

LEARN MORE ABOUT SECURITY



For More Security
in Airport Operations:

E-LEARNING
CLASSROOM TRAINING
CONSULTING
SCREENING



We think people are
the most important link
in a well-functioning
security chain.



For Us, Aviation Security Is a Matter of the Heart.

Everyone wants to fly. And everyone wants it in the most secure way: the world of aviation is evolving at a rapid pace, and so does aviation security. At STI, we have made it our mission to provide the best possible training and education for security personnel, helping to make airspace safe and reliable for the future.

STI specializes in security training, being one of the leading providers of training software for aviation security today. Our experts have been developing training solutions, software and e-learning modules for over 25 years.

Their daily practice and in-depth knowledge of the workflow of airport screeners help them to continuously improve our products and adapt them to the latest technology. Our trainers constantly review and re-evaluate the training modules in practice. Feedback from trainees is incorporated constructively into our further development.

In short, we do everything we can to make security a controllable variable for our customers: airport operators, airlines, authorities, judiciary and industry.



“Our OTS training software ensures 100% realistic X-ray images. Learning takes place on the original virtual devices: this is the closest to real life environment!”

Holger Heldmann
Managing Director STI

Today, our X-ray image recognition software OTS is the state-of-the-art tool for all training levels and is certified by the German Federal Police, among others. In addition, we offer trainees the comprehen-

sive theoretical background with our NEOS training system. With the ProDetect 3D training simulator, we are responding to the growing number of computed tomography (CT) devices at airports.

Here's What You Can Expect from STI.

01 PROVEN LEARNING SYSTEMS

Whether on-site, computer-based or online training, our courses make the material accessible to everyone individually. For example, the S.T.E.P. learning system supports trainees by gradually increasing the level of difficulty in X-ray image analysis.

02 EXTENSIVE PRACTICAL EXPERIENCE

We are present at airports, thus combining practical knowledge with profound expertise in software engineering.

03 STATE-OF-THE-ART TECH- NOLOGY

Our training courses and e-learning modules are continuously adapted to the latest developments.

04 REQUIREMENTS FULFILLED

With our portfolio, we comply with all legal requirements and specifications for airport security personnel, nationally and internationally.



OTS Makes X-Ray Eyes.

SOFTWARE-BASED TRAINING FOR X-RAY IMAGE ANALYSIS

In order to evaluate X-ray images quickly and correctly, we need learning conditions that are as realistic as possible and a system that responds flexibly to trainees. With OTS, we developed training software that can do both!

Originally developed as a training module for our own airport control staff, OTS (Operator Training System) is now used in over 70 countries around the world. Airports, trainers and government agencies work with our software and online-based training to familiarize trainees with the art of X-ray image interpretation.

The OTS simulators provide an absolutely realistic representation of X-ray images in everyday airport operations. In this way, objects can be identified in the best possible way and everyday objects can be reliably distinguished from potential threats.

In basic training, the included S.T.E.P. learning system slowly increases the complexity and level of difficulty for trainees. They are supported at their own individual pace. In advanced training, they benefit from an adaptive system that is able to adjust independently to the level and progress of the trainees.

**Want to learn more about OTS?
We are looking forward to receive your
e-mail at sales@sti-training.com**



Learning Success on a New Level.

BASIC TRAINING: OTS basics

OTS basics provides an introduction to the relevant areas of 2D X-ray image interpretation, e.g. people screening, hand luggage and baggage. The S.T.E.P. learning system guides trainees step-by-step through different learning levels.

RECURRENT TRAINING: OTS Xpert

With OTS Xpert, basic knowledge can be refreshed or increased on a recurring basis, e.g. as part of any recertification. Thanks to complex algorithms, the system adapts to the individual trainee.

SPECIAL TRAINING

Additional modules for expanding or shifting the field of activity complement the OTS portfolio. The ProDetect 3D training simulator is used, for example, to train security personnel in the use of CT scanners (cooperation with Battelle Memorial Institute, USA).

ADMINISTRATION: OTS Management

The STI Management platform makes it easy to manage groups, learning content and, in addition, enables you to review results and performance.



“OTS basics provides trainers and trainees with a user-friendly and contemporary way to improve their training outcomes.”

Marc Link

Head of Sales & Marketing STI

OTS Training Software at a Glance.

- **Up-to-date:** tailored to the increasing requirements of civil aviation
- **Practical:** 100% realistic X-ray images
- **Intelligent:** self-learning system for maximum learning success
- **Versatile:** available as single or multi-user systems
- **Relevant:** made for aviation, air cargo, infrastructure and supply chain security personnel
- **Measurable:** keep track of all performance criteria's through STI Management



Thinking in New Dimensions.

