



MEDICAL INDUSTRY

RADIATION DETECTION & MONITOR INSTRUMENT SYSTEMS



DEPARTMENT LOCATIONS - ALL

PATIENT AREAS	STAFF AREAS	HEALTH PHYSICS	FACILITY AREAS
IMAGING & DIAGNOSTIC RADIOLOGY	IMAGING & DIAGNOSTIC RADIOLOGY	RSO	STRUCTURE
Positron (PET)	Personnel in contact with radiation	Laundry	Water: Drinking; Inlet; Outlet/Drains
Xenon-Lung Studies	Blood Lab & Clinical	Package	Building
Thyroid Studies	Radiopharmacy	Trash	Entrance/Exit/Hallway
TREATMENT & DIAGNOSTIC RADIOLOGY	PATIENT INTAKE	RESEARCH	
Nuclear Medicine	Emergency Room	Animal Labs	
Oncology	First Responders	Bio Tech Labs	
Radiosurgery		Human Clinical Trials	
Accelerators			

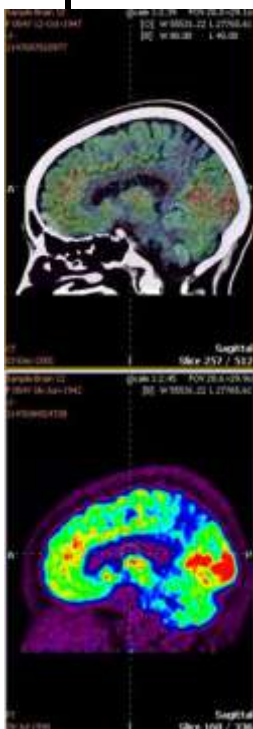
MONITOR TYPES & ISOTOPES

AIR	WATER	SURVEY	SAMPLE	SURFACE	PORTAL	PACKAGE	AREA
PET							
Iodine							
Xenon							
Particulates			Particulates	Particulates			
Alpha, Beta, Gamma	Alpha, Beta, Gamma	Alpha, Beta, Gamma	Alpha, Beta, Gamma	Alpha, Beta, Gamma	Beta, Gamma	Beta, Gamma	Beta, Gamma
Noble Gas							
Tritium	Tritium	Tritium	Tritium	Tritium			
C-14	C-14	C-14					
Radon	Radon	Radon					
Rad-Chem-Bio	Rad-Chem-Bio						

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DIAGNOSTIC AREAS

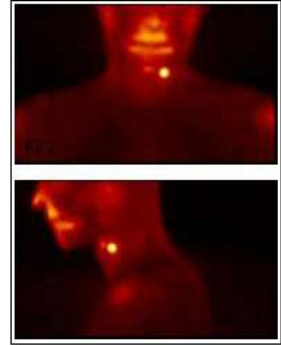


IMAGING & DIAGNOSTIC RADIOLOGY	MODEL	PORTABLE	DESCRIPTION
	<u>TBM-ICs</u>	Yes	Ion chambers to detect Alpha, Beta, and Gamma
	<u>FM-9W</u>	No	-Multi-Channel -Stop Entry/Exit of - Radioactive Items -(50 Detector Models) -Alarms-Relay Control can lock doors, trigger a siren, autodialer, and/or email
	<u>P-8-Neon-A</u>	Yes	8 GM tubes with indicator light for locating X-Ray leak or radioactivity. Quick Sweep Detector
	<u>TBM-IC-XRAY</u>	Yes	X-Ray compliance test meter with built-in detector for TVs, X-Ray machines, luggage, and people.
	<u>TBM-IV-MarkV</u>	Yes	Most Popular Ion Chamber-0.1 to 10,000 mR/hr dose rate plus integrate.
	<u>TBM-IC-AJI</u>	Yes	Newest model! Integrated Ion Chamber. The Smart rate plus dose digital readout lightweight Ion Chamber. Most stable readout available. Rate range is .1 μ R/h to 9.999 R/h. Dose range is .01 μ R/h to 1 R/h. Displays dose and Doserate.
POSITRON (PET)	<u>PET-CAM-511</u>	Yes	Complete air monitoring system for PET (Positron Emission Tomography) facilities.
	<u>FM-9ABNI</u>	Yes	Iodine & Beta-Gamma with Flow Meter.
	<u>CHICA-10</u>	Yes	Charcoal cartfidges 10 pack, 2 1/2" x 1" thick, metal cased. Use with FM-9ABNI.
	<u>PNS-20</u>	Yes	Slow Neutron Scintillator
	<u>TBM-3SR-D</u>	Yes	Pancake Alpha, Beta, Gamma Surface monitor, 1-500, 5,000, 50,000 cpm with sonalert and volume control, ruggedized meter.

