

Hidex 300 SL

Liquid Scintillation Counter



HIDEX

LabLogic

EXPERIENCE & EXPERTISE

The most advanced transportable and user friendly LSC on the market

The Hidex 300SL is a revolutionary instrument which incorporates the most advanced technology available, triple-to-double coincidence ratio (TDCR) counting.

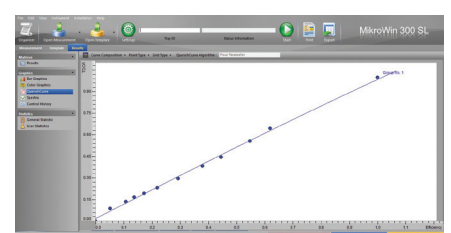
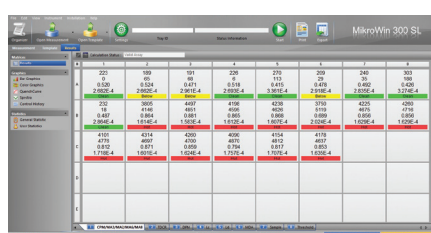
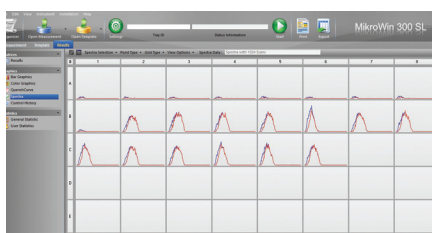
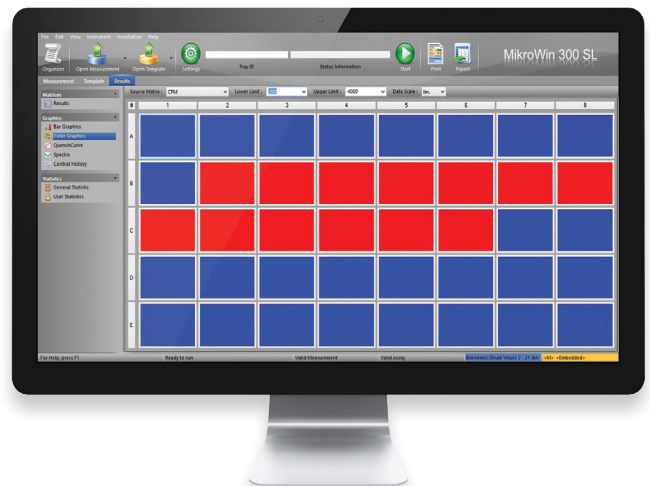
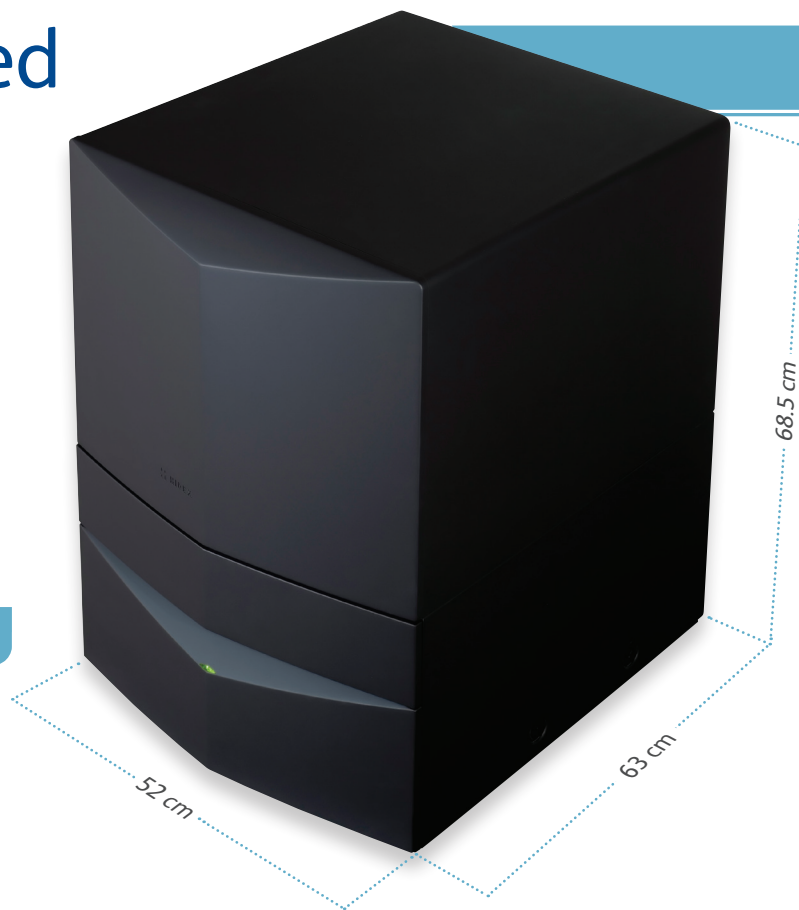
Compact and Transportable

The 300 SL has a modern and compact design measuring half the size and weight of some of its long standing rivals. It is therefore much easier to fit into smaller, more space conscious laboratories, such as transporting in research vessels or mobile labs.

