

# Mini-Scan

## Radio-TLC and Radio-HPLC-System



Mini-Scan is a versatile, low-cost radio-TLC scanner for the reliable detection of radioisotopes on narrow strips and plates.

### Technology

Mini-Scan is a versatile TLC scanner for the reliable detection of radioisotopes on narrow strips and plates. The system is ideal for routine quality control of [ $^{18}\text{F}$ ]FDG,  $^{99\text{m}}\text{Tc}$  and  $^{123}\text{I}$  radiopharmaceuticals.

A complete Mini-Scan system consists of a moving stage, a Flow-Count system and a PMT based detector. Flow-Count is a radioisotope HPLC detection system, which is compatible with all HPLC systems. Mini-Scan uses various interchangeable NaI photomultiplier detectors for measurements of most isotopes including  $^{18}\text{F}$ ,  $^{125}\text{I}$ ,  $^{131}\text{I}$ ,  $^{99\text{m}}\text{Tc}$ , and  $^{111}\text{In}$ . Several scan speeds and variable detector slits allow the detectors to measure a wide range of activities from 10 nCi to 100  $\mu\text{Ci}$ . Analog and digital signals are provided for interfacing Mini-Scan with existing chromatography data systems. *RaPET Chromatography Software* can also be used for your data collection and report generation requirements.

### Applications

- Routine quality control of [ $^{18}\text{F}$ ]FDG,  $^{99\text{m}}\text{Tc}$ ,  $^{123}\text{I}$  radiopharmaceuticals
- TLC of radiopharmaceuticals labeled with gamma, beta, and alpha emitters
- $^{14}\text{C}$  verification in pharmaceutical and toxicology studies
- In-process TLC analysis of reaction mixtures

### RaPET Chromatography Software

*RaPET Chromatography Software* is a comprehensive chromatography data collection and analysis package. This evaluation software is very reliable and easy-to-use. It furthermore consists of a GMP database ensuring GMP compliant documentation and also adhering to 21 CFR part 11.

### Features and benefits

- Easy-to-use system with maximum flexibility
- Easily adaptable for dual use as an HPLC detection system: Flow-Count (requires flow cells and detector holder)
- Compatible with all chromatography data systems and *RaPET Chromatography Software*
- Range of detectors to suit many applications
- Capable of monitoring two detectors simultaneously (Radio-HPLC mode)
- Easy system setup and maintenance

### Models

#### MS-1000F

Mini-Scan TLC Radiochromatography system with single PMT Flow-Count base unit and scanning stage. Variable scan speeds, collimated detector holder, analog and digital outputs.

#### MS-2000F

Mini-Scan TLC and HPLC Radiochromatography system with Flow-Count dual detector unit and scanning stage. Variable scan speeds, collimated detector holder, analog and digital outputs.

#### MS-2000FP

Mini-Scan TLC and HPLC Radiochromatography system with Flow-Count dual PMT base unit and scanning stage. Variable scan speeds, collimated detector holder, analog and digital outputs.

# Mini-Scan

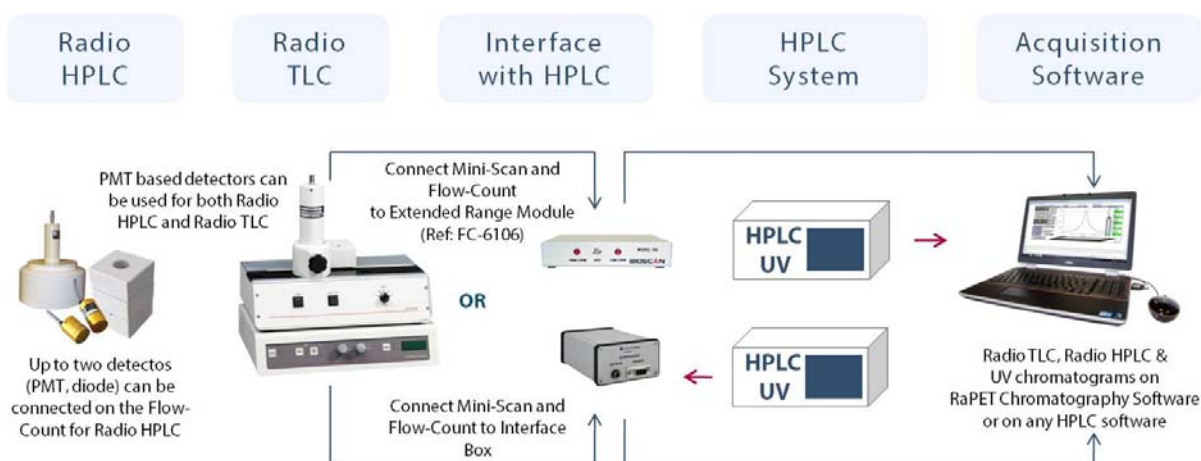
## Detectors

Two types of detectors are available for the Mini-Scan system, a standard Na/I crystal and a plastic scintillator. These interchangeable detectors provide the system with the flexibility to measure a wide range of isotopes and activities. See the Flow-Count documentation for more information about radio-HPLC detectors.

- The FC-3100 Na/I PMT based detector is a low energy gamma (10 - 60 keV) detector used primarily for <sup>125</sup>I.
- The FC-3200 Na/I PMT based detector is a high energy gamma (>60 keV) detector used in most nuclear medicine applications.
- The FC-3600 Plastic Scintillator/PMT based detector is ideal for the detection of <sup>32</sup>P, <sup>90</sup>Y and other high energy beta emitters.

## Upgrade your Mini-Scan to a Radio-HPLC detection system

Check our Flow-Count flyer for Radio-HPLC detectors, detector holders and flow cells.



## Eckert & Ziegler Radiopharma Inc.

63 South Street, Suite #110  
Hopkinton MA 01748  
USA

Phone: +1 508 497 0060  
Fax: +1 508 497 0061

eurotope@ezag.com  
www.ezag.com/radiopharma