Scan-RAM™

PET/SPECT radio-TLC Scanner
with options for radio-HPLC and MCA

www.**lablogic**.com

LabLogic
EXPERIENCE & EXPERTISE

The innovative, flexible and compliant radio-TLC scanner

The Scan-RAM™ PET/SPECT radio-TLC scanner is available in two configurations, either with a single interchangeable detector, or connecting both 1" NaI and Plastic Scintillation detectors simultaneously, thus providing the best possible performance for PET and SPECT radionuclides. Fully controlled by the market leading radiochromatography software Laura for PET™, the Scan-RAM produces accurate and reproducible results for radiochemical purity measurements.

Compliance

As with all LabLogic products, the Scan-RAM™ has been designed to exceed regulatory requirements. The instrument's front panel only has a power button and display so all detector parameters are controlled via the software method. Used with our industry standard Laura for PET™ software, the Scan-RAM™ ensures regulatory compliance via controlled access and audit-trail.

Flexibility

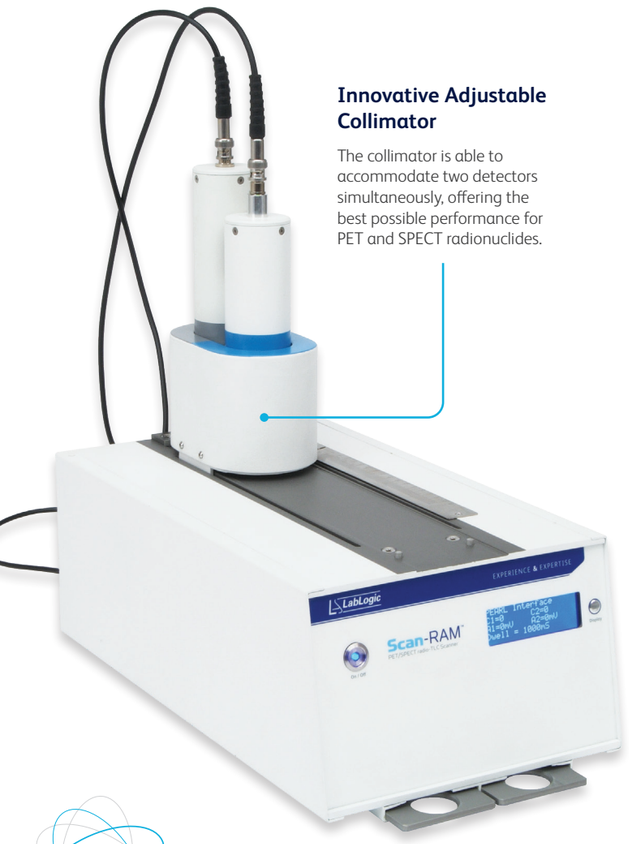
The Scan-RAM™ is available in three different models:

Model	r-TLC	r-HPLC	MCA
Scan-RAM™ *(Pages 2 - 3)*	✓	X	X
Dual Scan-RAM™ *(Page 4)*	✓	✓	X
Scan-RAM MCA™ *(Page 5)*	✓	X	✓

A wide range of detectors are available for the various Scan-RAM™ models, making the system suitable for both low and high levels of radioactivity.

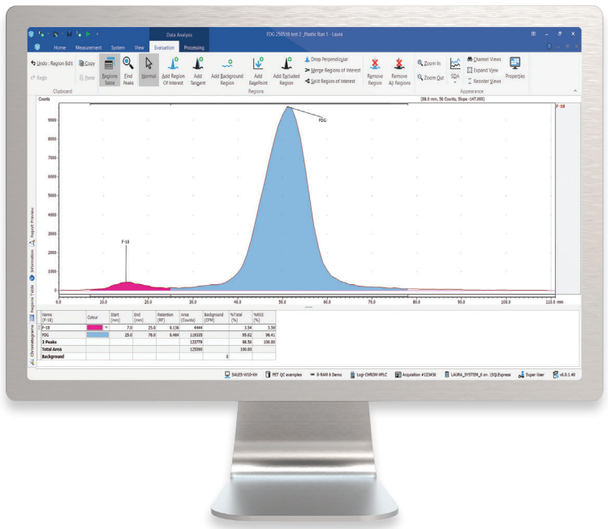
Innovation

LabLogic developed the Scan-RAM™ specifically for PET/SPECT applications, with a range of truly innovative features aimed at ensuring the system is compliant, safe and reliable.



