

MINIGITA LINE

RADIO-TLCs FOR RADIOPHARMACEUTICALS

Designed for the analysis
of radiotracers of all kind under
GMP conditions

- ✓ GMP – RADIO-TLCs
- ✓ ALPHA, PET & SPECT
- ✓ ADVANCED ANALYSIS
- ✓ VERSATILE



The miniGITA Line is a family of versatile state-of-the-art radio TLC systems. A complete range of detector probes allow the measurement of nearly every isotope. They are designed for optimal use in nuclear medicine, SPECT or PET laboratories. Simply exchange the detector and the collimators to get the best performance for every application. All miniGITAs use the same detectors and collimators to achieve the same excellent measurement performance. They feature low electronic noise, providing a stable baseline and enhancing resolution in low-activity measurements. Outstanding detection capabilities, excellent signal-to-noise ratio and optimal signal resolution make the miniGITAs the perfect workhorses for your lab.

The systems are fully integrated into **GINA X** software. The software facilitates easy and intuitive use. GINA includes a live spectrum display, advanced spectral analysis, manual and automatic data analysis, calibration, peak integration, half-life mode and radionuclidic purity determination (in %).

All data is stored on the **GINA X** SQL database and is integrated into the optional SARA software solution. The software is designed for GMP use and compliance with the technical requirements of the 21 CFR part 11. It also includes a comprehensive audit trail and data file protection.



For advanced GMP needs the system can be extended with a user-access module and an analysis certificate generator.

Different measurement modes and settings are available. Automatic energy calibration is achieved by using suitable calibration sources. To provide an optimal spectrum display, the spectrum resolution can be adjusted between 'low,' 'medium,' and 'high'.

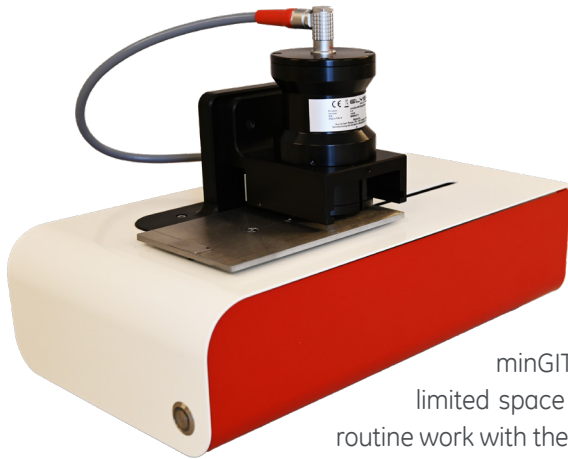
Our detectors work gas free, ensuring a long lifetime and low maintenance costs. The high sensitivity combined with the moving sample table completes TLC scans in under 1 minute while preserving analytical accuracy, accelerating QC turnaround. GxP features, spectrum scan capabilities and a basic half-life mode make the miniGITAs versatile systems for your quality control lab.

To avoid human errors, system settings and configurations will be detected automatically and stored in the electronic report. The new software allows 3 different measuring modes for chromatography, spectrum analysis and half- lifetime determination.

Automatically detects and logs system settings, reducing operator errors and ensuring fully traceable, 21 CFR Part 11-compliant documentation. The new software allows different measuring modes for chromatography, spectrum analysis and half-life time determination.

The miniGITA family has been developed to have the best performance for the TLC with best sensitivity, dynamic range and signal resolution for the chromatography. The half-life time and the spectrum mode enable fast and simple analysis.

They streamline QC workflows by cutting analysis time and reducing operator intervention through automated processes but depending on the application, a dedicated ionization chamber or multi-channel analyzer might be necessary.



MiniGITA range

The complete miniGITA range was designed to be as flexible and adjustable as possible, to ensure the highest performance and the best compromise depending on your actual application. Today we propose 3 different models, the miniGITA Slim, the miniGITA Single and the minGITA Dual. The Slim has been designed for working condition with limited space like in a Fume hood or an isolator. The Single is the perfect choice for routine work with the full 20 cm scan range the simple probe holder.

The Dual is the most advanced system. The dual probe holder with automatic distance recognition makes it easy to switch between different applications and measurements.

It is the perfect choice for labs with many different radio tracers and with very high GMP standards.

Detectors

We have a complete range of next-generation probes that use different scintillator materials and detection technologies.

All miniGITA models also recognize automatically the detector and collimator type installed.

The miniGITA Dual, can hold 2 probes and the probe distance can have 4 different settings also recognized and documented automatically. This automatic probe and collimator recognition provides perfect documentation of your setup and enhances your GxP tools.



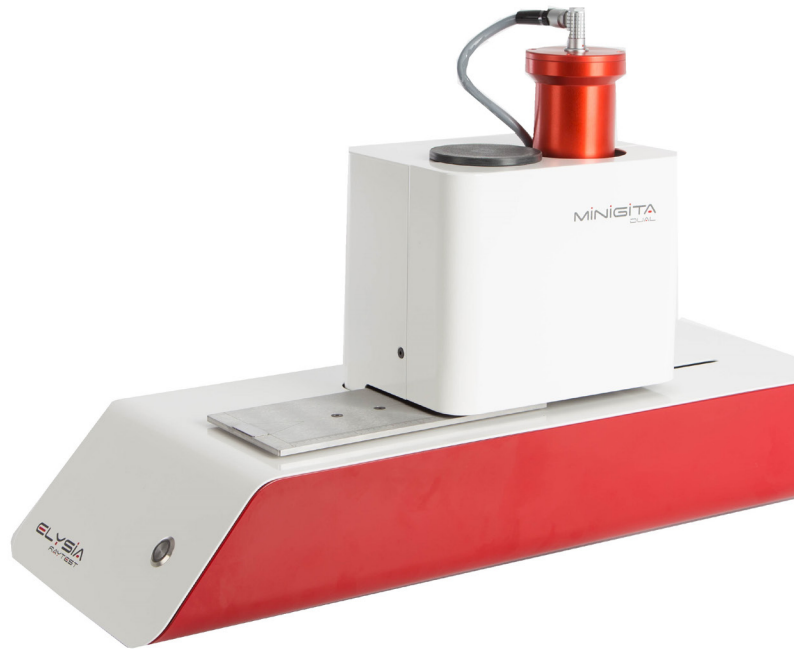
Detector	Application	Resolution	Dynamic range	MCA performance	Collimator needed
miniGita OFA	SPECT & PET	****	*****	***	Yes
miniGita PET	PET	*****	****	-	No
miniGita α	α & PET	*****	****	-	No
miniGita 3SA	MCA	*	**	*****	No