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DIAGNOSTIC AREAS



IMAGING & DIAGNOSTIC RADIOLOGY	MODEL	PORTABLE	DESCRIPTION
Xenon-Lung Studies	FM-9XE-NG	No	Xenon monitor; complete system including pump. Digital with built in integrator.
Thyroid Studies	FR-PIB	Yes	Total airborne radiation activity
	FR-PII	Yes	Iodine air monitor
	SC-3	Yes	Table stand with collimator for Thyroid Check System (Use with FM-9ABNI)
	FM-9ABNI	Yes	Portable Iodine and Beta-Gamma with Flow Meter.
	CHICA-10	Yes	Charcoal cartfidges 10 pack, 2 1/2" x 1" thick, metal cased. Use with FM-9ABNI.

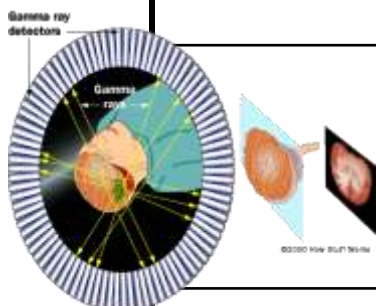


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DIAGNOSTIC & TREATMENT AREAS


TREATMENT & DIAGNOSTIC RADIOLOGY	MODEL	PORTABLE	DESCRIPTION
Nuclear Medicine	FM-9-ABGN	Yes	Alpha, Beta-Gamma, Neutron digital air particulate monitor with alarm and air mover.
	TBM-3SR-D	Yes	Pancake Alpha, Beta, Gamma Surface monitor, 1-500, 5,000, 50,000 cpm with sonalert and volume control, ruggedized meter.
	TBM-28	Yes	A 1.2 meter wand with separable, small, 3-range ratemeter. Reads out in counts per minute. Thin pancake wide face GM detector at end of long arm to see Alpha, Beta, Gamma. Tested to 100 R/hr. Sonalert (audible) with volume control.
	SSS-22P	Yes	Liquid scintillation for all isotopes including Tritium and C-14.
	LAM-10	Yes	AC-DC radiation detector. Settable audio alarm, read out units, recorder output.
	STG-4	Yes	Low energy gamma scintillation system.
	HY-3-9	Yes	Chromatogram scanning counter, Gamma.
	TBM-6SP-ST	Yes	Survey monitor with PGS-3 external scintillator probe and internal GM pancake probe.



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TREATMENT AREAS

TREATMENT AREAS	MODEL	PORTABLE	DESCRIPTION
Oncology	TBM-ICs	Yes	Ion chambers to detect Alpha, Beta, and Gamma
	TBM-IC-Pulse-X	Yes	Measures integrated Total Dose from pulsed x-ray machines over a wide range of pulse widths and repetition rates.
	P-8-Neon-A	Yes	8 GM tubes with indicator light for locating X-Ray leak or radioactivity. Quick Sweep Detector
Radiosurgery	TBM-IC-XRAY	Yes	X-Ray compliance test meter with built-in detector for TVs, X-Ray machines, luggage, and people.
 <p>GAMMA KNIFE RADIOSURGERY Edited by David Mathies</p>	TBM-IV-MarkV	Yes	Most Popular Ion Chamber-0.1 to 10,000 mR/hr dose rate plus integrate.
	TBM-IC-AJI	Yes	Newest model! Integrated Ion Chamber. The Smart rate plus dose digital readout lightweight Ion Chamber. Most stable readout available. Rate range is .1 µR/h to 9.999 R/h. Dose range is .01 µR/h to 1 R/h. Displays dose and Doserate.
	TBM-IC-Pulse-X	Yes	Measures integrated Total Dose from pulsed x-ray machines over a wide range of pulse widths and repetition rates.
Accelerators	PET-CAM-511	No	Complete air monitoring system for PET facilities.
	PNS-20	Yes	Slow Neutron Scintillator
	FUJI NSN3	Yes	Neutron Survey meter.
	PUG-7N	Yes	Fast/Slow neutron monitor, includes slow neutron scintillation probe (PNS-20) plus Moderator MO-1 and external connector for GM probe or scintillator.

