



**Instrument Display**



**Moving Table & Detector Bridge**

# Chromatogram Scanning Counter

## Medical Isotope System

Model - HY-1M

## Features

- Accepts Paper Chromatograms, TLC Strips, and Electrophoreses
- Sensitive Thin Window Scintillator
- Spot and Slit Collimators for Low, High Energy and Mixed Gammas
- High Precision Digital Drive Scanner
- Sees All Gammas Greater Than 20 KeV
- Optimized for Medical Isotopes
- Computer Controlled
- Expandable to Multiple Detectors
- Multi-channel Analyzer with Basic Spectro-analysis Software
- Programmed to Analyze and Compare Traces

## Application

Radio-Tracer methodology in Biochemistry, Biomed and Clinical Lab, Radiopharmacy, Nuclear Medicine.

## Description

The HY-1 series instruments are automatic scanners for TLC's, gels, paper chromatograms and electrophoreses.

- A moving 10" x 20" plate carries a 20 cm TLC or other sample in controlled steps under a bridge.
- Examines trace on the sample.
- Transfers information to coupled computer.
- Detectors are interchangeable.

Standard detector is a thin window scintillation detector highly sensitive to:

- Low energy Gammas (such as those from I125, Tc99m, etc.).
- Gammas of all energies above 20 KeV (I131, Fe59, Cr51, Co57, etc.)
- Betas above 500 KeV (P32, etc.).

Included in the system is pulse height analysis resolution and "Isotope Library: to allow visualization and estimation of Isotopic content.

The multi-channel analyzer with its associated software added to the localization and quantification of radioactive content in the peak analyzer makes the HY-1 a versatile TLC scanner.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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# Chromatogram Scanning Counter

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### Specifications

Electronics:	On Board Computer with MCA Multi-channel.
Detector:	25mm x 25mm NaI(Tl) Scintillator coupled to high gain PM tube. Optional Shielding with 2.5 cm lead) Good resolution
TLC Scanner Resolution:	1, 2, 5 or 10mm selectable distance per step
Counting Time:	1, 3, 10, 30, 100, 300, 1000, 3000 sec. intervals per step
Collimators:	2mm, 5mm, 10mm spot. Thin (low energy) 2mm, 5mm, X10 mm slit
Gamma Resolution:	2mm
Plate or Strip Size:	Nominal: 2.5 cm x 20 cm Maximum: 5 cm x 30 cm
Weight:	75 lbs. (34 Kg)
Power:	220 VAC or 110 VAC, 50-60Hz



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