

ASC-950-DP-G

With Guard Option

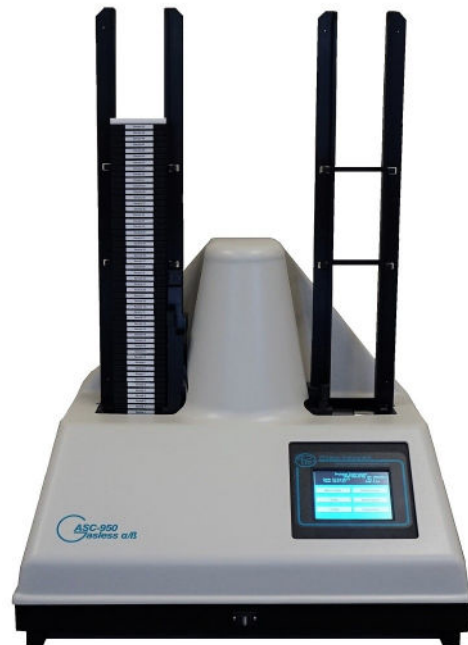


Overview

The ASC-950-DP-G is a high-speed counter equipped with a dual phosphor scintillator type detector that supports gasless operation and easy portability. Cosmic background radiation reduction is possible with the optional Anti-Coincidence Guard Detector. DUO Express software allows for easy system programming, data management, and control chart maintenance. Multiple instruments can be connected for user convenience. This sample counter is ideal for standard Health Physics applications such as smears and air filters.

Features

- ⇒ Automatic Sample Changer
- ⇒ Dual Phosphor Scintillator Detector
- ⇒ Touch Screen Interface
- ⇒ Lightweight Portability
- ⇒ 2 in. (5.1 cm) Standard Planchet Diameter
- ⇒ Radon Compensation for Air Filters
- ⇒ Optional Guard Detector
- ⇒ Optional Lead Shielding
- ⇒ 50 Sample Capacity (100 Optional)
- ⇒ Gross Alpha/Beta Counter



Protean Instrument

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ASC-950-DP-G

Optimized for Lower Energy Betas

Typical Efficiency				
Source	Top	1/8" Bottom	1/4" Bottom	5/16" Bottom
Pu-239	35%	30%	24%	22%
SrY-90	47%	41%	36%	35%
Tc-99	26%	24%	20%	19%

Background				
Condition	Warranted (cpm)		Typical (cpm)	
	Alpha	Beta	Alpha	Beta
With Lead & Guard	<0.2	<25	0.05	13
With Guard No Lead	<0.2	<30	0.05	23
With Lead No Guard	<0.2	<55	0.05	41
No Guard No Lead	<0.2	<65	0.06	55

Optimized for Higher Energy Betas

Typical Efficiency				
Source	Top	1/8" Bottom	1/4" Bottom	5/16" Bottom
Pu-239	34%	30%	24%	21%
SrY-90	45%	40%	35%	34%
Tc-99	24%	21%	19%	18%

Background				
Condition	Warranted (cpm)		Typical (cpm)	
	Alpha	Beta	Alpha	Beta
With Lead & Guard	<0.2	<25	0.05	12
With Guard No Lead	<0.2	<30	0.03	15
With Lead No Guard	<0.2	<55	0.08	35
No Guard No Lead	<0.2	<65	0.06	40

Instrument Specifications	
Category	Specifications
Sample Size	2 Inch Diameter (5.1 cm)
Capacity	50 (100 optional)
Depth	1/8, 1/4, or 5/16 Inch
Data Export	USB Flash Drive, USB PIC Link
Interface	Touch Screen
Count Modes	Alpha Only, Alpha/Beta Simultaneously
Power	110-240 Vac, 50-60 Hz Input
Window	Aluminized, 80 µg/cm ²
Operating Temp	10°C to 40°C (50°F to 104°F)

Instrument Specifications	
Dimension	Size
Height*	36 Inches
Width	23.5 Inches
Depth	23.5 Inches
Weight*	110 lb
Guard Weight	5 lb
Shield Weight	50 lb

Instrument Options	
Option	Order Part Number
1/8 Inch Planchet	700-0007
1/4 Inch Planchet	700-0008
5/16 Inch Planchet	700-0009
Carrier Inserts, Set of 50, 1/8 in., 1/4 in., or 5/16 in.	140-0305
Lead Ring	120-0010-ASC
Cosmic Guard Detector	110-1073
Mobile Cart	120-0011
Standard Carrier Set (1-50 + QC + Routine)	120-0033-ASC
Carrier Set of 50 (Any Sequence)	120-0034-ASC
100 Sample Option	120-0036-ASC
50 Sample Stack, Stand, and Carrier Set	120-0075-ASC-50
100 Sample Stack, Stand, and Carrier Set	120-0075-ASC-100
Extended Warranty	108-0001
Service Contract	Service Contract
Installation	Install
Computer System	Computer
Simplicity Software Package	Simplicity

- Efficiency determined using 2 inch NIST traceable distributed source.
- Environmental background reads 8 µR/hr.
- Provided insert size can be altered at time of order.
- All specifications are subject to change without notice.
- ROHS compliant (lead by exemption)
- Alpha then Beta count mode available with Simplicity software.
- Optimization performed by adjusting instrument voltage.

Accessories Supplied	
Accessory	Quantity
PIC Link Cable	1
1/8 Inch Inserts	55
Standard Carrier Set	1

*100 Sample option adds approx. 18 inches in height and 10 pounds in weight.