CT SCANNERS FOR AIRPORT OPERATIONS

Most people are familiar with the the computed tomography scanning procedure from medicine: layer by layer, an imaging technique called CT is taking precise pictures of the human body. In baggage screening, the CT scan (computed tomography scan) is still a young technology that opens up promising prospects for airport operations.

Three-dimensional „slice X-ray“ and the required equipment have been developed at a rapid pace over the last 50 years. Today, CT is considered the best option for superposition-free X-ray imaging and also used beyond medicine, e.g. in the careful examination of archaeological finds or when testing industrial materials. For some years now, this technology has also become increasingly interesting

for airport security, especially because it could accelerate controls and make image analysis even more precise.

The advantages are obvious: instead of the usual four, CT scanners deliver up to 800 images of a piece of baggage, all without any loss of time. On the control screen, these images are combined to form three-dimensional views. By scanning the baggage layer by layer, inspection personnel can interpret the images much more accurately than is possible with 2D X-ray analysis. In addition, laptops and liquids no longer need to be removed which makes life easier and saves time for both air travelers and security personnel.



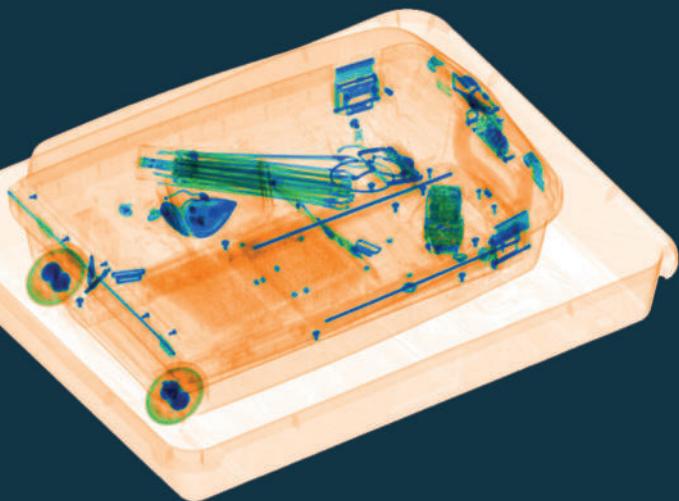
CT scanners can do far more.

The use of 3D X-ray equipment is not yet the norm. Among the first in Europe to introduce computed tomography scanners as standard equipment in the passenger sector 2020/21 are Amsterdam Schiphol and Munich Airport. Until then, the technology had only been used in Germany for checked baggage.

Outside of Europe, CT scanners have been in use for a longer time, due to the different legal frameworks.

In Germany, however, testing is generally very thorough. For example, CT scanners are currently being tested in the passenger screening areas at several German airports, and the Federal Police are testing at Frankfurt Airport to evaluate to which extent the new devices can offer “operational added value” and thus speed up procedures. Further test runs are taking place in Cologne and under state supervision in Munich.*

* AERO International 8/2022



ProDetect®

“With ProDetect CT, our users can seamlessly connect to their own OTS experience. That’s what we were aiming for!”

Axel Stefan

STI Management

Security CT Scanners at a Glance.

- **Increased security for control staff.** The 360-degree perspective allows overlaps to be identified and hidden dangerous objects can be more easily detected. Explosives, weapons and other prohibited items can be detected more quickly.
- **More convenience for passengers.** Liquids and electronic devices no longer need to be removed in advance: this can increase check-in speed. Long waiting times before security checks would become a thing of the past.
- **Greater efficiency for airport operations.** Although many 3D scanners are expensive to purchase, they are designed to reduce the amount of manual work required for operations. In the long term, fewer personnel will be needed.

ProDetect CT: training for the 3D Scan

Without a doubt, 3D equipment comes with special training: CT scanners are not only larger and more complex than conventional X-ray systems, but also require special skills in their operation. To prepare professionals for the use of the new technology, STI has entered into a partnership with the US research

company Battelle Memorial Institute, USA. Together, we offer ProDetect CT: with its various graphical interfaces, the 3D training simulator incorporates the different devices of the manufacturers. This enables us to train and qualify trainees individually with a clear focus on their future area of application. Another big step into the future of airport security!

Don't Compromise when It Comes to Security.

ONLINE LEARNING WITH NEOS

With NEOS, safety begins even before you hire new people: the online aptitude test for control personnel simplifies your selection process! Afterwards, didactically well thought-out online training courses ensure that your employees are perfectly prepared for their daily work. They can do this preparation at

home or at their company workplace and decide on time and pace themselves. **Every year, we are pleased to welcome around 10,000 successful NEOS graduates worldwide.** Our classroom training courses can also be supplemented or refreshed with NEOS online training or live seminars.



Check: legal compliance guaranteed!