User Friendly Software

The 300 SL uses an external PC which is Windows 7 and 8 compatible, enabling several users to transfer their method and data files to other offline or networked PC's.

The MikroWin 300 SL software features an easy-to-use graphical interface and advanced data reduction capabilities. An unlimited number of protocols, easy export to Excel™, custom calculations and quench curves are all included. MikroWin also has options for 21 CFR Part 11 compliance for secure handling of method and data files.

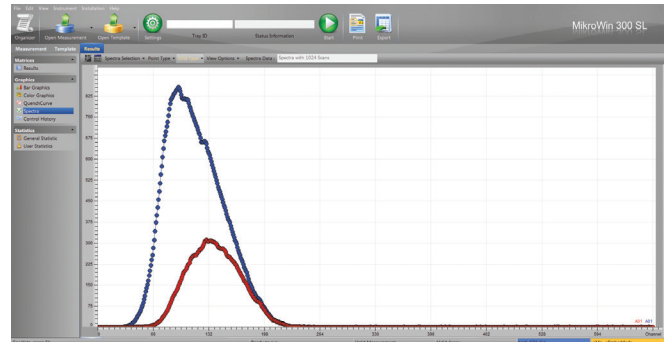


TDCR Technology

The 300 SL utilises a unique design with three photomultiplier detectors aligned 120 degrees from each other, which offers superior efficiency and counting results for both advanced research and environmental work.

In addition, the 300 SL can be used in triple coincidence mode only, which removes interference from chemiluminescence and the need to dark adapt. The counter can also be operated in dual coincidence mode using conventional standards and quench correction methods.

Quench curves can be generated and stored within the MikroWin software, which can be automatically applied or manually fitted to recalculate previous data.



Advanced spectrum analysis highlighting triple and double count spectrums for each sample.

No internal or external standard source

The TDCR method allows easy determination of sample counting efficiency without the use of any internal or external standard source of radioactivity, offering many benefits for the modern lab including no hidden disposal costs, no health hazard when servicing, and no transportation restrictions.

Optimal Lead Shield Design

A minimum of 70 mm lead in all directions provides excellent shielding and minimises instrument weight.

Lead Shutter

Reduces cosmic radiation.

Copper Shielding

Eliminates X-rays from lead shield.

Robotic Loading Arm

Removes the need for a complex elevator mechanism, preventing jams, and is easily serviceable.

No Source Required

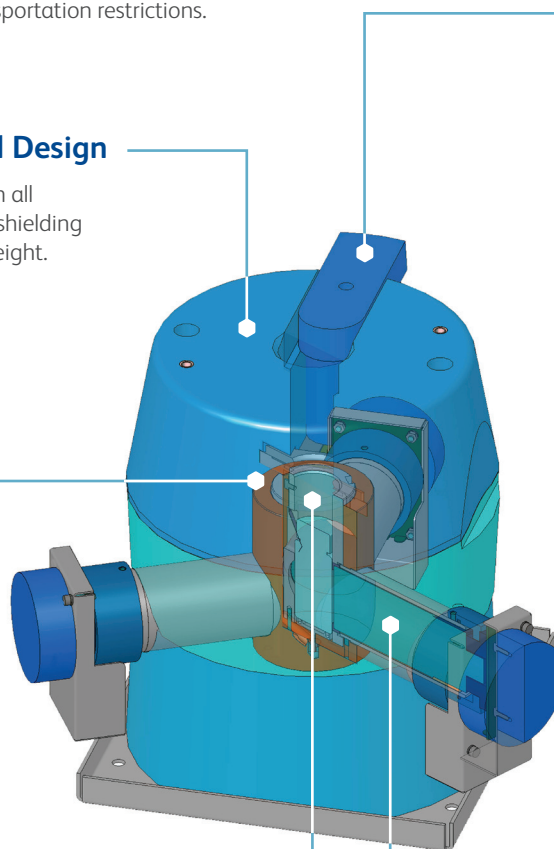
Eliminating hazards and cost without compromising results.

Measurement Chamber

Highly reflective proprietary paint maximises photon detection.

PMTs

Three PMTs detectors in coincidence mode provide optimal counting geometry and facilitate TDCR calculations.



Super Low- Level Model

Similar to the standard instrument the Hidex 300 SL super low-level scintillation counter is equipped with additional lead shielding, low level PMT detectors, and an active guard detector for further background reduction.

Ideal for ³H in water measurements, other low-level environmental monitoring, radiocarbon dating and biofuel verification.

