



Innovator In Spectroscopy Equipment

# RTL2419



## RADIOACTIVITY TLC SCANNER MODEL RTL2419

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CATALOG



SPECTROMETER



FREE DOWNLOAD

## RADIOACTIVITY TLC SCANNER MODEL RTL2118

### Features

- One trace scan 25 x 200 mm
- Variable scan speeds from 0.1-60 (mm/sec)
- Protocol-driven software package for QC, operation and calibration with live display on screen
- Supports all data extraction and reanalysis of stored data
- Integrated digital MCA with 4096 Channel resolution with automatic decay correction and peak integration
- Daily quality control of radiopharmaceuticals used in Nuclear Medicine procedures
- Full detector and data acquisition control via application software
- Spectroscopic analysis of radiopharmaceutical purity
- very high counting rate and dead time correction



**RADIO TLC SCANNER AND  
SPECTROSCOPY IN ONE!**

## Description

The RTL2419 evaluates the radiochemical purity of specific radiopharmaceuticals used in nuclear medicine procedures. The integrated digital MCA and the fully programmable motor control result in a system that is readily driven by protocol driven application software. This makes it straightforward to implement the different analysis parameters required by each radiopharmaceutical or procedure. The RTL2419 is well suited to the busy Nuclear Medicine Department with many procedures to perform.

The standard software provides a graphical user interface for TLC scan, gamma-ray spectroscopy, detector control, data acquisition, QA and database management. The provided factory programmed protocols may be supplemented by user defined protocols. The protocols provide automatic control of the detector scan, the acquisition as well as graphical display and analysis. QA is assured by the quality control procedure and trending analysis of the QA data as a function of time. The database option supports the extraction and re-analysis of all stored data.

## Specifications

### Inputs/outputs

#### Inputs

Knob, USB

#### Outputs

Display, USB

### Controls

#### knob

This knob provides the user with manual control over the device slider.

#### Power Push button

Push to turn device ON

Hold on for 3 sec to turn device OFF (long press)

While device ON push key to change mode (short press)

### Display

OLED, Full color

0.96", 96x64 pixels,

### Performance

#### Speed

0.1-60mm/sec

#### Travel length

200mm

#### Strip size

30 x 200mm

#### Collimators

Type1: 0 - 60keV, Width: 2mm

Type2: 60 - 300keV - Width: 3mm

Type3: 300 to 1500keV - Width:3mm

### Detector

NaI(Tl)

40mm x 40mm

### Data Acquisition

#### Processor

FPGA technology with Arm9 32 bit 200MHz

#### Watchdog

Built in

### Measurement/Spectrum

#### High Voltage

0 - 1500V (DAC 12bit) 0.2mA

#### Energy channel (Selective by Admin)

From 0 to 1024 keV

From 0 to 2048 keV

From 0 to 3072 keV

From 0 to 4096 keV

#### Energy calibration

Non-linear empirical function or linear Calibration (polynomial fit)

#### Spatial Rol

Radiopharmaceuticals (arbitrary number of Rol)

Impurity (arbitrary number of Rol)

Background (one Rol)

### ADC

#### Channels

12bit in 4096CH @120Mhz FRQ

#### Conversion time

200nsec with

8.3nsec time interval

## Application

- Radiochemical purity measurements
- Online inspection
- Laboratory and quality control
- SPECT quality control

## Electrical and Mechanical

### Power required

AC to DC adaptor 48V 1.25A

### Physical

Dimensions	466mm x 230mm x 357mm (LxWxH)
Weight	12.780kg
Storage temperature	0°C to 50°C
Operating temperature	10°C to 45°C.

