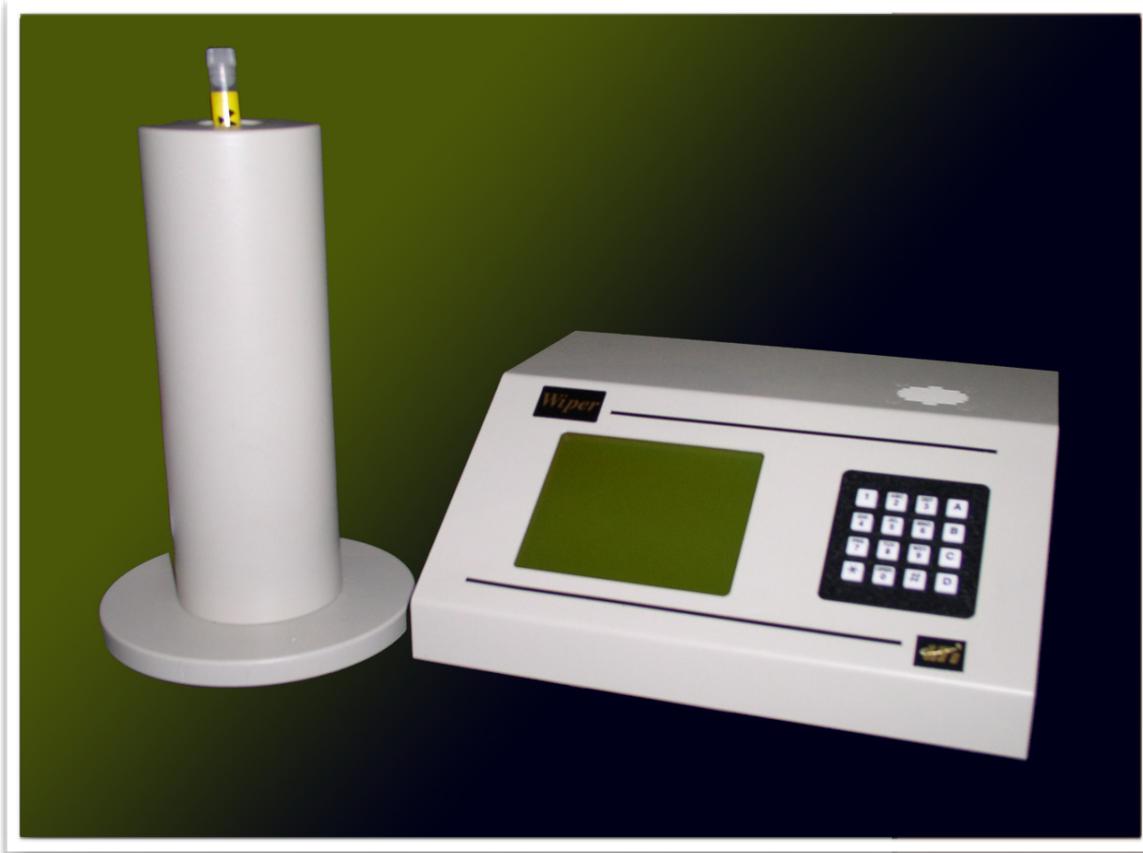


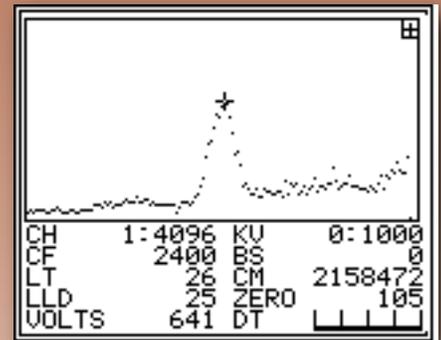
Wiper™ nPhD

A Higher Degree of Performance



The Only Well Counter *Specially* Designed for Nuclear Pharmacies and Cyclotrons.

- ★ Choose results in CPM, DPM, nCi, μ Ci, mCi, Bq, KBq or MBq
- ★ User-programmable trigger levels
- ★ Reverse decay a test run of samples automatically
- ★ Q.C. hot samples - 300,000+ CPS with excellent linearity
- ★ Exceeds NRC and state requirements
- ★ Calibrate with Cs137, Na22 or Co57
- ★ AutoSpect™ automatic DPM
- ★ Sample volume correction
- ★ *VIEW AND ANALYZE* samples with a 4096 channel MCA
- ★ Extremely flexible sample count times
- ★ Decay calculator; decay a sample to the past or future
- ★ Iterative count function, set it up and walk
- ★ Powerful, yet simple to use



Ideal for P.E.T isotopes (Na22 shown; 511 Kev peak)

Wipe Tests

The **Wiper™ nPhD** is first and foremost an advanced, easy to use, wipe counter. The Wipe Library features storage for up to 30 unique wipe tests. Whether wiping outgoing packages, or checking a fume hood, there is room to configure a location to your needs. Configuration options include setting a location name, count time, background subtract, and trigger level.

