

Plutonium Air Monitor Quick Response

Model: Series - FAST-CAM-5 and FAST-CAM-5T

Description

- A ZnS (Ag) detector and Beta Scintillator which allows separate and simultaneous Alpha and Beta readouts.
- Provides integrated exposure information and has pulse output available
- Measures Pu-239 or other alpha emitters in the presence of significant or varying Radon-Thoron background.
- Count rate is read on the front panel digital display
- 6-digit display for both rate and integrated information.
- User selectable operating modes: gross count, area of interest counts - pulse height analyzing (PHA), or PHA with background subtract (PHA-SUB).
- Settable alarm point over the entire range with adjustable alarm delay to avoid short term transient alarms
- 35 CFM air pump
- Quick change 4" dia filter.
- A box of 20 pc 4" dia filters and user's manual are included
- A complete system. Table top model **Fast-Cam-5T** may be expanded according to the needs of the user utilizing the FM-9 series modules.

Specifications

Detection:	ALARM in 10 sec at 2.7 DAC-HR prior to exposure of 74Bq/M ³ .
PROBLEM:	Most Pu monitors take too long to detect dangerous airborne levels and therefore do not provide personnel timely warning and opportunity to evacuate.
SOLUTION:	In case of a spill or leak that produces air borne concentration of 74Bq/m ³ the Fast-Cam-5 and Fast-Cam-5T will alarm quickly, in 10 seconds limiting worker exposure to 2.7 DAC-HR.
Counting Efficiency:	20 percent of 2 pi with wide window setting and 4" dia Pu-239 source in the filter holder.
Detector:	ZnS(Ag) – Optional: dual phosphor with a 5" dia photo-multiplier tube and a typical Alpha resolution of 60 KeV maximum.
Response Time:	1 sec. to 24 hrs.

Detectors

Alpha	ZnS (Ag)
Sensitive	5" dia
Efficiency, typical:	Pu-239 4.0 Bq/cps, 25.0%
Beta	plastic scintillator .020"
PM Tube	5" dia
Efficiency, Typical:	Tc-99 11.0 Bq/cps, 9.1%
Alpha cross talk into Beta channel	2.0%
Beta cross talk into Alpha channel	0.08%
Background (unshielded)	
Alpha	5 cpm
Beta	200 cpm



**TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY**

7051 ETON AVENUE, CANOGA PARK, CA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@USNUCLEARCORP.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF



USNUCLEARCORP

OTCQB-UCLC