

Enhance Radiation Safety with M3D Imaging Solutions

At M3D, we understand the critical importance of radiation safety in healthcare settings. Our solutions are designed to help you comply with stringent regulations, minimize radiation exposure, and swiftly address contamination incidents, ensuring a safer environment for your staff and patients.



Key Products & Services

RAVIN CAM:

- Advanced radiation spectroscopy and optical imaging.
- Wide imaging/spectroscopy range (30 to 662 keV).
- High energy resolution ($< 2.1\%$ at 140 keV).



Radiation Safety Services:

- Rapid contamination detection and identification.
- Effective shielding surveys to identify weak spots.

Key Benefits



Ensure Compliance: Stay ahead of regulatory requirements with our accurate and reliable radiation monitoring tools.



Enhance Safety: Quickly locate and identify radiation sources to minimize exposure risks.



Precision Imaging: Obtain high-resolution images and accurate spectroscopy for detailed analysis.



Comprehensive Surveys: Identify gaps in shielding and pathways of scattered radiation to ensure robust protection.



M3D

Contact us today to discover how M3D can enhance your radiation safety protocols. Visit our website, scan the QR code, or call us for a personalized consultation.



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RAVIN CAM Specifications:

- >19 cm³ pixelated CZT
- Imaging/Spectroscopy Range: 30 to 662 keV
- Energy Resolution: 1.1% FWHM @ 662 keV
- Minimum Activity for Imaging: 1uCi 140 keV @ 1m
- Dose Rate Range: 1 nSv/hr – 1 mSv/hr @ 140 keV
- Dose Rate Accuracy: ±10% @ 662 keV
- Size 8.7" (H) x 7.9" (W) x 10" (L) / 22 (H) x 20 (W) x 25.5 (L) cm
- Weight: 5lbs / 2.3kg
- Operating Temperature: 15-25 °C

Detailed Specifications



RAVIN CAM
by M3D

Case Studies



Contamination survey in a patient bathroom

Using the RAVIN CAM, we swiftly identified ^{99m}Tc contamination, mitigating exposure risks and ensuring a safe environment for both staff and patients.



Shielding Survey in a CT Control Room

Our shielding survey identified critical leakage points, allowing for timely repairs and enhanced protection for medical workers.

Additional Services

Radionuclide Therapy Imaging

- Monitor patient activity post-procedure to ensure precise dosage and minimize residual activity risks.
- Conduct comprehensive dose rate surveys for safe patient discharge.
- Identify and visualize extravasations to prevent complications.



Real-time monitoring and imaging of Lu-177 infusion for identification of possible extravasations.



Display of dose rate on LCD screen on RAVIN CAM. Imaging of activity during patient release survey after I-131 radio-ablation.



Reinforce your radiation safety measures with M3D. Visit our website, scan the QR code, or contact us for more information.



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