miniGITA SLIM

SMALL RADIO-TLC FOR SPECT AND PET

Designed for the analysis of radiopharmaceuticals under limited space conditions

- ✓ GMP – RADIO-TLC
- ✓ ALPHA, PET & SPECT
- ✓ BASIC SPECTRUM SCAN
- ✓ LIMITED FOOTPRINT

The miniGITA Slim is the new version of the well known miniGITA Single. Its size has been reduced to fit the actual space constraints of modern laboratories. Its small footprint allows it to be used in a laminar air flow or an isolator.
This was achieved by optimizing the internal mechanics without compromising the measurement technology. The new Slim can use the same detectors and collimators as the miniGITA Single or Dual and achieves the same excellent measurement performance.

It is a versatile state-of-the-art radio TLC system features low electronic noise, providing a stable baseline and enhancing resolution in low-activity measurements. A complete range of detector probes allow the measurement of nearly every isotope. It is designed for optimal use in nuclear medicine Alpha, SPECT or PET applications. Simply exchange the detector and the collimators to get the best performance for every application.

Outstanding detection capabilities, excellent signal-to-noise ratio and optimal signal resolution make the miniGITA Slim the perfect workhorse for your lab.

The system is fully integrated into the 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 data base 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 a 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 a suitable calibration source. 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 miniGITA SLIM a versatile system for your quality control lab.

ELYSIA RAYTEST

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.

Automatically detects and logs system settings, reducing operator errors and ensuring fully traceable, 21 CFR Part 11-compliant documentation. The new software allows 3 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 mode and the spectrum mode enable fast and simple analysis. They streamlines 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

Detectors

We have a complete range of next-generation probes that use different scintillator materials and detection technologies. The miniGITA Slim also recognizes automatically the detector and collimator type installed.

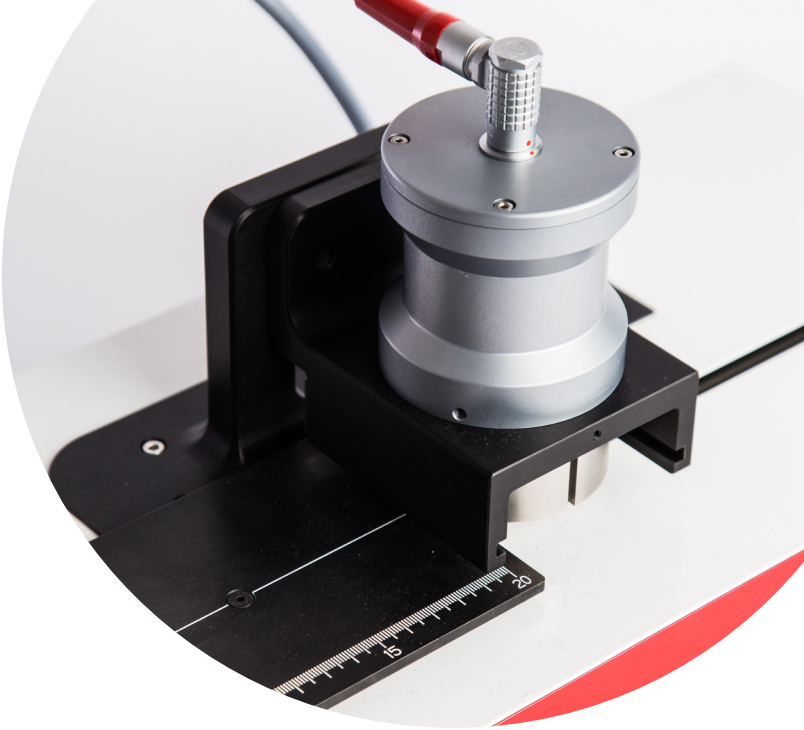
This automatic probe recognition provides perfect documentation of your setup and enhances your GxP tools.