Innovative Adjustable Collimator

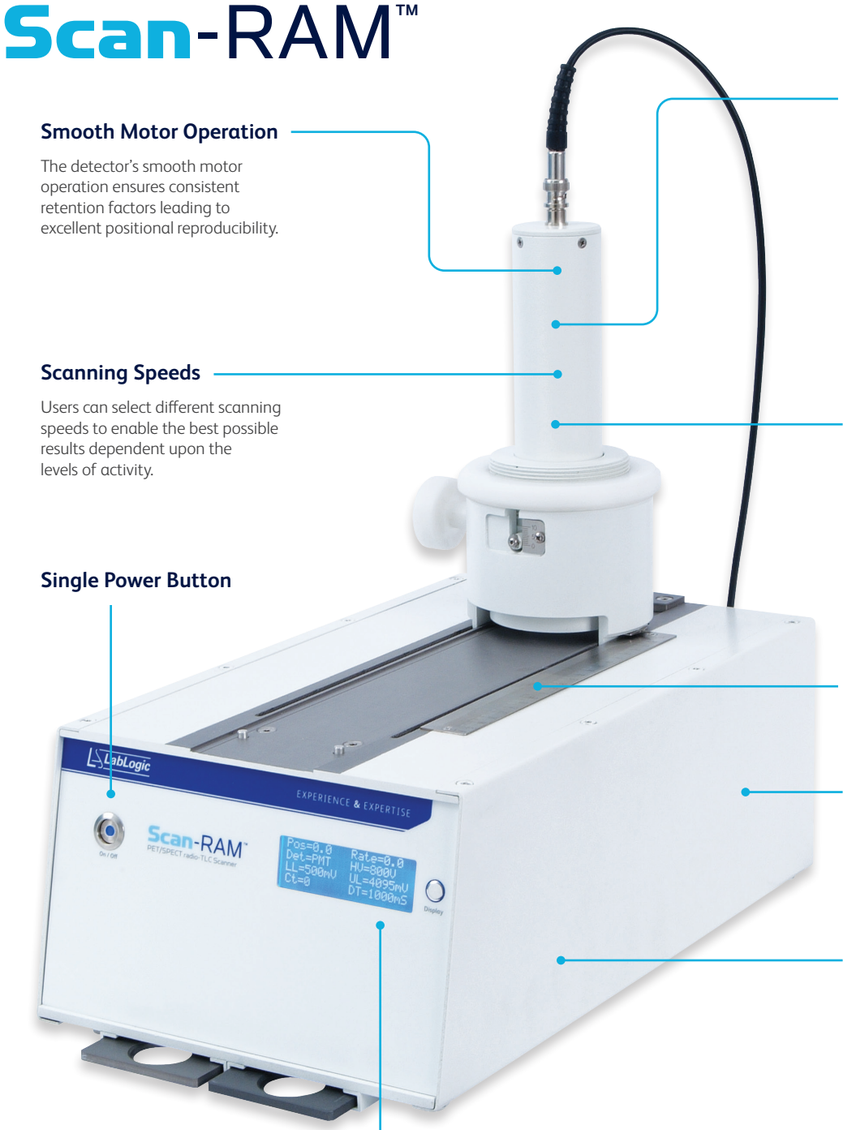
The collimator is able to accommodate two detectors simultaneously, offering the best possible performance for PET and SPECT radionuclides.



TLC Plate Beds

The Scan-RAM™ is supplied with TLC plate support beds which are easily cleaned, conveniently stored and ideal for lowering finger exposure. Accommodates any size TLC strip up to 5 x 20 cm.

Scan-RAM™



Smooth Motor Operation

The detector's smooth motor operation ensures consistent retention factors leading to excellent positional reproducibility.

Scanning Speeds

Users can select different scanning speeds to enable the best possible results dependent upon the levels of activity.

Single Power Button

A variety of Detectors

Suitable for PET, SPECT and Alpha and Beta radionuclides across a range of radioactivity levels.

See page 6 for a full list of TLC detectors.

Different Scanning Modes

Users can select to scan by time or number of counts. Whichever is reached sooner the instrument stops scanning.

