 mL, solid and liquid samples. Limited to one specific user defined geometry

Database recordings of measerements including sample ID, energy spectra and operator and user management.

Si-arrays as photomultiplier results in a portable compact instrument.

No recover time is needed after exposing detector to high activities

Stable energy spectrum with dynamic cancelation of peak shift caused by temperature changes.

Low weight makes it the instrument of choice for field assays

Low background measurements using 30 mm of lead the weight is for the well detector design less then 20 KG.

Quality assurance by fully automatic instrument checks assuring accurate operation

**Gamma Analyzer Model LV for larger volumes**

**Gamma Analyzer Model SV with well detector for standard wipe assay and optional small liquid and solid samples**

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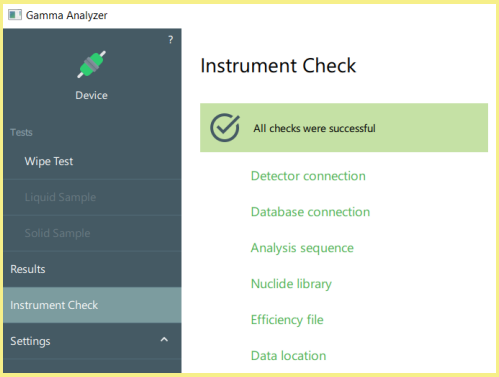
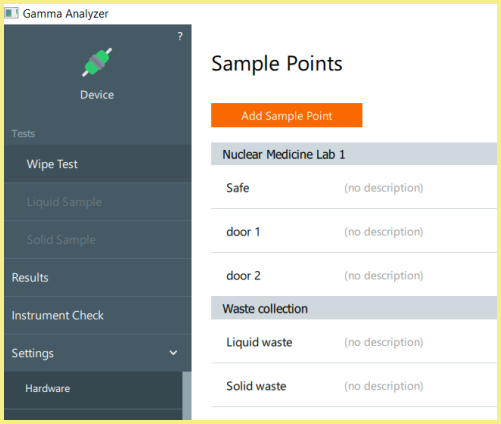
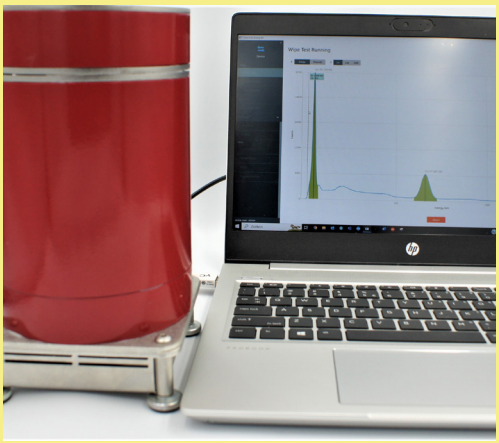
# Features & Benefits

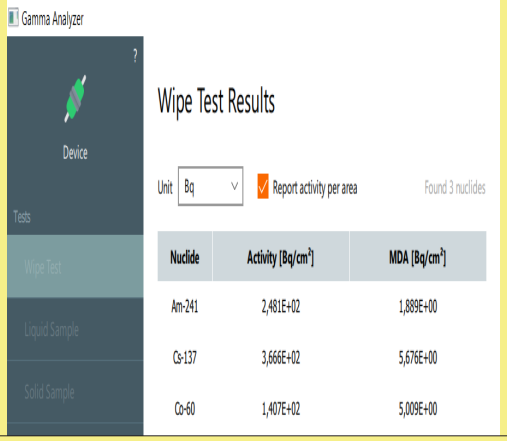
Operation Gamma Analyzer with streamed and modern software make the final objective easy to achieve maintaning the full capabilities of full-featured gamma-ray spectrometric system

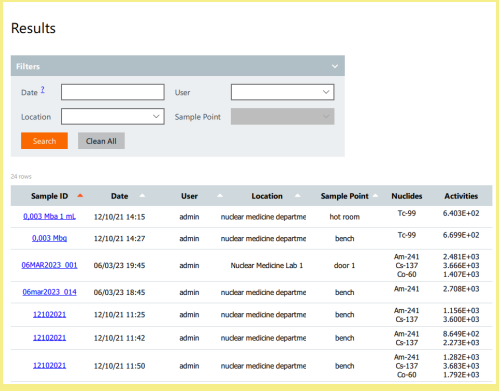
1. Login with username and password
2. Perform instrument check and confirm that connection with database is made
3. enter sample ID and location and sample points performing Wipe test assay
4. Start measurement
5. See Bq results and minimla detectable activity
6. Make pdf report when needed
7. Consult databas