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 well-known V-Shaped BGO technology. The crystal allows the detection of SPECT and PET isotopes. The special V-shape gives the best resolution without any loss of sensitivity. A broad range of collimators allows the probe to be adapted to a large energy band. The detector has also a multichannel function and is suitable for basic spectrum scans.



miniGITA α probe

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

miniGITA PET probe

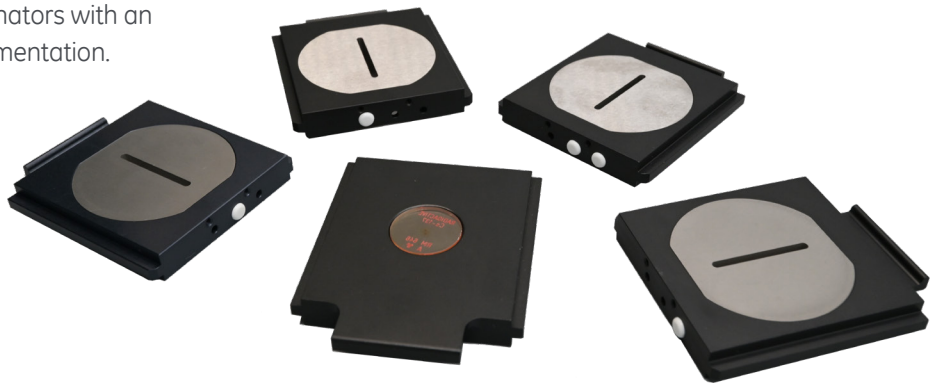
The probe has been designed for use in a PET laboratory. The scintillator and the digital detector technology allow a very high resolution and a high sensitivity to positrons. High insensitivity to gamma radiation and an extremely high dynamic range ensures very low background noise to gamma irradiation 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 miniGITA Self Shielded Spectrum Analysis probe has been designed to obtain an optimal spectrum analysis when paired with our TLC scanner. To eliminate background issues, the probe is self-shielded. As with all miniGITA probes, it uses the ECP and can be used in combination with several other Elysia instruments. The in-built high quality PMT is the best choice for spectrum analysis and nucleic identification

Collimators

The miniGITA Slim has tungsten collimators with an automatic recognition for GMP documentation.

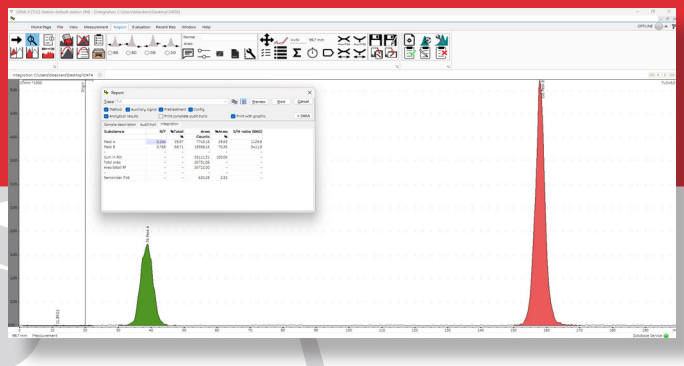


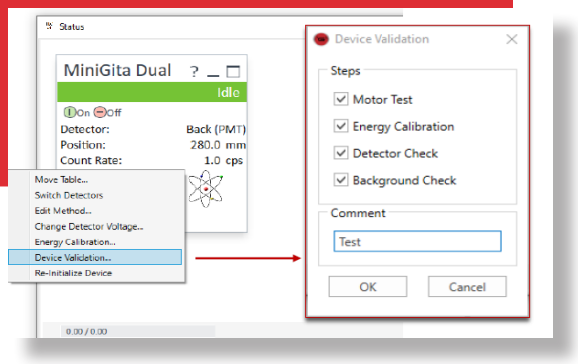
miniGITA collimator : 0-60 keV
miniGITA collimator : 60-250 keV
miniGITA collimator : 250-450 keV
miniGITA collimator : > 450 keV

Software

The miniGITA is directly controlled with GINA software with digital signal transfer according to GMP/GLP standards. GINA is also 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. Background subtraction, half-life-time correction and dead time correction are only some of the features included.





Specifications

Technical

Probe holder	with automatic probe recognition
Collimators	5, 10, 15, 20 mm tungsten collimators with automatic recognition
Scan area	25 x 150 mm selectable
Scan time	selectable
Probe/detector	miniGITA OFA, PET, α-probe and 3SA probe
Energy range	30 – 2000 keV
Count rate	0 – 500.000 (OFA, 3S); 0-1.000.000 cps (PET)
Linearity	0 – 600.000 cps r2 >= 0.99 (PET)
Communication	USB2.0 and 10/100 Ethernet

Physical

Dimensions	L 390 x H 280 x W225 mm
TLC strip carrier	For strips up to 15 cm

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