

# Flow-RAM™

PET/SPECT radio-HPLC Detector

[www.lablogic.com](http://www.lablogic.com)



**LabLogic**

EXPERIENCE & EXPERTISE

# The innovative, flexible and compliant flow-through detector

LabLogic's PET/SPECT radio-HPLC Detector, the innovative Flow-RAM™, is designed to meet the ever increasing demands of the modern nuclear medicine laboratory.

## Flexibility

The Flow-RAM™ is available in a single or dual detector configuration. In the latter configuration, each of the detectors can be set up independent of each other and used for different applications, if required.

With a wide range of detectors suitable for both low and high levels of radioactivity, the Flow-RAM™ is an ideal quality control and research instrument.

## Compliance

As with all LabLogic products, the Flow-RAM™ has been designed to exceed regulatory requirements. The instrument contains only 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 Flow-RAM™ ensures regulatory compliance via controlled access and audit-trail.

## Controlled by Laura for PET™

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



### Basic Specifications

Size	8 (D) x 22 (L) x 23 (W) cm
Weight	2 kg
Connectivity	USB

Please refer to the Technical Specification Sheet for further information

### A Range of Detectors

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

### Bespoke Lead Shielding

In order to minimise background interference LabLogic provides a range of lead shielding to meet different requirements.

### Built-in Analog to Digital Converter

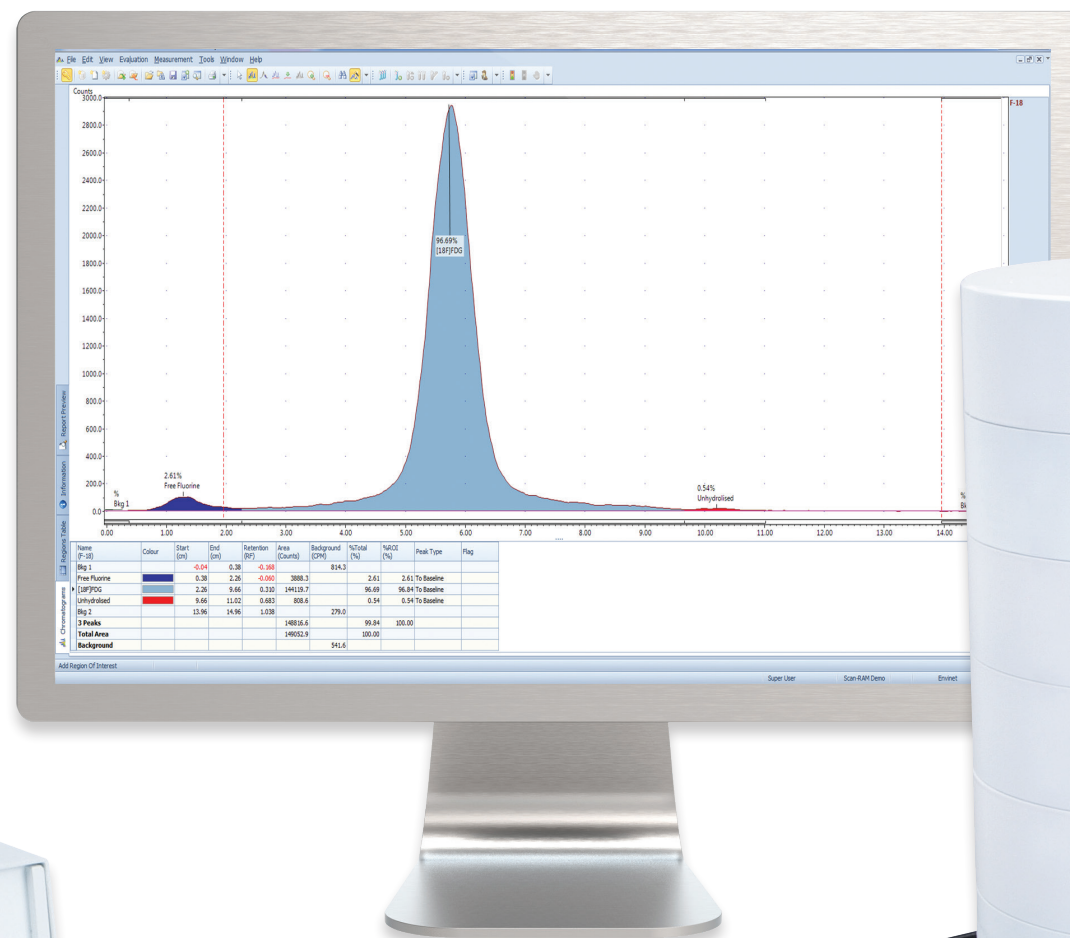
This feature converts analogue signals from other detectors such as UV, ECD, etc., into digital for use within Laura™, bringing all signals into one place.

