



# GammaPix™ Training Simulator

Extraordinary Capability From Ordinary Devices

## Need a realistic rad training scenario?

GammaPix Training Simulator™ provides Live-Virtual training capability

Training with realistically threat-sized radiation sources is dangerous and impractical. Training with real radiation sources restricts the size and realism of your scenario. Solve **both** these problems with the GammaPix Training Simulator system.

Set up your scenario on a cloud-based map interface using a web browser, and click to configure source sizes and locations. Command staff monitors the training scenario remotely or on scene, in real-time or in play-back for after action reviews.

Trainees use apps to report the dose from any location using multi-layered security infrastructure.

Automatic measurements alert personnel to dangerous (simulated) radiation levels.

Dose estimated for each responder.



### GammaPix Training Simulator device requirements

- Android 4.1 “Jelly Bean” or later
- Internet connection required
- Google Play Services
- Location Services (accurate map locations depend on GPS; indoor beacon-based positions coming soon)
- Coming soon to iOS.



222 Pitkin St, Suite 128  
East Hartford, CT 06108, USA

Phone: +1 (888) 667-9244  
Email: [info@imageinsightinc.com](mailto:info@imageinsightinc.com)  
Web: [www.imageinsightinc.com](http://www.imageinsightinc.com)

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# GammaPix: Extraordinary Capability From Ordinary Devices



GammaPix Training Simulation

Map

Analytics

Cameras

Devices

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## Why use a simulated source?

Radioactivity emergency response training exercises are often conducted with live sources at special locations. For safety reasons, the sources are smaller than would typically be encountered in a real emergency, but large enough to demonstrate the use of measurement equipment. Requiring special security, such exercises rarely take place in the relevant environments, never in well populated areas, and usually with a Radiation Safety Officer standing nearby. The GammaPix Training Simulator software avoids these limitations and complements live-source training by using simulated sources to create a Live-Virtual training environment. Exercises are conducted at low cost, and with maximum convenience in locations of your choosing.

## How it works

The GammaPix Training Simulator App runs on unmodified smartphones and connects with the GammaPix Command Center web application. Scenarios are constructed and controlled using the Command Center. During exercises, the Training Simulator App communicates with the Command Center to determine what radiation level would be measured

if the scenario were real. In automatic mode, the app alarms once significant radiation levels are detected. In active mode, trainees use the app to measure and localize the radiation source, and to determine safety cordon locations. Dose estimates are made automatically.

## Incident Command Operations

The GammaPix Command Center, in addition to controlling the scenario, also receives, stores and plots the radioactivity data from the trainees for use by the Incident Commander. Optionally, it issues commands to change the operation of the app, such as increasing the measurement frequency or to poll all devices to measure radiation at that moment. The system allows real-time monitoring of the First Responder's performance, as well as training incident commanders. Click-drag-type scenario creation enables Training Officers to quickly develop scenarios for various learning objectives. Accelerated play-back of the exercise supports post-event evaluation of the training event, and supports development of after action reports.

[info@ImageInsightInc.com](mailto:info@ImageInsightInc.com)