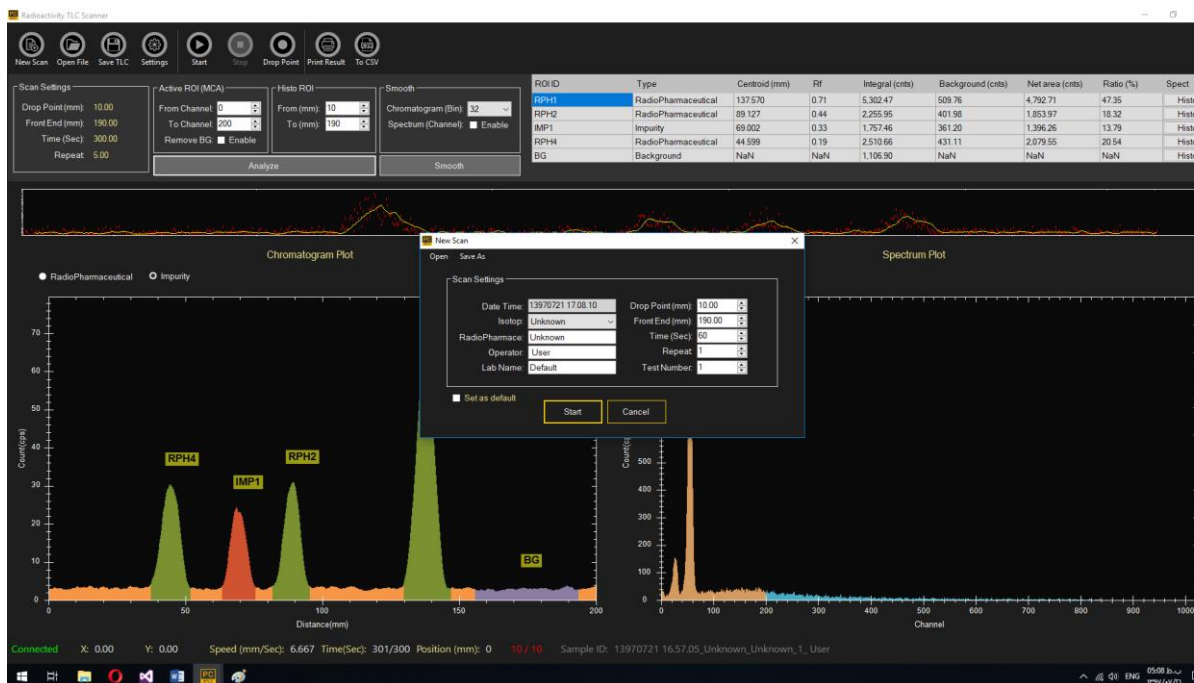
## Software

Online setting, Experimental Setup window, Scan area configure, Multi-channel analyzer (TYP: 1024CH)

