SERACAM®
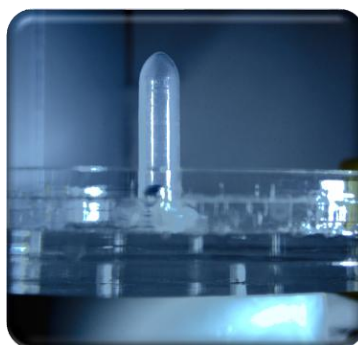
Real time
Gamma Optical Video Imaging
at the point of use
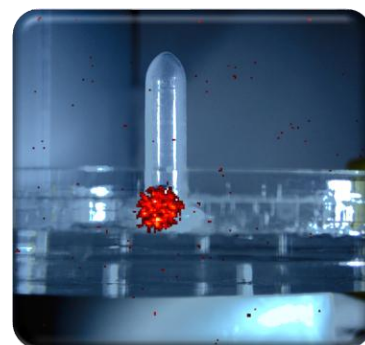
Americium-241 point-source (12.5 MBq)

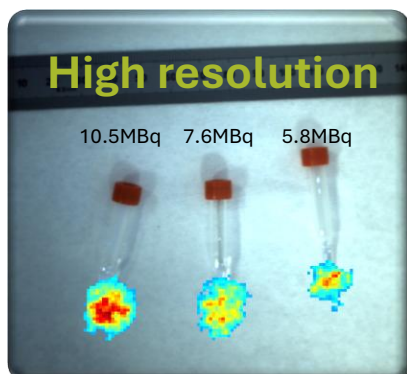Optical image | Gamma-Optical image
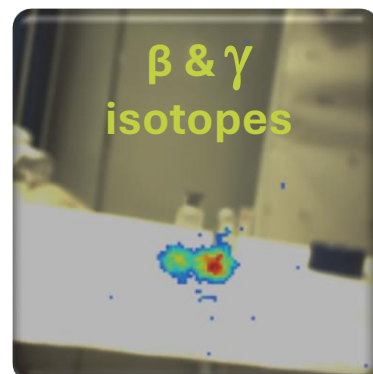
Real-time visualisation of gamma and beta radiation.

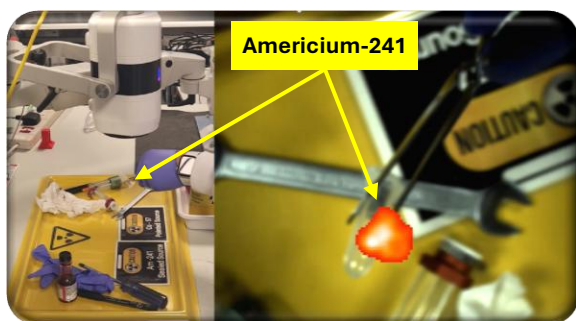## Determine exact location and distribution at point of use.

High resolution

10.5MBq   7.6MBq   5.8MBq

High resolution gamma-optical imaging of multiple **technetium-99m** sources in close proximity (141 keV)

Precise localisation

Precise localisation of a 5mm diameter **americium-241** source (12.5 MBq, 60 keV)

β & γ isotopes

Localisation & resolution of two **yttrium-90** sources: pure **β emitter** (0.75 GBq & 1.5 GBq, 1cm separation, 45cm distance)

Americium-241

Left frame: Seracam is positioned above the working area during a clean up operation for hands-free operation.

Right frame: a screenshot of the live, on-screen display as-seen by the operator. The americium-241 source was rapidly identified and safely shielded in a lead container.

A Seracam survey of the working area after clean up showed no other gamma sources were present.

SERACAM

Real time
Gamma Optical Video Imaging
at the point of use

The core of Seracam is the fully self-contained, self-shielded, 6" diameter camera head.

Contains gamma and optical signal detection and amplification technology, all electronics and firmware.

A touchscreen interface, and dedicated software provides fast and intuitive camera control and real time imaging for immediate operator feedback. The software saves images and videos for archiving and is designed for cybersecurity.

Plug-and-play

A single, wired, power-over-ethernet connection means Seracam operates as an isolated, 'stand-alone' system and can be deployed on robotic systems, UAVs or ROVs.
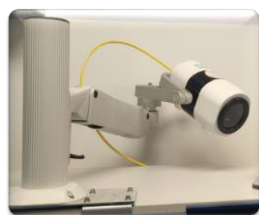
Easy operation

Plug-and-play operation means the system can be rapidly installed and is ready-to-use within 1 minute of power on. Minimal operator training is required.

Custom configurations are available on request. e.g. hand-held, mobile, desk mounted, wall mounted.

Handheld

Desk mounted

Mobile

Submersible

Drone

High spatial resolution

Still or video images

Touch screen control

Remote or hand-held operation

Plug-and-play set up

Gamma energy range 20-364 keV

e.g. Am-241, Pb-212, I-131 & β-emitters

Operating temperature up to 35°C

110-240 V power supply

Low power consumption (<10 Watts)

For more information:

At Serac Imaging Systems Ltd we are keen to talk to you about Seracam and explore how real time gamma-optical video imaging might help your nuclear operations.

If you would like to speak with our dedicated team, please drop us an email or call us on the number below.

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www.seracimagingsystems.com/industrial/