Engraved Rule

USB Interface

Operating parameters such as high voltage, upper and lower level discriminators as well as power supply and data transfer are all achieved through a USB connection.

Built-in Analogue to Digital Converter

This feature converts signals from other detectors such as UV, ECD, etc., into digital for use within Laura™, bringing all signals into one place.

Intelligent Front End Display

Users are able to view instrument parameters and performance at a glance.

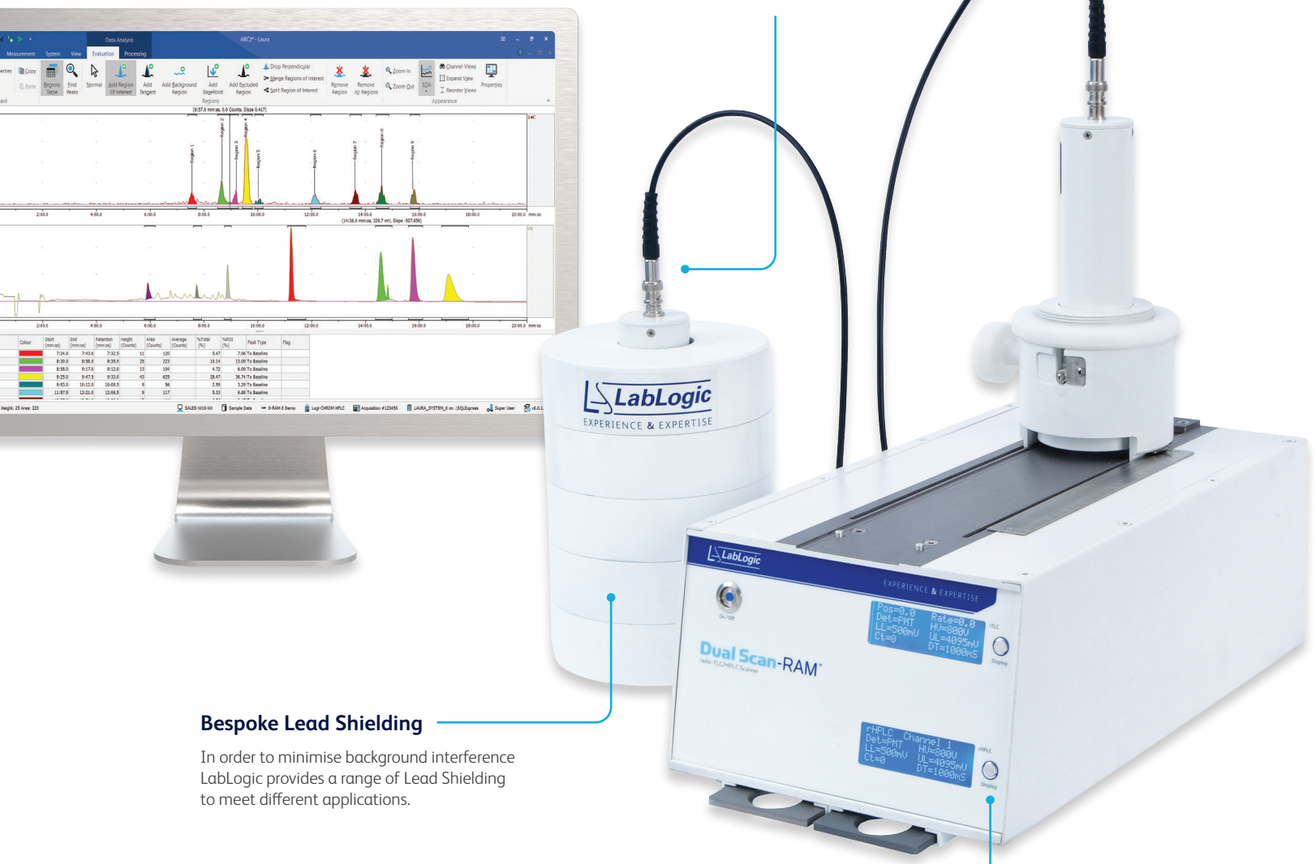
Basic Specifications	
Size	15 (H) x 38 (L) x 23 (W) cm
TLC Plate Size	5 x 20 cm
Weight	9.4 kg
Connectivity	USB
Power	24V DC (supplied)

Please refer to the Technical Specification Sheet for further information

Dual Scan-RAM™

A combined PET/SPECT radio-TLC scanner and radio-HPLC detector, designed to meet the ever increasing demands of the modern radiopharmacy.