Probe types



miniGITA OFA (One-fits-all) probe

The One Fits All is based on our V-Shaped BGO technology. The crystal allows you to detect SPECT and PET isotopes. The special V-shaped gives the best resolution without a compromise on sensitivity. A broad range of collimators allows you to adapt the probe to a larger energy band. The detector also has a multi-channel function and is suitable for basic spectrum scans.



miniGITA α probe

The α -probe has been designed for use of alpha emitting tracers such as At-211, Pb-212 or Ac-225.

The miniGITA Alpha probe has been designed to provide optimal alpha sensitivity when combined with our TLC scanner. The probe is based on a ZnS (Tl) scintillator connected to a PMT, combining high efficiency for alpha radiation and low background for beta and gamma.

miniGITA PET probe

The probe has been designed for use in a PET laboratory. The scintillator and the digital detector technology allow a very high resolution and a high sensitivity to positrons. High insensitivity to gamma radiation and an extremely high dynamic range ensures very low background noise to gamma irradiation and the possibility to handle high amounts of activity. These skills make the detector the right choice for every PET facility.



miniGITA 3SA probe

The 3SA (Self Shielded Spectrum Analysis) probe for self-shielded spectrum analysis has been designed to achieve optimal spectrum analysis when combined with our TLC scanner. To eliminate background problems, the probe is self-shielded. Like all miniGITA probes, it uses ECP technology and can be used in combination with several other Elysia instruments. Built-in high quality PMT is the best choice for spectrum analysis and nucleic identification.

Collimators

miniGITAs have tungsten collimators with an automatic recognition for GMP documentation.

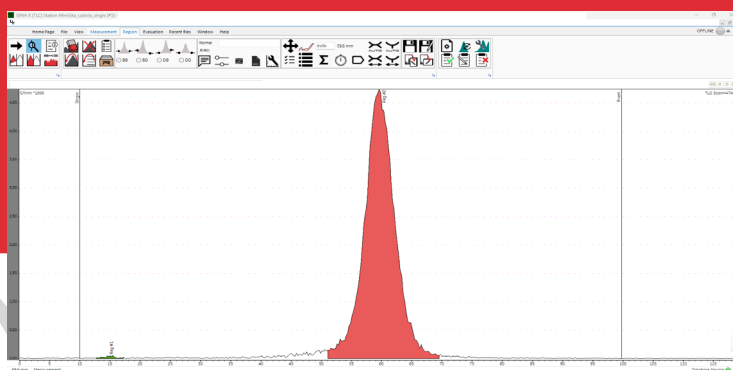
- miniGita collimator: 0-60 keV
- miniGita collimator: 60-250 keV
- miniGita collimator: 250-450 keV
- miniGita collimator: > 450 keV



Software

All miniGITAs are directly controlled with GINA software with digital signal transfer according to GMP/GLP standards. Background subtraction, half-life-time correction and dead time correction are only some of the features included. GINA can also be used to control the radio-HPLC, the GC or the multichannel analyzer. This allows faster adaptation and a short learning curve if you decide to use Gina for your QC systems.

GINA can be used as single instrument control or as centralized solution for your entire quality control equipment.



Specifications

Technical

Probe holder with automatic probe recognition

Number of installed Probes

Probe height recognition

Collimators

Automatic collimator recognition

Scan area

TLC strip carrier

Scan time

Probe/detector

OFA,

PET,

α-probe

3SA probe

Energy range

Count rate

Linearity

Communication

Physical

Dimensions

SLIM

✓

1

No

5, 10, 15, 20 mm

tungsten collimators

✓

25 x 150 mm selectable

For strips up to 15 cm selectable

✓

✓

✓

✓

30 – 2000 keV

0 – 500.000 (OFA, 3S);

0-1.000.000 cps (PET)

0 – 600.000 cps r2 >= 0.99 (PET)

USB2.0 and 10/100 Ethernet

L 390 x H 280 x W225

mm

SINGLE

✓

1

No

5, 10, 15, 20 mm

tungsten collimators

✓

25 x 200 mm selectable

For strips up to 20 cm selectable

✓

✓

✓

✓

30 – 2000 keV

0 – 500.000 (OFA, 3S);

0-1.000.000 cps (PET)

0 – 600.000 cps r2 >= 0.99 (PET)

USB2.0 and 10/100 Ethernet

L640 x H280 x W220

mm

DUAL

✓

Up to 2

Automated

5, 10, 15, 20 mm

tungsten collimators

✓

25 x 200 mm selectable

For strips up to 20 cm selectable

✓

✓

✓

✓

30 – 2000 keV

0 – 500.000 (OFA, 3S);

0-1.000.000 cps (PET)

0 – 600.000 cps r2 >= 0.99 (PET)

USB2.0 and 10/100 Ethernet

L640 x H280 x W220

mm

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