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STAFF AREAS


IMAGING & DIAGNOSTIC RADIOLOGY	MODEL	PORTABLE	DESCRIPTION
Personnel in Contact with Radiation	PDA-200+	Yes	Alarming pocket digital dosimeter. Blood
Blood Lab & Clinical	HY-3-9	Yes	Chromatogram scanning counter, Gamma.
	SSS-22LAB	Yes	Highest sensitivity for detecting and quantitating beta emitters, liquid scintillation flour counting each individual event with photomultiplier counter.
	TBM-3SR-D	Yes	Pancake Alpha, Beta, Gamma Surface monitor, 1-500, 5,000, 50,000 cpm with sonalert and volume control, ruggedized meter.
	TBM-6SP	Yes	Survey monitor with PGS-3T external scintillator probe and internal GM Pancake probe.
	TBM-6SP-ST	Yes	Survey monitor with PGS-3T external scintillator probe and internal GM Pancake probe.
	TBM-15C	Yes	Wide range frisker with P-15 probe.
	PGS-3LW	Yes	Low Energy Gamma Scintillation Probe with a well.
	TBM-15D	Yes	Digital surface frisker with P-15 probe.



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STAFF AREAS

IMAGING & DIAGNOSTIC RADIOLOGY	MODEL	PORTABLE	DESCRIPTION
	TBM-28	Yes	A 1.2 meter wand with separable, small, 3-range ratemeter. Reads out in counts per minute. Thin pancake wide face GM detector at end of long arm to see Alpha, Beta, Gamma. Tested to 100 R/hr. Sonalert (audible) with volume control.
	FM-9-ABNI	Yes	Iodine & Beta-Gamma with Flow meter.
	LEM-6G	Yes	Gross Beta-Gamma. Complete system. Liquid effluent monitor. Use with underwater scintillation detector PWS-18 and FML-5BR alarming recording monitor.
	TBM-6SP	Yes	Survey monitor with PGS-3T external scintillator probe and internal GM Pancake probe.
	FM-9-ABGN	Yes	Alpha, Beta-Gamma, Neutron digital air particulate monitor with alarm and air mover.
	FAST-CAM-5	Yes	Fast acting Plutonium, Alpha, Beta, Air monitor.
	MicroBAM-3ZL-2	Yes	Portable BAM includes laptop display, software, with 2 channels.
	FM-9W	No	Glove Box monitor for flume hood – Low Level Radioactivity
MicroBAM-3ZL-3	Yes	Portable BAM includes laptop display, software, with 3 channels.	



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RESEARCH

Animal Research BioTech Lab Human Clinical Trials	MODEL	PORTABLE	DESCRIPTION
	<u>LIVE-1-9</u>	No	Whole animal body counter.
	<u>PTG-9</u>	Yes	Tritium monitor for airborne Tritium.
	<u>FM-9-ABGN</u>	Yes	Alpha, Beta-Gamma, Neutron digital air particulate monitor with alarm and air mover.
	<u>FS-5T</u>	Yes	Table top or Portable Analyzing Scaler Ratemeter. 3 settable switch selectable energy windows, continuous adjustable alarm, autocycle and computer/printer interface capability.
	<u>SSS-22P</u>	Yes	Liquid scintillation for all isotopes including Tritium and C-14.
	<u>LAM-10</u>	Yes	AC-DC radiation detector. Settable audio alarm, read out units, recorder output.
	<u>MicroBAM-3ZL-2</u>	Yes	Portable BAM includes laptop display, software, with 2 channels.
	<u>MicroBAM-3ZL-3</u>	Yes	Portable BAM includes laptop display, software, with 3 channels.
	<u>OTC Model 347</u>	No	Line operated Tritium monitor balanced chamber, wide range portable monitor for airborne Tritium.
	<u>OTC Model 400</u>	Yes	Portable gamma compensated with serial data output and user recalibration.
	<u>SF-TF6</u>	Yes	Speedy ferret-low background Tritium sample counter.