It works simultaneously and independently offering ultimate flexibility, as well as saving valuable bench space.



A variety of Detectors

The Dual Scan-RAM™ can operate with a wide range of detectors, suitable for both low and high levels of radioactivity, making it an ideal instrument for radiochemical purity measurements.

Bespoke Lead Shielding

In order to minimise background interference LabLogic provides a range of Lead Shielding to meet different applications.

Independent radio-TLC / radio-HPLC Displays

Users are able to view radio-TLC and radio-HPLC parameters and performance on separate screens.

Basic Specifications	
Size	15 (H) x 38 (L) x 23 (W) cm
TLC Plate Size	5 x 20 cm
Weight	9.4 kg
Connectivity	USB
Power	24V DC (supplied)

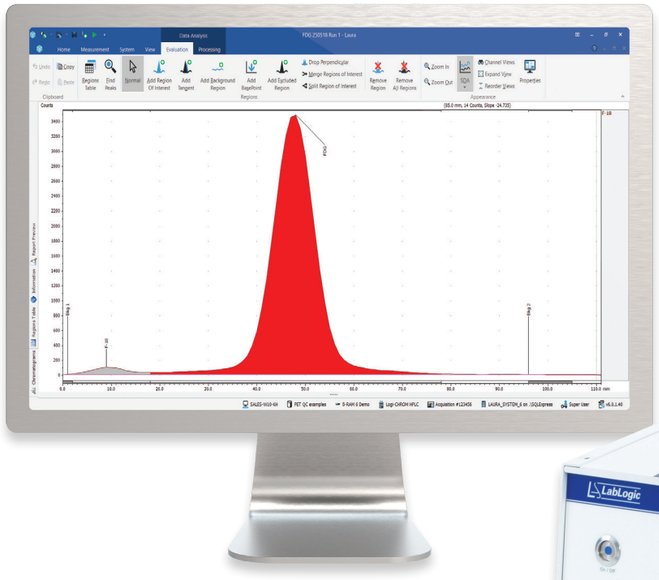
Please refer to the Technical Specification Sheet for further information

Scan-RAM MCA™

A combined PET/SPECT radio-TLC scanner and Multichannel Analyser designed to save laboratory space and speed up QC testing.

Users can run both Radiochemical Purity and Radionuclidic Identity tests in one combined run.

MCA options are available on all models of the Scan-RAM™.



Intelligent Front End Display

Users are able to view instrument parameters and performance at a glance.

Innovative Collimator

The collimator is designed to accommodate two detectors simultaneously while offering the best possible performance for PET and SPECT radionuclides.

Basic Specifications	
Size	15 (H) x 38 (L) x 23 (W) cm
TLC Plate Size	5 x 15 cm
Weight	10.5 kg
Connectivity	USB
Energy Resolution	7%-8% at 662 keV
Gamma Spectrum Measurement Time	1 m to 24 hrs
Power	24V DC (supplied)

Please refer to the Technical Specification Sheet for further information

Detector Options

radio-TLC Detector Options		
Detector	Radioactivity Type	Commonly Used Isotopes
1" NaI PMT	SPECT	Tc-99m, In-111
Plastic PMT	PET High Energy Beta	F-18, C-11, Ga-68, Rb-82 Lu-177, Y-90, I-131, Re-188, Re-186
Alpha PMT*	Alpha Radioactivity (Therapy)	Ac-225, Ra-223
0.1" NaI PMT	Low Energy Gamma	I-125

radio-HPLC Detector Options		
Detector	Radioactivity Type	Commonly Used Isotopes
1" NaI PMT	PET SPECT	F-18, C-11, Ga-68, Rb-82 Tc-99m, In-111
2" NaI PMT	High Energy Gamma	F-18, C-11, Ga-68, Rb-82, Zr-89
Plastic PMT	Beta	Lu-177, Y-90, I-131, Re-188, Re-186
0.1" NaI PMT	Low Energy Gamma	I-125
Well-Type NaI PMT	PET or SPECT with low amounts of activity i.e. small animal imaging applications and measuring low-level impurities.	
PIN Diode	Semi-prep HPLC purification of radio-tracer after synthesis.	
CsI PIN Diode	Semi-prep HPLC purification and occasionally quality control of clinical PET tracers. More sensitive than standard PIN Diode.	

