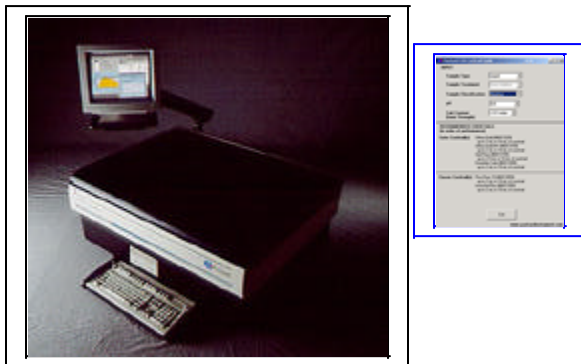


Tri-Carb Liquid Scintillation Analyzers

Introducing the New Tri-Carb LSCs with QuantaSmart™ Software for the Windows NT® Operating System!



Click on icon to download your free copy of "LSA Cocktail Guide"

We are pleased to announce the availability of three new Tri-Carb LSCs with QuantaSmart – the new interface software designed for the Windows NT® operating system. This new interface software on the new models (2900TR, 3100TR and 3170TR/SL) provides the user with a true 32 bit operating environment, with a familiar, easy to use Windows-style "folder" interface for uncomplicated data management, multitasking, security and networking. QuantaSmart is simple to use, minimizes counting errors and provides automatic, reliable, easy-to-read reports.

QuantaSmart, combined with the patented TR-LSC®¹ (Time-Resolved Liquid Scintillation Counting), and its proprietary² biodegradable, quench resistant cocktails make LSCs the optimum choice for any counting applications.

TR-LSC allows you to count samples with ten times lower background and to cut cocktail volumes in half -- without losing counting efficiency. In fact, *Surround TR-LSC*, makes LSC so sensitive that it can be used to measure ultra low levels of natural radiation. It can also be used to detect very low concentrations of metabolites with sensitivity that rivals AMS (Accelerator Mass Spectrometry).

Besides lower detection limits, this enhanced liquid scintillation counting sensitivity means reduced usage of radioactivity, less cocktail consumption and minimized mixed waste. And, unlike any other LSC, Tri-Carb's performance is calibrated and monitored with NIST traceable standards. This ensures total data compliance with Good Laboratory Procedures (GLP) and Good Automated Laboratory Procedures (GALP).

For absolute activity measurements in DPM (disintegrations per minute), Tri-Carb LSC's offer unique Direct DPM³ and AEC (Automatic Efficiency Control)⁴ methods. These techniques automatically compensate for counting efficiency losses occurring as a result of chemical and color quenching. This provides superior single and dual label DPM results over wide quench ranges.



Provides affordable automation to satisfy basic requirements, yet offers versatility to expand and meet changing application needs.

- Automatic Varisette sample changer for up to 408 large vials or 720 small vials, or a combination of large and small vials.
- Unmatched TR-LSC sensitivity in a low cost, general purpose LSC.
- Self-normalization and calibration with NIST traceable standards for verified counting stability.
- Built-in state-of-the-art computer control for fast programming and on-screen editing, screen updates, and data transfer. Available hard disk, additional floppy drives, networking and tandem processing (for up to 60 users).
- Direct DPM provides single label DPM results for most radionuclides from heavily quenched H-3 to P-32 even in the same sample cassette. Dual label DPM with AEC is optional.

The Tri-Carb 2900TR with QuantaSmart Operating Software

Equipped with QuantaSmart operating software for the Windows NT operating system, the Tri-Carb 2900TR is the price performance leader with unmatched value for multipurpose scintillation counting.

In addition to the new QuantaSmart software, the Tri-Carb 2900TR provides all the the following features:

- A powerful new integrated computer control system with 64 MB RAM, 10 GB hard disk minimum, color 17" SVGA monitor, built in CD-ROM and floppy drive
- SpectraBased automatic counting of quench standards and samples
- Automatic recalculation of quench curves based on specific assay conditions
- Password protection of assays
- On-demand availability of model number, serial number, software version number, calibration information, date and page number via electronic or printed report
- Direct DPM
- Color corrected single and dual label DPM
- Chemiluminescence detection
- Optional ULLCM (Ultra Low Level Count Mode), alpha/beta count options, Replay of historical data and IPA (Instrument Performance Assessment)

Tri-Carb 3100TR with QuantaSmart Operating Software

The Tri-Carb 3100TR with QuantaSmart for the Windows NT operating system is an extremely powerful LSC, allowing you to set-up, count and process samples faster, more accurately and more completely than any other LSC.