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RESEARCH


Animal Research BioTech Lab Human Clinical Trials	MODEL	PORTABLE	DESCRIPTION
	HY-3-9	Yes	Chromatogram scanning counter, Gamma.
	FM-9W	No	Glove Box monitor for flume hood – Low Level Radioactivity
	CP-MU-1000	No	Hot Cell monitor for flume hood – High Level Radioactivity
	TBM-15C	Yes	Wide range frisker with P-15 probe.
	TBM-15D	Yes	Digital surface frisker with P-15 probe.



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FACILITY

STRUCTURE	MODEL	PORTABLE	DESCRIPTION
Water	NEXGEN-SSS	No	Complete Radiation Water Utilities Monitor – Real-time continuous – integrate into facility computer center.
	UNITECT	No	Complete Radiation-Chem-Bio Water Utilities Monitor – Real-time continuous – integrate into facility computer center.
Water Inlet Pipes	NexBeta-ABG	No	Water inlet pipe, Real-time continuous water monitor.
Water Outlet Pipes & Drains	LEM-6G	Yes	Gross Beta-Gamma. Complete system. Liquid effluent monitor. Use with underwater scintillation detector PWS-18 and FML-5BR alarming recording monitor.
	MEDA-MCA	Yes	Quick alert for Alpha, Beta, Gamma in water.
Building	PTG-9RN	Yes	Radon Monitor for interior air measurement.
	UNITECT-AIR	No	Radiation-Chem-Bio airborne hazards. – Real-time continuous – integrate into facility computer center.
Entrance/Exit Hallway	PPVM-TA	Yes	Personnel Monitor
	LAM-10/PGS-3	Yes	Exit, vehicle, Laundry, personnel, mail monitor with 1"x1" scintillation probe.
	LAM-10/PGS-3L	Yes	Exit, vehicle, Laundry, personnel, mail monitor with 2"x2" scintillation probe.
	LAM-10D/PGS-3L	Yes	Digital alarm rate meter for Exit, vehicle, Laundry, personnel, mail monitor with 2"x2" scintillation probe.

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HEALTH PHYSICS


	MODEL	PORTABLE	DESCRIPTION
RSO	<u>TBM-3SR-D</u>	Yes	Pancake Alpha, Beta, Gamma Surface monitor, 1-500, 5,000, 50,000 cpm with sonalert and volume control, ruggedized meter.
	<u>TBM-6SP</u>	Yes	Survey monitor with PGS-3T external scintillator probe and internal GM Pancake probe.
	<u>TBM-6SP-ST</u>	Yes	Survey monitor with PGS-3T external scintillator probe and internal GM Pancake probe.
	<u>TBM-15C</u>	Yes	Wide range frisker with P-15 probe.
	<u>TBM-15D</u>	Yes	Digital surface frisker with P-15 probe.
Laundry	<u>LIM-23C-55</u>	No	Two belt Laundry Monitor, 4 detectors, 2 conveyor belts.
	<u>LIM-OH</u>	No	Hanging Track Laundry Monitor. Sorts clean and contaminated laundry.
	<u>PPVM-TA</u>	Yes	Personnel Monitor
	<u>LAM-10/PGS-3</u>	Yes	Exit, vehicle, Laundry, personnel, mail monitor with 1"x1" scintillation probe.
	<u>LAM-10/PGS-3L</u>	Yes	Exit, vehicle, Laundry, personnel, mail monitor with 2"x2" scintillation probe.
	<u>LAM-10D/PGS-3L</u>	Yes	Digital alarm rate meter for Exit, vehicle, Laundry, personnel, mail monitor with 2"x2" scintillation probe.