MCA Detector Options		
Detector	Radioactivity Type	Commonly Used Isotopes
1" NaI PMT	All Gamma	All Gamma

*Requires a custom plastic collimator.

Scan-RAM™ is controlled by the industry standard radiochromatography software

Scan-RAM™ control, digital data collection, analysis and reporting is provided by Laura for PET™, the industry standard radiochromatography data system developed by LabLogic.

Single Software Solution

Laura for PET™ is a single software solution for the PET/SPECT QC environment. Rather than having to use several software systems, the QC analyst only needs Laura for PET with radio-HPLC, HPLC, radio-TLC, GC and MCA analysis.

Regulatory Compliance

Laura for PET™ is designed to meet the regulatory compliance requirements for GMP and FDA 21 CFR Part 11 and FDA 21 CFR Part 212 requirements.

Intuitive

Laura for PET™ is easy to use allowing quick familiarisation with the system and rapid adoption by its users.

Prudent Investment

From a standalone installation to a full client/server implementation, Laura for PET™ offers a scalable solution to your data storage requirements. Applications and data can be separated across local clients and central servers to match IT requirements.

Complete Workflow Solution

Laura for PET™ will guide the analyst through the main QC process. Methods can be pre-defined and chosen from a drop down list. Automatic settings provide for automatic peak integration and report printing.

Consistent and Secure

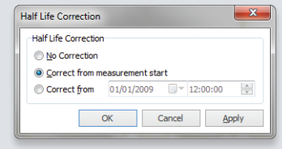
The software allows the user to lock the configuration of methods, reports, etc., to ensure consistency of data capture and presentation.

Digital Signal

Signals from radiochromatography instruments are reported digitally in counts, CPS and CPM. In addition, the full dynamic range of the detector is processed avoiding limitations commonly seen with analogue signals.

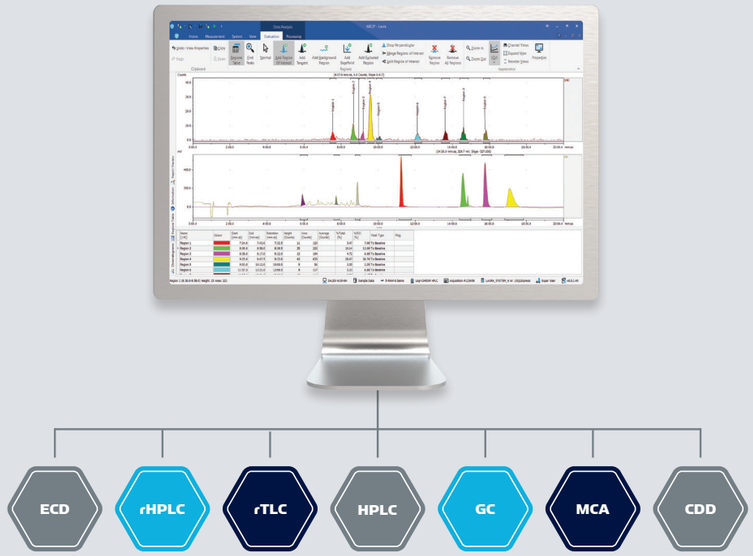
Half-Life Correction

Half-life correction function enables users to correct for half life while a run is in progress or post-run, using a reference time and date.



Reporting

Relevant values are reported such as % total for radiochemical purity checks. The powerful Report Designer allows you to configure multiple reports and to calculate and present data in real time.



Service and Support

Users of our systems can benefit from our comprehensive, fully inclusive service and support.

We can give reassurance that if things go wrong or you need expert advice, help is only an e-mail or phone call away.

Validation Services

Our Validation Service enables you to implement and get maximum value from your investments as soon as possible.

We work as a partner with your Quality Manager, System Manager and users to provide a tailored Validation Plan, suited to your needs. Our Validation Specialists who have many years' of experience in GLP system validation, detailed knowledge of our systems, together with other industry standard systems to help you meet company and regulatory requirements.

Training

LabLogic can provide a variety of training courses and workshops to help you get the most out of your instrument and software.

All training is performed by our expert Product and Support Specialists who have many years experience in the development and use of the instruments and software.

Certificates can be provided to complement your internal GLP training records.

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