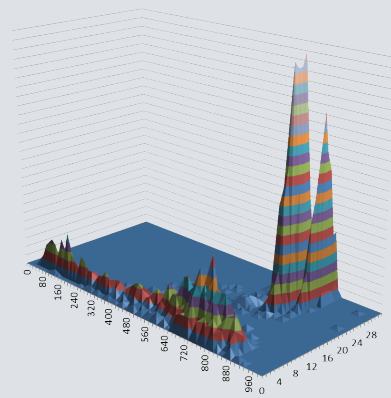
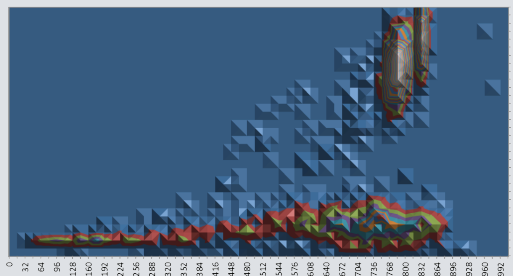
New Active Guard

The Active Guard is a separate scintillator detector which measures and subtracts real-time background radiation. The guard can be turn off for high energy samples and does not interfere with alpha/beta separation.



300 SL Options

- Alpha/Beta Separation Module
- Temperature Control Module
- Low-Level PMT Detectors
- Digital Lead Shield
- External EU-152 Standard



2D/3D spectral separation of alpha's from beta's based on pulse length.

Specifications

Size	63 (L) x 52 (W) x 68.5 (H) cm
Weight	Standard Model: 130 kg Super Low Level Model: 180 kg
Electrical Connections	100 - 240 V 50 - 60 Hz
Energy Range β's	0 - 2,000 keV
Energy Range α's	0 - 10,000 keV
Efficiency	H-3 unquenched 68 - 72% H-3 (8 mL water, 12 mL cocktail) > 30% C-14 unquenched 96 - 98% α 's (Po-210, U-234/U238, Am-241, Rn-222, Ra-226) >95%

Please refer to the Technical Specification Sheet for further information

600 SL Automatic TDCR Liquid Scintillation Counter

Designed to meet the needs of laboratories processing large quantities of samples, the new Hidex 600 SL is a high throughput automatic TDCR liquid scintillation counter.

Proven technology

The Hidex 600 SL uses the robust and unique triple-to-double coincidence ratio (TDCR) counting technology from the successful 300 SL series. Coupled with added sample capacity for up to 500 small vials (or 210 large vials), the 600 SL can process samples at a rate which will satisfy even the most demanding laboratories.

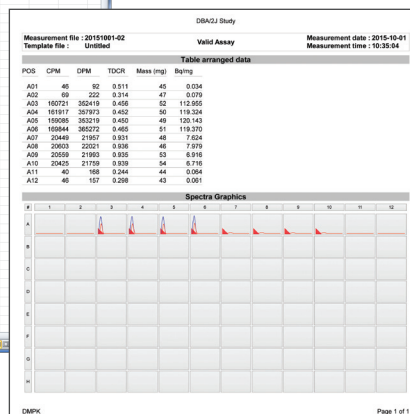
The instrument's software allows the user to work with an unlimited number of method files. Methods are barcode identified for automatic processing. Data files can be automatically exported in Excel[®], csv or text for integration into LIM systems.

Optional Features

The Hidex 600 SL is available with all the options of the standard model, such as powerful alpha/beta separation, low level PMT detectors, cooling unit, and internal Eu-152 reference source.



POS	CPM	CPM	TDCR	Missing	Bq/mg	
1	A01	46	92	0.511	43	0.834
2	A02	69	322	0.214	47	0.079
3	A03	160721	352419	0.456	52	112.955
4	A04	160721	352419	0.456	52	112.955
5	A05	159095	352319	0.455	51	113.37
6	A06	159095	352319	0.455	51	113.37
7	A07	20449	21957	0.931	49	7.624
8	A08	20449	21957	0.931	46	7.624
9	A09	20559	21959	0.930	53	8.916
10	A10	20559	21959	0.930	53	8.916
11	A11	20425	21759	0.939	54	8.716
12	A12	40	188	0.244	44	0.064
13	A13	40	188	0.244	44	0.064
14	A14	40	188	0.244	44	0.064



Specifications

Size	125 (W) x 69 (H) x 64 (D) cm
Weight	200 kg
Sample Capacity (20 mL/7 mL)	210/500
Background (CPM)	12 (H-3 in water)
Counting Efficiency (%)	H-3 >70% C-14 >96%

Please refer to the Technical Specification Sheet for further information



Service and Support

Users of our systems can benefit from our comprehensive, fully inclusive service and support.

We provide complete service and support for all of our customers to 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 incorporate years of experience in GLP system validation, detailed knowledge of our systems, together with other industry standard systems to help you meet your company's 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 compliment your internal GLP training records.

Related Products

Hidex Triathler

Liquid Scintillation Counter and Gamma Counter



Hidex Sense

Multi-technology Microplate Reader



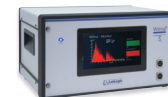
Hidex AMG

Automatic Gamma Counter



Wilma

On-line Water Monitor for Radionuclide Detection



Beta-RAM

β Radio-HPLC Flow Detector



Consumables



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

Web: www.lablogic.com

USA & Canada

LabLogic Systems, Inc.

East Pointe Park, 1040 East Brandon Blvd.
Brandon, FL 33511-5509, USA

E-mail: solutions@lablogic.com

Tel: +1-813-626-6848

Fax: +1-813-620-3708

Web: www.lablogic.com



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