



WESTMINSTER
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Excellence through Service
Protecting your world



fire



safety



security



defence

X-Ray Scanner Training System (XRSTS)

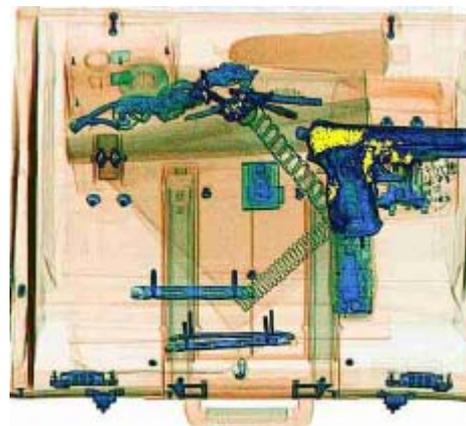
Westminster recognise that the most effective and practical form of x-ray screener training is computer based training.



This system can be operated on a standalone PC or on a computer network of PCs to allow simultaneous training of a group of students on a multitude of x-ray machine interfaces.

Applications

- ▶ Aviation facilities;
- ▶ Borders;
- ▶ Government facilities;
- ▶ Maritime facilities;
- ▶ Military facilities;
- ▶ Nuclear power plants;
- ▶ Prison facilities;
- ▶ Stadiums & Arenas;
- ▶ Strategic buildings.



XRSTS it is a computer based security training package that has a unique blend of x-ray simulation, training courses and assessment.

XRSTS enables screeners to interpret images and learn how to use x-ray machine control panels for different x-ray machines via a standard PC.

The package is designed to develop and improve the interpretation skills of security screeners by training using high fidelity images of real bags.

Genuine x-ray images are used in conjunction with interfaces corresponding to the x-ray machine being simulated; we believe this is the only way to ensure 100% accuracy.

Through our mix of x-ray simulation and computer based training courses screeners receive excellent technical and practical training to take them from novice to experienced screener standard.

XRSTS is the only computer based training system to have Federal Aviation Administration approval and conformance with ICAO guidelines. It is approved by numerous Government and regulatory bodies around the world.

Other suppliers use a number of terminologies to describe the manner in which their simulators work, including builda-bag, virtual bags, overlays and composite images.

Despite these different names, they all work in essentially the same way, the bags, threat items and other content items are x-rayed separately with the images being overlaid to make a composite images are not x-ray correct.

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As x-rays pass through materials they are changed, the image generated when an x-ray passes through a book, a camera and some clothing is subtly different to one where the beam passes through these items separately or in a different order.

A composite image is compiled in a series of layers, bag, contents and the threat item. Real bags are not like this, for example, an explosives device could have one component at the top of a bag, another lower down and a third at the bottom of a bag.

Indeed this is one way that a terrorist would conceal its existence, this cannot be duplicated with composite images thus trainees are not given realistic and thorough training if using composite images.

The XRSTS techniques make it possible to generate an identical simulated image to that generated by the real x-ray machine; this means that when the screener starts work in a 'live' situation they could be easily confused as they have been 'practicing' on something that looks quite different.

It is important that trainee screeners can see the image on screen and view a photograph of the actual bag so they can compare the two.

Trainees using XRSTS can do this easily as we use images of real bags that we also photograph and show to the student.

Other suppliers using composite images can not offer this crucial facility as their bags do not actually exist.

One of the fundamental reasons why XRSTS is the market-leading computer-based simulation product for x-ray screener training is the quality and competence of screeners who have been trained using our system.

Suppliers who use composite images in their simulation training can never offer the same levels of quality as this type of image can never look exactly like the real thing.

These two photographs are both of the same person. The left hand one is a composite image made from photos taken at different times. The other is a real image, only the real image is recognisable.



A simulator using composite images will train the user to perform well with that simulator but will not improve their skill with the real x-ray machine.

Using XRSTS trainees see real images, just as in a 'live' situation, screeners are therefore far better prepared to start screening competently and confidently from the word go.

Tracking & analysis of screener performance

It is imperative that individual screener 'training needs' are fully analysed and targets set for attainment of screener standards within organisations.

We adapt our training to suit the needs of the individual.

We can design image interpretation training using our extensive library of real bag images to challenge all screeners, from novice through to the most proficient.

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As in the real world, the bag images are manipulated using the simulated x-ray control strip options, exactly as on the x-ray machine itself, in order to detect threat and non-threat items.

XRSTS then tests for the accuracy of interpretation and leads screeners through a comprehensive review of their session.

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