

CHROMATOGRAM SCANNING COUNTER

Medisotope Model # HY-1M

FEATURES:

- ACCEPTS PAPER CHROMATOGRAMS, TLC STRIPS & ELECTROPHORESIS
- SENSITIVE THIN WINDOW SCINTILLATOR
- SPOT & SLIT COLLIMATORS FOR LOW, HIGH ENERGY AND MIXED GAMMAS
- HIGH PRECISION DIGITAL DRIVE SCANNER
- SEES ALL GAMMAS > 20 KeV OPTIMIZED FOR "MEDICAL" ISOTOPES
- PC CONTROLLED, EXPANDABLE TO MULTIPLE DETECTORS
- MULTI-CHANNEL ANALYZER WITH BASIC SPECTRO-ANALYSIS SOFTWARE
- PROGRAMMED TO ANALYZE AND COMPARE TRACES

APPLICATION: TRACER METHODOLOGY IN BIOCHEMISTRY, BIOMED & CLINICAL LAB, RADIOPHARMACY, NUCLEAR MEDICINE .

The HY-1 series instruments are automatic scanners for TLC's, gels, paper chromatograms and electrophoreses. A moving 2" x 12" plate carries a 20 cm TLC or other sample in controlled steps under a bridge, examines trace on the sample and transfers information to coupled computer. Detectors are interchangeable. Normally supplied is a thin window scintillation detector highly sensitive to low energy gammas (such as those from I^{125} , Tc^{99m} , Fe^{59} etc.) plus gammas of all energies above 20 KeV (I^{131} , Cr^{51} , Co^{57} etc.) and betas above 500 KeV (P^{32} etc.).

Included in the computer is pulse height analysis resolution and "Isotope Bank: to allow immediate visualization and estimation of Isotopic content. The multi-channel analyzer card in the computer with its associated software added to the localization and quantification of radioactive content in the peak analyzer section of computer makes the HY-1 a full function, versatile, TLC scanner.

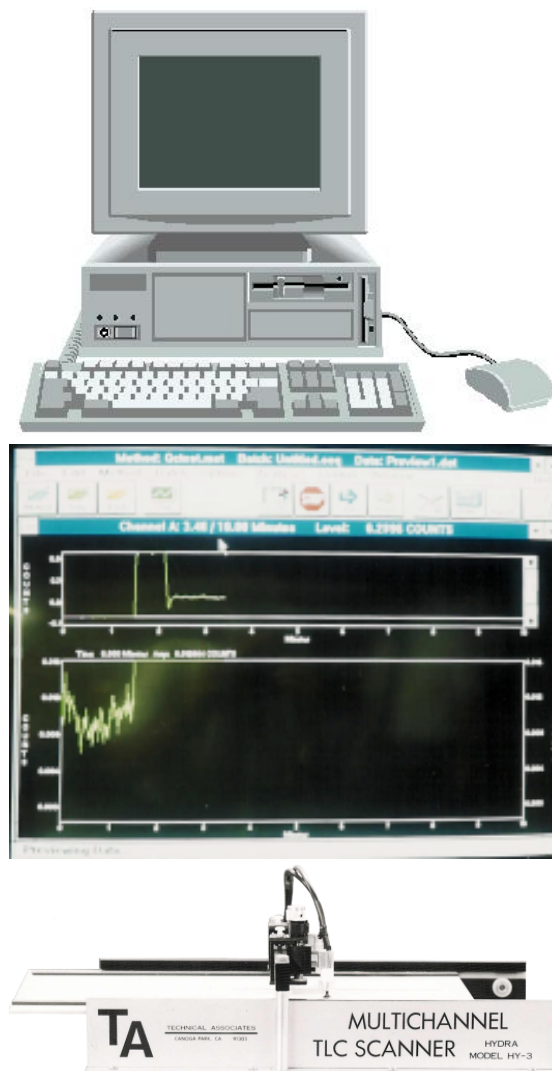


Figure 1: HY-1M, Hydra Series TLC Scanners

TA

TECHNICAL ASSOCIATES

7051 ETON AVENUE * CANOGA PARK, CA 91303 TELEPHONE (818) 883-7043 * FAX(818) 883-6103

\$Revision: 1.2 \$

CHROMATOGRAM SCANNING COUNTER

Medisotope Model # HY-1M

SPECIFICATIONS:

Electronics:	Integrated PC with MCA Multi-channel analyzer card Single channel MGA-5202 module (optional additional channels)
Detector:	25mm x 25mm NaI(Tl) Scintillator coupled to high gain PM tube. (Shielded with 2.5 cm lead) typical resolution is 8.5% based on 662 KeV gamma of Cs ¹³⁷ .
Sensitivity (30 sec/step):	100 DPM (as measured with I ¹²⁵).
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
Software:	Blood Volume analysis and Schilling's analysis software, Windows compatible
Plate or Strip Size:	Nom. 2.5 cm x 20 cm Max 5 cm x 30 cm
Weight:	130 lbs. (59 Kg)
Power:	220 VAC or 110 VAC, 50-60Hz
Features:	Read-out: 15" color monitor Programs: Peak Resolution Multi-channel analyzer with Isotope Data Bank Software which is pre-loaded on Hard Drive. Automatic operation. PC comes with CD writer



TECHNICAL ASSOCIATES

7051 ETON AVENUE * CANOGA PARK, CA 91303 TELEPHONE (818) 883-7043 * FAX(818) 883-6103

\$Revision: 1.2 \$