

Hidex Triathler

Liquid Scintillation Counter and Gamma Counter



Instant results whenever and wherever with this compact and portable counting system

The Hidex Triathler is a single sample counter which provides fast and accurate results for several life science and environmental applications. It can count all radioisotopes including tritium in a variety of sample formats.

Due to its very small size and light weight,
Triathler can be taken into the field to measure
samples on the spot. Although small, Triathler
has many advanced features such as spectrum
analysis using a multi-channel analyser
(MCA), instant DPM results, single-photon
luminescence counting, and optional
PC control and data transfer.



Monitoring with the Triathler



Easy to use

A keypad allows single key operation for immediate results using preset protocols for any isotope.

Flexible

The Triathler is suitable for just about any beta radiation, gamma radiation or luminescence application and accepts most types of vials and sample formats.

Portable

The Triathler's small size and light weight make it ideal for personal use on a benchtop or for on-site field/sea measurements.

Sophisticated

Triathler has advanced features such as a built-in multi-channel analyser, optional alpha-beta separation electronics, and connectivity to a PC for instrument control and data export.

Hidex Triathler

Basic Specifications 13" (L) x 10" (W) x 7" (H) (33 (L) x 25 (W) x 19 (H) cm) Size Weight 20 lbs (9 kg) 110 - 240 V AC, 12 VDC Power Sample Types LSC Vials, Microtubes, Test Tubes Single-Photon Counting PMT Detector 2 x 16 character alpha-numeric LCD Display 2 keV - 2,000 keV **Energy Range Counting Time** 0.1 seconds - 99999 minutes RS-232C/USB to PC Output

Please refer to the Technical Specification Sheet for further information

Specifications – Liquid Scintillation Counting

Sample Types LSC Vials, Microtubes, Test Tubes

Maximum Count Rate 2,000,000 CPM

Betα Efficiency Up to 45% for ³H

Direct 32P Efficiency Up to 75% in PSA Tube

Specifications – Gamma Counting

Sample Types	Tubes or Vials (up to 0.5" (13 mm) diameter)
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Detector 1" x 1" (32 x 32 mm) NaI (TI) crystal (through-hole)

Background Shield 0.4" (10 mm) lead

Specifications – External Gamma Counting

Sample Types LSC Vials, Microtubes, Test Tubes, Marinelli Beakers*

Detector 2" x 2" (50 x 50 mm) NaI (TI) crystal (planar type)

Background Shield 1" or 2" (30 or 50 mm) lead

*Only available with the Becquerel Finder model of Triathler

Life Sciences applications for the Triathler

Molecular Biology

Triathler is well suited for metabolic studies, genetic studies, cell proliferation assays, receptor-ligand assays, and other applications in biosciences. For example, using the optional plastic scintillator adapter (PSA), ³²P can be measured non-destructively (without cocktail).

Marine Biology

Triathler is commonly used to measure growth of phytoplankton in seawater and lakes by measuring uptake of ¹⁴C.

Emergency Response

Triathler is well suited for in-field emergency response, e.g. detecting rapid alpha measurements such as ²⁴¹Am as well as ¹³⁷Cs and ¹³¹I. The external NaI detector can accommodate up to 1 L Marinelli beakers* to measure food, soil, and liquids (water, milk, etc.) for gamma contamination.

* Only available with the Becquerel Finder model of Triathler.

Research

Triathler is ideal as an easy-to-use diagnostic tool in research for detection of beta and gamma isotopes, such as ¹²⁵I, ¹⁸F, ¹³⁷Cs, ⁵⁷Co, etc.



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.

USA & Canada

LabLogic Systems, Inc.

1911 N US HWY 301, Suite 140 Tampa, FL 33619, USA

E-mail: solutions@lablogic.com Tel: +1-813-626-6848 Fax: +1-813-620-3708

www.lablogic.com

Europe & Worldwide

LabLogic Systems Limited

Paradigm House, 3 Melbourne Avenue Broomhill, Sheffield, S10 2QJ, UK

E-mail: solutions@lablogic.com Tel: +44 (0)114 266 7267 Fax: +44 (0)114 266 3944

www.lablogic.com