For many security areas, official approval is required, which can be gained through our training courses. Most of them must be repeated regularly according to the law. With STI, you are on the safe side: all our training courses comply with the applicable requirements which are approved by regulatory authorities such as the Luftfahrt-Bundesamt (LBA – German Federal Aviation Authority) and are revised and adapted to legal changes on a regular basis. Participants who successfully complete their course receive a recognized, audit and legally compliant certificate.

Security comes first.

For this reason, we check the legal requirements of each individual who is scheduled for an online training course before any access data is issued. You can purchase all NEOS training courses easily in our NEOS shop on sti-training.com. Just register to receive access data, then distribute course permissions to the persons to be trained and manage the processes.



“With NEOS, we’ve put all the relevant training together on a single platform.”

Marc Link

Head of Sales & Marketing STI

NEOS E-Learning at a Glance.

PRE-EMPLOYMENT ASSESSMENT: aptitude test for screeners. For better assessment of applicants and their skills prior to employment as an aviation security screener.

ADVANCED TRAINING: for security officers. For personnel who have already successfully completed certain basic training courses.

AIRPORT SECURITY: security awareness training. For individuals other than passengers who require unescorted access to secure areas.



Want to learn more about NEOS?
We are looking forward to receive your
e-mail at sales@sti-training.com



AIR CARGO SECURITY: for future staff with access to secure air cargo, e.g. from the areas of shipping, logistics, distribution, temporary employment, cleaning, security service.

SUPPLIER SECURITY: for persons performing security screening beyond regular screening, e.g. mail, air carrier materials, in-flight supplies, airport deliveries.

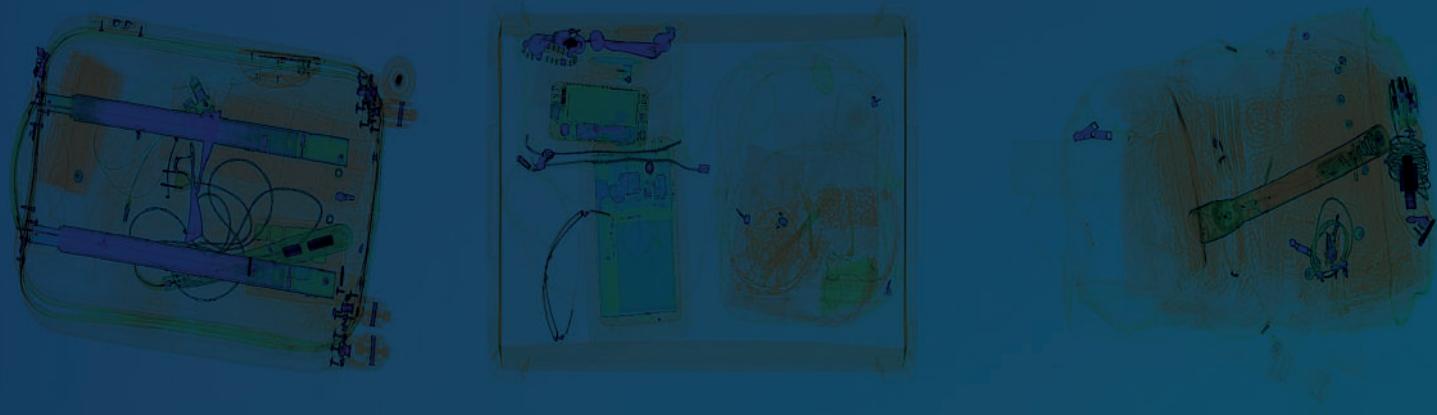
OPERATOR TRAINING HITRAX: for operators of Smiths Detection HI-SCAN X-ray inspection systems.

Let's Improve Your Knowledge Together.

CLASSROOM TRAINING AT STI

On site, theory becomes tangible, sample situations become comprehensible and take shape. Our classroom courses create a reliable basis for security personnel at airports, in industry and in government agencies. Certified trainers know the practice like no other and can convey content lively and realistically. This way, participants benefit directly from our

wealth of knowledge and experience. When it comes to security, practice and know-how often play a decisive role! The mutual exchange during the lessons helps everyone: questions are clarified on the spot and mistakes are corrected immediately before they happen.



Well trained, securely prepared.

Our training courses are complex and take into account all aspects that are relevant in terms of security. For example, we teach legal basics, risk assessment, how to behave in dangerous situations

and how to handle control technology correctly. When training security screeners with technology, we train directly on the X-ray inspection system and, if necessary, supplement the training with modules from our OTS training software.

Want to learn more about STI classroom training?
We are looking forward to receive your e-mail at
sales@sti-training.com



STI Classroom Training at a Glance.

