SMALL ANIMAL WHOLE BODY COUNTER
FOR LIVE ANIMALS
Model ~ LIVE-1

FEATURES:
- SEES GAMMAS & HIGH ENERGY BETAS
- DUAL CHANNEL ANALYZER
- DUAL NaI DETECTORS
- REPEATABLE COUNTING GEOMETRY READINGS WITHOUT SACRIFICING THE ANIMAL.

ELECTRONICS: LAM-SCA-DSC
- VERSATILE AC & RECHARGEABLE BATTERY
- THREE PRESETTABLE WINDOW POSITIONS
- SWITCH SELECTABLE
- SIX DECADES
- DUAL SINGLE CHANNEL ANALYZER
- 2 INDEPENDENT DETCTOR INPUTS
- COINCIDENCE CIRCUIT SIGNALS IF BOTH DETECTORS SEE A PULSE AT THE SAME TIME
- OPTIONAL: LARGER ANIMAL CHAMBER

APPLICATION:
Ideal for laboratory use.
Small live animals can be scanned, maintaining a repeatable counting geometry without harming the animal.

Description:
- 12” diameter cylinder with horizontal axis roughly 30” long, and mounted to a base.
- 6” dia x 6” long animal chamber with ventilation ports.
- A drawer in the side of shield provides a 4 3/4” x 4” opening to insert and remove the animal.
- Chamber has a removable stainless steel liner ease of cleaning,
- A removable grating is provided for the animal to stand on and for the droppings to fall through.
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COUNTING CHAMBERS
• The thin metal windows on the two detectors are protected by metal grills with a high percentage of open area.
• Each detector is surrounded by 2” of lead on all sides.
• Recessed protected detectors and to minimize effects of animal position on the count rate.

DETECTORS
- Two each 3” diameter x 1” thick NaI crystals with a thin window 0.020” (0.5mm) to accept low energy radiation such as that from I-125 as well as higher energies.
- Each detector is optically coupled via a light pipe to a high quality photomultiplier tube.
- Counting efficiencies excluding geometry are approximately:
  - Approx. 36% for Zn-65 at 1.1MeV X-rays.
  - Approx. 36% for Fe-59 at 1.1 & 1.3MeV Gammas.
  - Approx. 85% for Tc-99m at 0.14MeV Gammas.

ELECTRONICS: LAM-SCA-DSC
- Precision automatic lab scaler incorporating a dual single channel analyzer keeps background count rate low.
- The dual single channel analyzer also allows the count of one isotope to the exclusion of another.

OPTIONS: (Available upon Request)
- Larger animal chamber and loading port available upon request.
- Other window material and thicknesses.
- Thinner or thicker lead (Pb) shield.