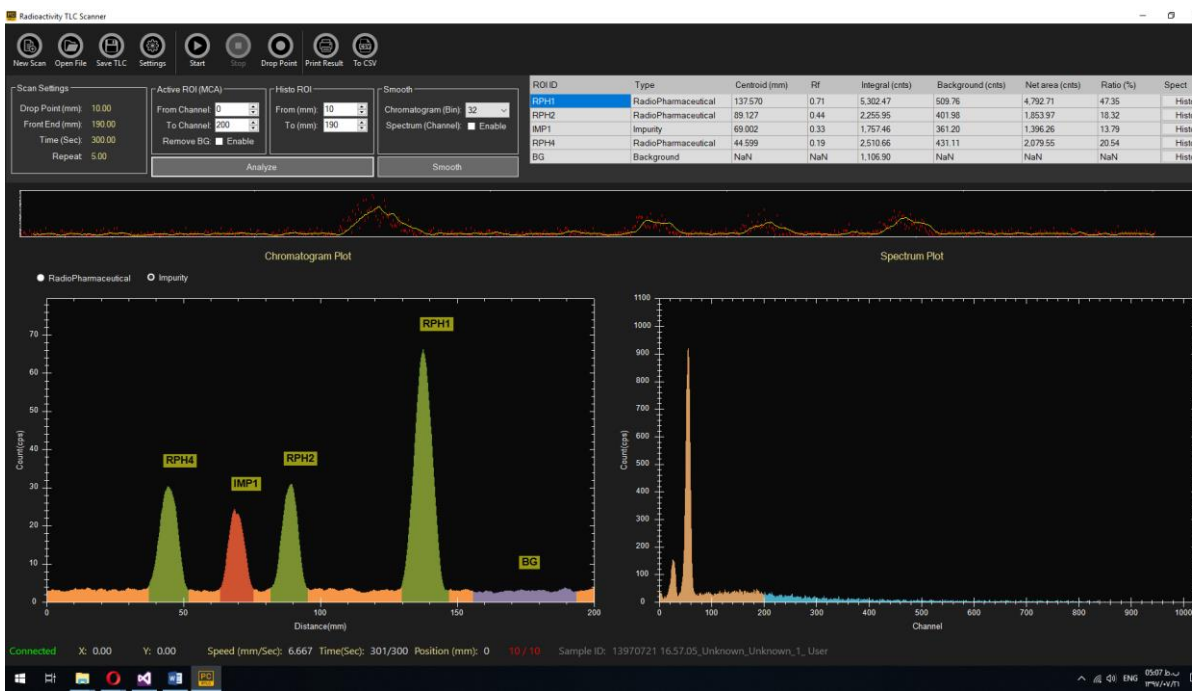
Analysis result, ROI selecting

Save all results to CSV format

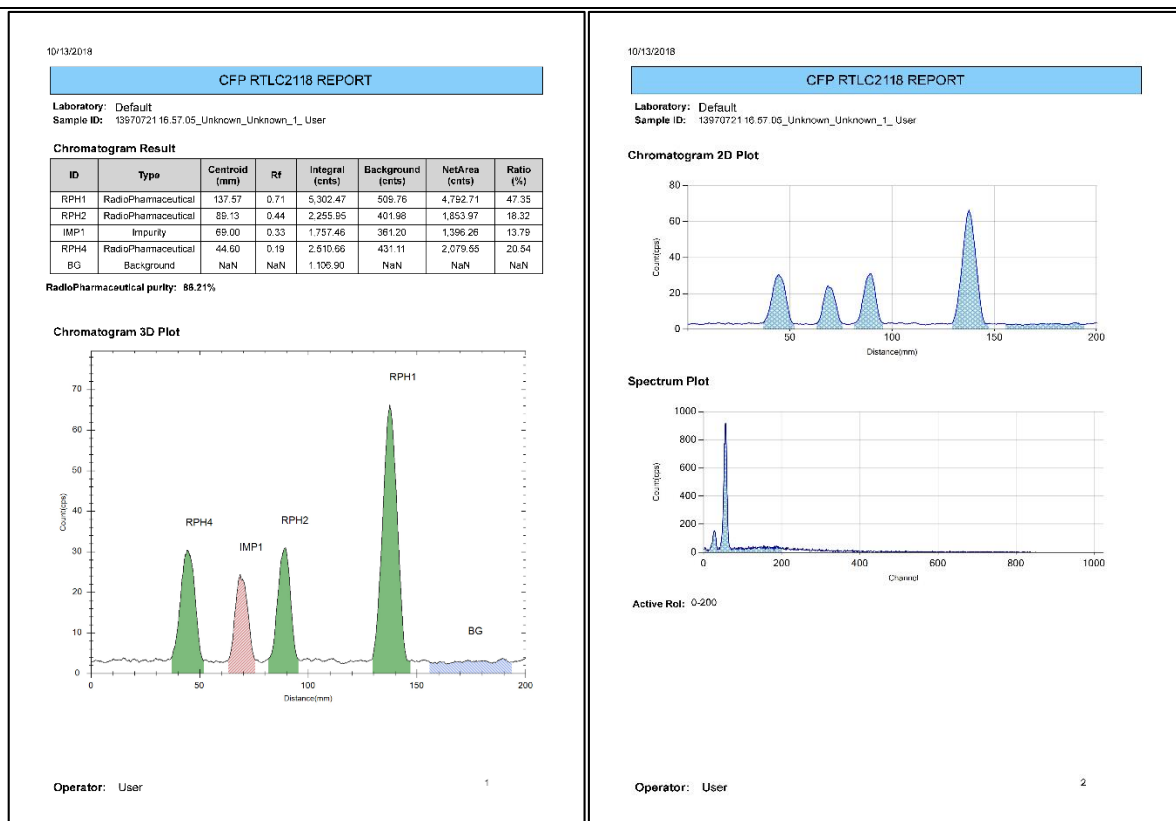
Report panel (Color, Gray, Monochromic), Chromatogram result, Chromatogram 3d and 2d plot result, Spectrum plot result



Experiment setup window








Data acquisition window






Typical Software report

## Ordering info

### Standard package includes

Part #	Image	Description
RTLC2419 main		Includes the main body of device (Detection system, linear stage, integrated display)
ACCE2419001		5pin LEMO to 5pin LEMO connector for Main to detector connection.
ACCE2419002		LEMO Cable to USB for PC connection
ACCE2419003		DC Power adaptor 48V 1.25A
ACCE2419004		CD User guide (1 Pack)

### Optional accessories and services

Part #	Image	Description
ACCE2419005		installation
ACCE2419006		Training
ACCE2419007		Hard case with foam insert



Innovator in Spectroscopy Equipment



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