

Gamma Products, Inc.

7730 West 114th Place
Palos Hills, Illinois 60465

Telephone: (708) 974-4100
Fax: (708) 974-0071

Email: sales@gammaproducts.com



The Traveler

Gamma Products, Inc. is proud to announce *The Traveler* its newest product in the α/β counting line.

The Traveler is a complete low background system, weighing less than 500 lbs. This new design provides the maximum portability to place this system on a table top, stand or install *The Traveler* in a mobile lab. This specially cast lead cave doesn't allow for shifting bricks.

The system comes in a manual or automatic configuration (the automatic can accommodate 30, 40, or 50 samples). *The Traveler* is run from a personal computer, included with the system. Background counts are the same as for the console α/β systems.



PERFORMANCE SPECIFICATIONS

DETECTOR BACKGROUND

2.25" detector <1.5 cpm α + β dual wire

SAMPLE DETECTOR EFFICIENCY

80 μ g/cm² window
≥30% for ¹⁴C
≥45% for ⁹⁰Sr
≥35% for ²¹⁰Po

DETECTOR EFFICIENCY

>99% Cosmic detection

DETECTOR UNIFORMITY

±5% over 90% of window

DETECTOR PLATEAU

²¹⁰Po <1.5% slope/100V; 800V plateau
⁹⁰Sr <1.5% slope/100V; 200V plateau

CROSSTALK (α/β mode)

For a 2.25 inch detector 80 μ g window, using ⁹⁰Sr and ²¹⁰Po with the system adjusted for specified ⁹⁰Sr efficiency and 1% crosstalk into the α channel there will be <3% ²¹⁰Po into the β channel.

SAMPLE COUNT RATE

500,000 cpm dead time corrected
<1.5% dead time loss

SAMPLE CHANGE TIME (Auto Systems)

Typically 5-7 sec. Motor speeds are software adjustable.

TIME BASE ACCURACY

Better than .002% crystal based derived from system MCA.

COUNT TIME

In minutes and seconds to 9999 min 59 sec.

GAMMA OPTION

2 x 2 inch NaI detector under the planchet in the counting position. <180 cpm 100 KeV to 2 MeV. (3 x 3 optionally available)

SYSTEM POWER

115v 60 Hz 1 ϕ
Specify requirements for non US

DIMENSIONS

16" X 25" X 24"
W D H

Total Weight 430 LB plus PC and printer