- Our trainers conduct **basic, advanced, refresher, and recurrent training courses.**
- The course content covers all areas of **access control, mail inspection, passenger and air cargo screening** that are relevant for security personnel.
- We offer special training modules for **operators of X-ray screening systems.**
- **Legal compliance guaranteed!** Our courses comply with national and European regulations and conclude with a recognized, audit and legally compliant certificate.
- **We train wherever you want**, e.g. in our training center, but also at your own premises if you wish.



“During the training, we always keep an eye on the status and needs of the individual. This way, we can provide customized support at any time!”

Erich Kramer
Department Manager Consulting and Training STI



First-Hand Knowledge Guaranteed.

STI PASSENGER AND AIR CARGO SCREENING

We believe that without practical experience, theory is only worth half as much! As we are deeply rooted in passenger and baggage screening, our offerings as a security service provider continue to form an indispensable part of our portfolio.

On behalf of the locally responsible aviation security authorities, we provide experienced, highly qualified personnel for passenger and cargo screening. This deployment also enables us to continually review and update current methods and security measures: We are as familiar with the work cycle on X-ray devices as we are with the technology itself; critical

issues are experienced here first-hand. A practice that benefits our training courses and is an integral part of the further development of our software.

In the area of air cargo screening, as a self-approved regulated agent (regB), we offer modern air cargo screening centers together with our logistics partners. Here, air cargo is professionally x-rayed and inspected in compliance with regulations on its way to the major departure airports. This measure applies to all air cargo shipments that do not originate from an officially approved Known Shipper.

Are you looking for solutions in the area of passenger or air cargo screening? We look forward to receiving your inquiry at sales@sti-training.com





“Experiencing the daily checks first-hand also gives us a decisive edge in knowledge transfer.”

Axel Stefan

Managing Director STI

STI Services at a Glance.

- **Personnel for passenger screening.** Approved by the LBA, additional qualifications from the areas of X-ray and radiation protection and the regulation of dangerous goods air. We have been active at regional airports since 2014.
- **Air cargo control centers.** Nationwide network of LBA-approved air cargo screening centers directly on customer premises. Equipment incl. staff (LBA-approved, trained according to EU implementing regulation), cargo X-ray and explosives detection equipment.
- **Personnel for mobile cargo inspection.** Control of shipments in the security area, which cannot be secured by X-ray control or alternative methods on site. Applied explosives trace detection (ETD), visual inspection and hand search.



Let's Talk about Your Security Concept.

CONSULTING SERVICES AT STI

Anyone working in sensitive areas will sooner or later have to confront questions of security. What are the risks in the supply chain? How can security gaps be avoided and which measures can be sensibly integrated into existing concepts? Intelligent security programs are becoming increasingly important, and not just for airports.

At STI, we combine many years of experience in the security sector with extensive knowledge of security technology, which we constantly update. Therefore,

in addition to our training modules, we also offer consulting services. For companies such as carriers, freight forwarders and airports, we review and evaluate existing concepts, create new ones based on current national and international regulations, and thus develop customized models with which risks can be reliably minimized. We are happy to support our customers as a partner throughout the entire process, from the initial analysis to the implementation of an individual security concept.

STI Consulting at a Glance.

- **As-is analysis**
- **Development and processing of** security programs and concepts
- **Review and evaluation of** existing security programs and concepts
- **Security audits**
- **Validation** by certified EU validators (ACC3, RA3, KC3)
- **Certification** according to ISO 9001:2015



Technology under Control? Check!

The industry needs equipment that runs perfectly at all times. With a ECAC test case, you can ensure that your X-ray scanners are working flawlessly before they are being put into operation! All EU and some non-EU countries are obligated by law to regularly test the image quality and performance of

their equipment. For this purpose, we offer samples of different materials in different densities (simulants) in „test cases“ (STP) which can be used in people screening (EWSTP) as well as for cargo X-ray inspection systems (LTSTP).



Our Test Cases in Detail.



EWSTP

(EXPOSED WIRE STANDARD TEST PIECE)

- For regular verification of the accuracy of dual view X-ray inspection systems
- Usable regardless of the manufacturer
- Test results in millimeter and AWG format

LTSTP

(LARGE TUNNEL STANDARD TEST PIECE)

- For regular verification of the accuracy of cargo X-ray inspection systems
- Contains 2 EWSTP, in millimeter or AWG format on request
- Particularly user-friendly: rests directly on the rollers of the X-ray machine

MM-STP/AWG-STP

- For regular verification of the accuracy of single view X-ray inspection systems
- Usable regardless of the manufacturer
- Test results in millimeter and AWG format

All cases are manufactured in Europe and comply with applicable regulatory requirements (including EU, European Civil Aviation Conference ECAC and DFT).

We Will Be Happy to Advise You.

Are you interested in our training courses and e-learning modules? Do you need support in people or cargo screening? Or would you like some non-

binding advice on security? Whatever your concerns are, we are happy to hear from you. Just give us a call or send us an e-mail.

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