The Tri-Carb 3100TR builds upon the powerful framework of the Tri-Carb 2900TR and adds:

- IPA (Instrument Performance Assessment) routines to aid GLP/GALP compliance with trend analysis charts and tables
- Replay function for all historical samples
- HSCM (High Sensitivity Count Mode)
- Work Listing Positive Sample ID to automatically link sample ID with count data
- Sample PrioStat manual special function interrupt mode
- Chemiluminescence detection and correction
- Triple label DPM

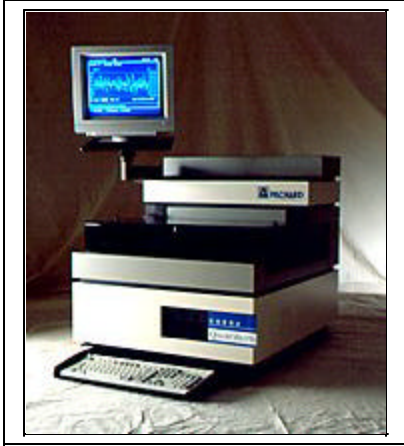
Tri-Carb 3170TR/SL with QuantaSmart Operating Software

The Tri-Carb 3170TR/SL combines the advantages of the features of the Tri-Carb 3100TR with the super low sensitivity provided by the patented *Surround TR-LSC* technology to provide outstanding performance for environmental alpha/beta applications, C14 age dating, and metabolism and toxicology studies.

Unique to the Tri-Carb 3170TR/SL are the:

- SLLCM (Super Low Level Count Mode) with BGO (Bismuth Germanium Oxide) detector guard providing super-sensitivity for counting extremely low level environmental samples
- Temperature controlled refrigeration to maintain optimal counting conditions for a wide variety of sample types

Cobra/Cobra Quantum Automatic Gamma Counters



COBRA gamma counters are the most popular and most powerful gamma counters available. Unlike any other system, they can test their own performance, validate sample results to satisfy GLP, FDA and CLIA requirements, and count samples with constant geometry through-hole detectors. An on-board computer with open PC architecture facilitates networking and provides exclusive Tandem Processing capabilities to automate data reduction and quality control.

- Automatic, cassette driven system.
- One, five or ten detectors with self-inspecting of counting performance.
- 1.5, 2, or 3 inch Constant Quanta detectors for volume independent results.
- 750 or 1000 tube capacity.
- Two to 12 counting regions; 15 to 2000 keV.
- Multichannel Analyzer (MCA) technology with live spectrum display and self-calibration.
- Total automated quality assurance: Instrument Performance Assessment (IPA) to validate instrument performance.

COBRA Quantum Option

With the COBRA Quantum option, one can run Windows applications software without interrupting the gamma counting process. A true multi-tasking environment gives you seamless access to Windows applications on either the built-in computer or on a local area network.

Cobra I

Part Numbers

Description	Part Number
20-position cassette, gray	5074199
Speed Pro cassette clips, set	7000778
Splash guard	5073198
Decontamination kit for multidetector (two needed for Model 5010, 10 detector)	7000938
Disposable vial weight caps, 100 pieces	7000823
Decontamination kit for Model 5002 and 5003	7001026
Splash guard, for Model 5002 and 5003	5073196

Cobra II/Cobra Quantum

Part Numbers

Description	Part Number
15-position cassette	5074195
20-position cassette, gray	5074199
Protocol clip kit	7001031
Cassette label kit	5074365
Splash guard (20-position only)	5073198
Splash guard (15-position multidetector only)	5074359
Splash guard, for Model 5002 and 5003 only	5074320
Vial weight caps, multidetector	7001038
Vial weight caps, single detector	7001039
Decontamination kit, single detector	7001037
Decontamination kit, multidetector (750 tube capacity; two are needed for model 5010)	7001036
Decontamination kit, multidetector (1000 tube capacity; two are needed for model 5010)	7001069
Adapter for small/microfuge tubes, 750	6000205
Full cassette adapter for 15-position cassette	5074528
Cassette carrying basket, 10 cassettes	5073576