# Use of uniSCAN® X-ray inspection systems

## Status January 1, 2018

(1) Use of uniSCAN baggage X-ray inspection systems

Notification of operation in Germany

uniSCAN baggage X-ray inspection systems are designed in such a way that the external dose values of the X-ray radiation are below the limit values for full protection devices (< 3µSv/h at a distance of 0.1 m). A prerequisite for the operation of uniSCAN baggage X-ray inspection systems is a notification in accordance with § 4 of the X-ray Ordinance (RöV), which must be submitted to the supervisory authority responsible for the respective federal state at least four (4) weeks before commissioning. The appointment of the radiation protection commissioner by the radiation protection supervisor must be verified to the supervisory authority within the scope of the notification and is the responsibility of the radiation protection supervisor. The radiation protection commissioner and his possible deputies must provide evidence of a qualification course of Group 3 in accordance with the guideline for qualification in radiation protection. Furthermore, the technical qualification must be confirmed and issued by the respective supervisory authority of the state government. As a prerequisite for a successful completion of course R3 and the award of the radiation protection qualification, a basic level of technical understanding is necessary. Furthermore, an expert's report is required, which must be prepared before commissioning at the place of operation. The expert opinion must be prepared by a recognised expert independent of the seller, buyer and operator (e.g. TÜV) and must be submitted to the responsible supervisory authority within the framework of the notification. A nationwide type approval for uniSCAN X-ray baggage screening systems as basic, high or full protection devices does not currently exist. For mobile uniSCAN baggage X-ray inspection systems, a nationwide approval is required for operation.

(2) Use of uniSCAN personal X-ray inspection systems

Limited operation in Germany with special permit

The use of uniSCAN personal X-ray inspection systems for the purpose of access control or for searching for objects that a person hides on or in his body is not permitted in Germany in accordance with Annex 5 to § 2a Paragraph 3 of the Radiological Protection Ordinance (RöV), provided that the use of such systems is not prohibited.

a) is carried out on the basis of a law and is necessary for the performance of sovereign tasks, taking into account all circumstances of the individual case, or
b) is absolutely necessary in the business area of the Federal Ministry of Defence for the purpose of defence or the fulfilment of intergovernmental obligations.

If the special permit from the responsible ministry for the use is available, the legal regulations for the use of X-ray inspection systems apply for the operation in Germany (according to RöV). Due to their construction uniSCAN personal X-ray inspection systems are neither basic, high or full protection devices, since the radiation source is directed, but not
fully protected. It is the responsibility of the end user to label the correspondingly extended radiation protection, safety and controlled areas and to monitor compliance. All uniSCAN personal X-ray inspection systems are tested and certified by independent testing institutes according to US Standard ANSI/HPS N43.17-2009 GENERAL USE and/or LIMITED USE.

(3) Use of uniSCAN vehicle X-ray inspection systems

Limited operation in Germany with special permit

Due to the increased radiation dose, uniSCAN vehicle X-ray inspection systems in Germany may only be used for X-ray scanning of unmanned vehicles (without driver, vehicle occupants, passengers, operators and other persons, animals, etc.) and require the approval of the respective supervisory authority. Furthermore, the legal regulations for the use of X-ray inspection systems apply for operation in Germany (according to RöV). Due to their construction, uniSCAN vehicle X-ray inspection systems are neither basic, high or full protection devices, since the radiation source is directed but not fully protected on its side. It is the responsibility of the end user to label the correspondingly extended radiation protection, safety and controlled areas and to monitor compliance. With mobile vehicle X-ray inspection systems, the X-ray and radiation protection area that shifts during ongoing X-ray operation must be observed and strictly adhered to. All uniSCAN vehicle X-ray inspection systems are tested and certified by independent testing institutes according to US Standard ANSI/HPS N43.17-2009 GENERAL USE and/or LIMITED USE.

(4) The respective radiation protection laws of the end user country shall apply abroad. The end customer is responsible for compliance with these.

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