# metorX Gamma Analyzer
## Specifications

| | |
|---|---|
| Scintillation material | NaI |
| Size crystal large volume and high active samples | Diameter 55 mm, height 65 mm |
| Size well for small volume samples and low active samples | Diameter 19 mm, height 50 mm |
| Internal diameter lead castle | 65 mm |
| Crystal readout | SiPM array |
| Low voltage for detector | 5 - 16 V |
| Warm up time | 30 seconds |
| Energy resolution at 662keV | < 7,5% |
| Number of channels MCA | 4096 |
| Connection to PC | Fast USB |
| Digital Baseline restorere | Yes |
| Dead time correction | Yes |
| Maximum countrate | > 100.000 cps |
| Lead shielding | 30 mm |
| Autocalibration and stabilisation | Yes |
| Full spectrum display | Yes |
| Photo efficiency calibration curve | Yes |
| Unilimted number of radionuclides in user defined library | Yes |
| Calculations in Bq, Bg/mass, Bq/volume or Bq/cm2 | Yes |
| Windows 10,11, LINUX compatible | Yes |
| Build in database | Microsoft SQL |
| Automatic Instrument Performance test | Yes |
| Dimension and wight well type system | 12 (b) x 12 (l) x 22 (h), 19 KG |
| Dimension and weight high activity volume sysem | 12 (b) x 12 (l) x 33 (h), 29 KG |

# metorX Gamma Analyzer
# Ordering information

| Product code | Description |
|---|---|
| Gamma Analyzer - SV | Gamma Analyzer with NaI well detector for radionuclide quantification of Wipe test paper using 8 mL vials standard. |
| Gamma Analyzer - LV | Gamma Analyzer with NaI detector for radionuclide quantification of up to 250 mL liquid or solid samples |
| Solid Geometry measurements | Radionuclice quantification based on customer defined solid sample geometry ( container, weight, volume) and radionuclide library. Only one solid geometry can be implemented.<br>In combination with Gamma Analyzer SV or LV. |
| Liquid Geometry measuremens | Radionuclice quantification based on customer defined liquid sample geometrie ( container, weight, volume) and radionuclide library. Only one geometry liquid can be implemented.<br>In combination with Gamma Analyzer SV or LV |
| Gamma Analyzer PRO | Unlimited acces to geometries, nuclide libraries, peak search and peak fit algoritms and reporting.<br>Only in combination with Gamma Analyzer SV-LV |

## LIQUID SCINTILLATION COUNTING

**HIDEX** Automatic and manual Liquid Scintillation counters - 600 OX Sample Oxidizer Q-ARE 100 for Sample preparation - Sense Beta Microplate reader - Scintillation Cocktails and vials **LABLOGIC** Beta-RAM for RadioHPLC

## NUCLEAR MEDICINE & PET

**HIDEX** AMG Automatic Gamma counter - Triathler manual counter - Radiowater Generator **LABLOGIC** Scan-RAM for iTLC, Logi-CHROM HPLC series, Logi-CHROM ONE all in onder radioHPLC system, Flow-RAM for RadioHPLC, LAURA, Spec-RAM for Radionuclidic Identity for radiopharmacies,, radioPETra and SPECTra Radiopharmacy Software **iPHASE** Multisym radiosynthesizer.

## GAMMA-RAY SPECTROMETRY

**AMETEK ORTEC** High Purity Germanium (HPGe) multichannel analyzers and analysis software - **BRIGHTSPEC** Digital multichannel analyzers and analysis software - **H3D** high-performance imaging spectrometers - **SCIONIX** Scintillation detectors - **METORX WATE ANALYZER** HPGe based Waste Analyzer System - Gamma Analyzer - **GA-MA** Marinelli beakers

## ALPHA-BETA COUNTING & ALPHA SPECTROMETRY

**AMETEK ORTEC** Alpha spectrometers - **PROTEAN** Automatic and manual Alpha beta counter, **METORX** Alpha-beta analyzer

## NUCLEAR & PARTICLE PHYSICS

**CAEN SpA** High/Low Voltage Power Supply systems, modular pulse processing electronics, Waveform digitizers, Digital Spectroscopy, educational kits.

## HANDHELD RADIATION DETECTION & IDENTIFICATION

**CAEN** DigiWaste Digital Platform - Radhand 600Pro for Nuclear Waste Management, **SOUTHERN SCIENTIFIC** Radhound Radiation monitors - **ECOTEST** personal dosimeters

## ENVIRONMENTAL CONTAMINATION MONITORING

**F&J SPECIALTY** high accuracy air sampling and airflow calibration instruments, TEDA impregnated charcoal and silver zeolite cartridges, **CAEN** Gamon-S Gamma radiation spectroscopy system for real-time radiation monitoring, **METORX** QUARTET gamma-spectroscopy system for nuclear weapon accident response

## RADIOACTIVE SOURCES

**ORANO LEA** alpha, beta and gamma sources, in liquid or solid matrix form, in multiple geometries and on a broad activity and energy spectrum. COFRAC* accredited

MetorX B.V
Oostdijkseweg 12
3252LN Goedeeerde
www.metorx.com
info@metorx.com
+ 31 187 630176

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