WIPE LIBRARY P1			
	NAME	TRIG	ISO
1	GENERAL	2000	FULL
2	SINK1	1850	Tc99M
3	TABLE2	1500	FULL
4	BENCH1	1000	CR51
5	TOILET	200	I131
6	FRIDGE	2000	C057
7	KT111	200	C057
8		2000	FULL

01 EDIT 00 EXIT
 02 DELETE # NEXT PAGE
 SELECT FUNCTION:

WIPE 1	
1	NAME: GENERAL
2	TRIGGER(DPM): 2000
3	COUNT TIME(MIN): 1.00
4	BACKGROUND: ENABLED
5	PRINT REPORT: ENABLED
6	SELECT ISOTOPE: FULL

SELECT FUNCTION: █

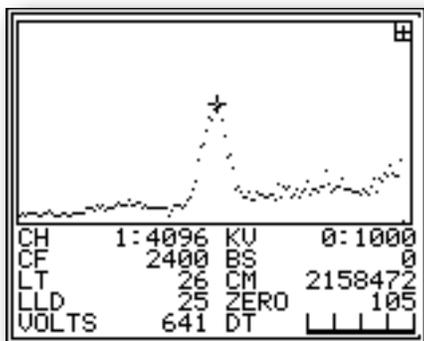
FAILED	
TRIGGER (DPM): 2000	
COUNT TIME (MIN): 1.00	
D/T: 01/01/2007 00:22:57	
NAME: GENERAL	ISO: FULL
DPM: 246149	CPM: 246149
BQ: 4102	NC: 110.9
BKG: 1410	HKV: 496
MDA: 55.0	

PRESS ANY KEY
 0 SKIP FAILED ISOTOPES

Let's face it, there is no one solution to fit all wipe test needs. That's why the **Wiper™ nPhD** allows you to choose your own Pass/Fail trigger levels and automatically calculates the MDA (minimal detectable activity). Add a printer, for comprehensive reports that will satisfy any inspector.

The Power of 4096.

When you want to *positively* identify an isotope, no wimpy 6, 64, or 256 channel analyzer will do. The **Wiper™ nPhD** has the power that professionals need, *4096 channels* for clear isotope identification.



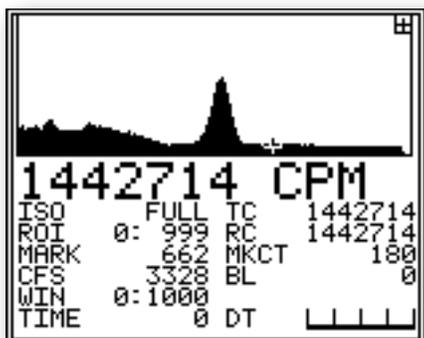
Featuring advanced MCA functions usually found only in systems many times more expensive, the **Wiper™ nPhD** is a tool, not a toy.

No other counter has Autospect™ automatic efficiency correction. With Autospect™, the **Wiper™ nPhD** can calculate absolute activity for most gamma emitting isotopes, without the need for a calibrated source.

With the **Wiper™ nPhD**, we've created more than just a counter for wipes -- we've created a tool that will make you wonder what you ever did without it . . .

Multi-Channel Analyzer

The **Wiper™ nPhD** incorporates the power of an expensive Multi-Channel Analyzer. The **Wiper™ nPhD** you can identify isotopes, find energy peaks, set a Region-of-Interest (ROI), zoom in/out, adjust the baseline, run Full Width Half Max (FWHM), correct for gamma efficiency with Autospect™, set a marker channel, and so much more.

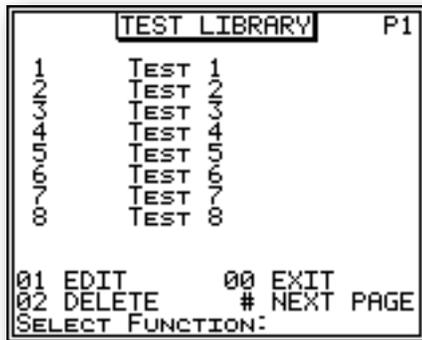


No other wipe test counter has all these features--at any price!

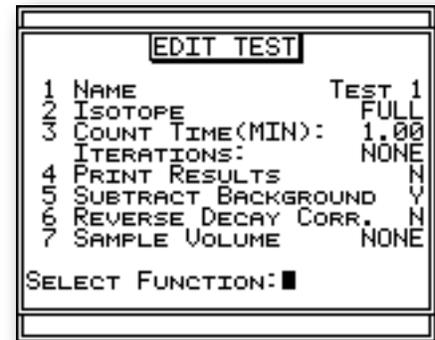
1	CLEAR DATA
2	COUNT TIME
3	SET MARKER KEV
4	SET ROI FULL
5	REMOVE ROI
6	FULL KEV RANGE
7	MRK @ ROI PEAK
8	ISOTOPE
9	AUTOSPECT
*	PAGE 2

The Test Library

The Test Library can store 16 custom tests. Count samples your way. Run your test with the default name or create a custom name, the choice is yours. The **Wiper™ nPhD** allows you to choose your result units.