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HEALTH PHYSICS

	MODEL	PORTABLE	DESCRIPTION
	TBM-3SR-D	Yes	Pancake Alpha, Beta, Gamma Surface monitor, 1-500, 5,000, 50,000 cpm with sonalert and volume control, ruggedized meter.
	PIM-23A	No	Package monitor. Dual automatic conveyor belts for sorting clean and contaminated packages.
	PIM-23B	No	Package monitor. Conveyor belt for sorting clean and contaminated packages.
	RA-UBG	Yes	Beta-Gamma Uranium check source.
	P-1212	Yes	Alpha, Beta, Gamma, mica end window, 0.4 cm diameter spot detector.
	FS-5T	Yes	Table top or Portable Analyzing Scaler Ratemeter. 3 settable switch selectable energy windows , continuous adjustable alarm, autcycle and computer/printer interface.
	STB-3	Yes	Beta-Gamma or alpha drawer type 2"counter wipe or planchette incorporates 1"lead shielded.
	STB-4T	Yes	Beta-Gamma drawer type usaes PGS-3 NaI (TI) scintillator 1"lead shielded. Thin window, thin crystal probe PGS-3.
	PNS-20	Yes	Slow Neutron Scintillator
	STB-TF-6	Yes	Tritium Wipe Counter
	LAM-10/PGS-3	Yes	Exit, vehicle, Laundry, personnel, mail monitor with 1"x1" scintillation probe.
	LAM-10/PGS-3L	Yes	Exit, vehicle, Laundry, personnel, mail monitor with 2"x2" scintillation probe.
	PNS-20	Yes	Slow Neutron Scintillator
	LAM-10D/PGS-3L	Yes	Digital alarm rate meter for Exit, vehicle, Laundry, personnel, mail monitor with 2"x2" scintillation probe.

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HEALTH PHYSICS



	MODEL	PORTABLE	DESCRIPTION
Trash	TBM-3SR-D	Yes	Pancake Alpha, Beta, Gamma Surface monitor, 1-500, 5,000, 50,000 cpm with sonalert and volume control, ruggedized meter.
	TBM-6SP	Yes	Survey monitor with PGS-3T external scintillator probe and internal GM Pancake probe.
	LAM-10/PGS-3	Yes	Exit, vehicle, laundry, personnel, mail monitor with 1"x1" scintillation probe.
	LAM-10/PGS-3L	Yes	Exit, vehicle, laundry, personnel, mail monitor with 2"x2" scintillation probe.
	LAM-10D/PGS-3L	Yes	Digital alarm rate meter for Exit, vehicle, laundry, personnel, mail monitor with 2"x2" scintillation probe.



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MEDICAL HAZ-MAT

	MODEL	PORTABLE	DESCRIPTION
	<u>MEDA-SP</u>	Yes	Portable submersible water detector, Alpha, Beta, Gamma.
	<u>MEDA-MCA</u>	Yes	Quick alert for Alpha, Beta, Gamma in water.
	<u>TBM-6SPE</u>	Yes	Emergency Radiation detection identification kit.
	<u>SSS-22P</u>	Yes	Liquid scintillation for all isotopes including low levels of Tritium and C-14..
	<u>FL-9000</u>	No	Sensitive analyzing food monitor.
	<u>P-1212</u>	Yes	Alpha, Beta, Gamma mica end window, 0.4 cm diameter spot detector.
	<u>TBM-6U-SV</u>	Yes	MicroOR TBM
	<u>FAST-CAM-5</u>	Yes	Fast acting Plutonium, Alpha, Beta, air monitor.
	<u>Mini Air Rad</u>	Yes	Total Airborne activity 6x10 ⁻⁸ uCi/cc in 30 minutes – sampler with detector, no read out.
	<u>Mini Air Rad & TBM-3D</u>	Yes	Total Airborne activity 6x10 ⁻⁸ uCi/cc in 30 minutes – sampler with detector, read out. Via TBM-3D ratemeter, full system.
	<u>Mini Air</u>	Yes	Total Airborne activity 6x10 ⁻⁸ uCi/cc in 30 minutes – sampler only no detector, no read out.
	<u>TBM-6SP-ST</u>	Yes	Survey monitor with PGS-3T external scintillator probe and internal GM Pancake probe.