### 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.

### Connectivity

The Flow-RAM™ is compatible with all commercially available HPLC systems.



### Built-in Analog

Users can take an analogue signal into any third party software.

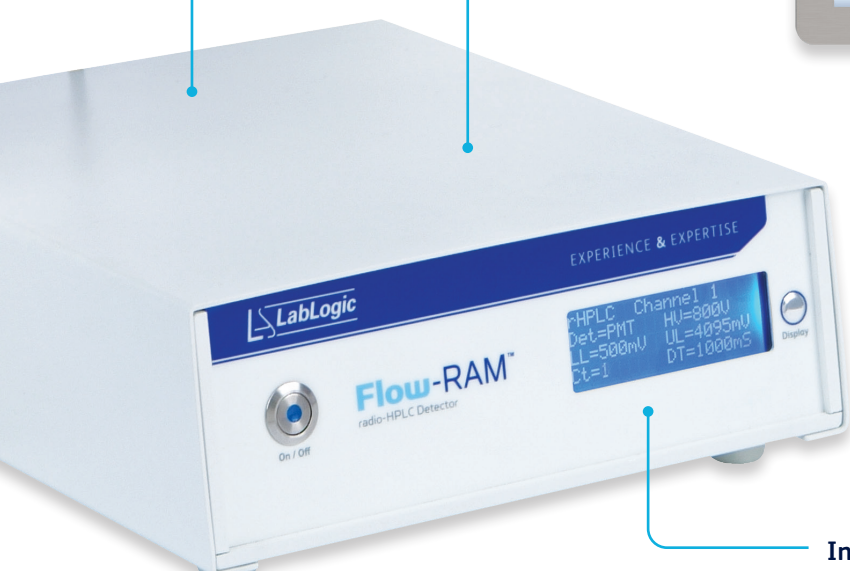
### Intelligent Front End Display

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

### NaI Well-type Detector



### Single Power Button



# Dual Flow-RAM™

The Dual Flow-RAM™ can have up to two detectors connected to it which can be used simultaneously and independently, thus providing maximum flexibility and a two-in-one solution.



### radio-HPLC Detector Options

Detector	Radioactivity Type	Commonly Used Isotopes
1" NaI PMT	PET	F-18, C-11, Ga-68, Rb-82
	SPECT	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.	

## Flow-RAM™ is controlled the industry standard radiochromatography software

Flow-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

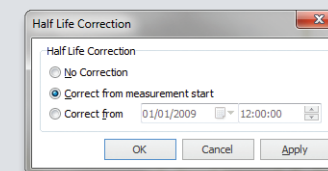
The software allows the user to lock the configuration of methods, reports, etc., to ensure consistency of data capture and presentation.

### 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 analog signals.

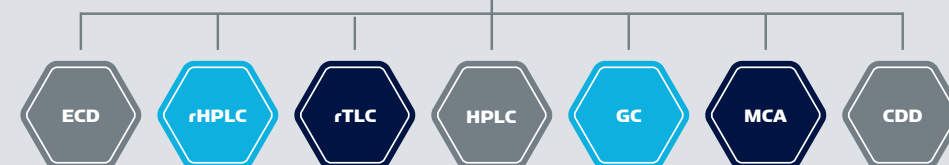
### Half Life Correction

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 have 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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