Whether you prefer CPM, DPM, Curie or Becquerels the choice is yours. Count times can range from 1 second to 16 hours, pick what works for you. Do you have high background in your facility? 19mm lead shielding and channel by channel



background subtraction virtually eliminates error.

With configurable iterations, you can count a single sample multiple times without user intervention. Simply set the count time, the number of iterations and walk away. You can choose up to 99 iterations per sample. With count rates over 18,000,000 CPM, you can screen the hottest samples.

Reverse Decay Correction

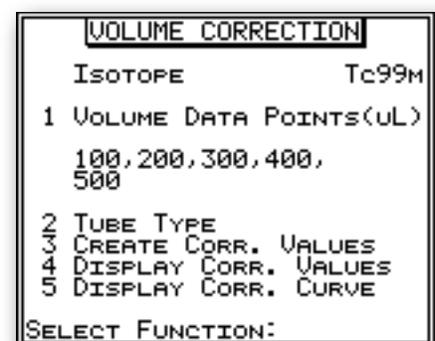
Another important feature of the **Wiper™ nPhD** is reverse decay correction. When you use reverse decay correction, you can count multiple samples in a batch without fear of error associated with fast decay isotopes. Each sample is automatically decay corrected to the time of the first sample.

Never again do you have the worry of errors introduced by short lived isotopes. Put away your calculator and charts, the work is done automatically.

Volume Correction

Sample volume count errors are a thing of the past. Do you count samples with different volumes? With the **Wiper™ nPhD** you can configure a test to use a volume correction curve that will correct the efficiency at different volumes.

The **Wiper™ nPhD** can correct for any isotope. No two isotopes are identical. By allowing you to pipet your own samples, the volume correction curve will be tailored to your detector, your sample tube type, your isotope and your specific volume range.



No more guessing, with the **Wiper™ nPhD** you get accurate results, just the way you need them.

Since 1983, LTI has been a leading gamma counter manufacturer. We've earned a worldwide reputation for the quality, accuracy and day to day reliability of our products. Nuclear medicine departments across the country use our Wiper™ and Multi-Wiper™ wipe counters.

The **Wiper™ nPhD** has been designed specifically for the Nuclear Pharmacy. There is no better combination of features, ease of use, and economical price anywhere.

```
DECAY CALCULATOR
I125 SAMPLE
DT: 06/21/2010 10:45:31
ACT: 95.20 nCi
CON: 0.381 nCi/UL

I125 TARGET
1 DT: 06/28/2010 10:00:00
  ACT: 87.77 nCi
  CON: 0.351 nCi/UL
00 EXIT
SELECT FUNCTION:
```

```
DECAY DATE/TIME

CURRENT 07/15/2010
ENTER MM/DD/YYYY

CURRENT 08:00:00
ENTER HH:MM:SS
█

# EXIT
```

```
DECAY ACTIVITY

CURRENT uCi:
1.0000

NEW uCi:
█
```

Decay Calculator

Do you ever need to know how much activity will be in a sample in 4 hours? How about when a sample will be at a specific activity?

Would you like to measure the concentration of an isotope in solution? Would it be helpful if you knew what that concentration would be next week? With the decay calculator in the **Wiper™ nPhD**, you can.

Count a sample or use the keypad to enter the values, provide a target date/time--it's that simple.

If you have a target activity, but need to know the target date, you can enter the activity, i.e. 1mCi, and **Wiper™ nPhD** will tell you the date and time your sample will be ready.

Customer Support

LTI's customer service is ready for you 24/7. Call our telephone support staff. Access training videos, FAQ's and helpful hints on a special customer support website. Send us a descriptive email or send us a fax.

Customer support is key at LTI, in fact we still service and support instruments we shipped back in 1985.

For more information, or to ORDER your **Wiper™ nPhD**, contact LTI or your local LTI distributor today.

SPECIFICATIONS:

Detector

Well-type NaI(tl) crystal coupled to a high gain PMT

Analyzer

4096 channels MCA, 0 - 1MEV range, automatic dead time correction. Count rates over 18M CPM

Well Liner

Removable plastic well liner prevents detector contamination

Display

LED backlit 4.5" LCD (11.25cm)

Shielding

0.75" (19mm) virgin lead shielding. Automatic Background Subtraction.

Output

Dual serial ports - output to an optional serial printer and your Mac/PC/Linux/LIS

Physical Specifications

Base unit - 10.5" (27 cm) W x 8.5" (22 cm) D x 4.75" (12 cm) H
Detector tower- 6" (15cm) D x 10" (25cm)

Weight

32 lbs (14.5 kg)

Power

100-240VAC 50-60 hz

Customer Support

Via - Web, Email, Telephone, Fax



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