



# Datasheet

## **Soter RS**

# DATASHEET

## SOTER RS

### SOTER RS - FEATURE HIGHLIGHTS

<b>Primary function:</b>	Personal screening system
<b>Material detection:</b>	Metallic/non-mettalic objects, narcotics, powders, herbals
<b>Detection capability:</b>	44 AWG - A-typical
<b>Technology:</b>	X-ray transmission
<b>Type-C standards:</b>	ANSI/HPS N43.17-2009 IEC62463:2010
<b>Category:</b>	Cat.1 (on request) & Cat.2 (standard)
<b>System Class:</b>	Class A
<b>Authorization &amp; identification:</b>	Biometric reader, barcode scanner or NFC
<b>Manufactured in:</b>	The Netherlands



## THE SOTER RS

The intended use of the Soter RS is to legitimately search for concealed contraband in the human body. The Soter RS intentionally exposes people to ionizing radiation for non-medical purposes. The Soter RS may not be used frivolously where no security benefit is to be derived.

## COMPANY PROFILE ODSECURITY

**Ever since ODSecurity has been founded in 1960 in Leeuwarden, the Netherlands, we've developed and produced seriously trustworthy full body scanners. Throughout our history we have evolved from the medical world into fully developing the body scanners we offer today, dedicated for security purposes.**

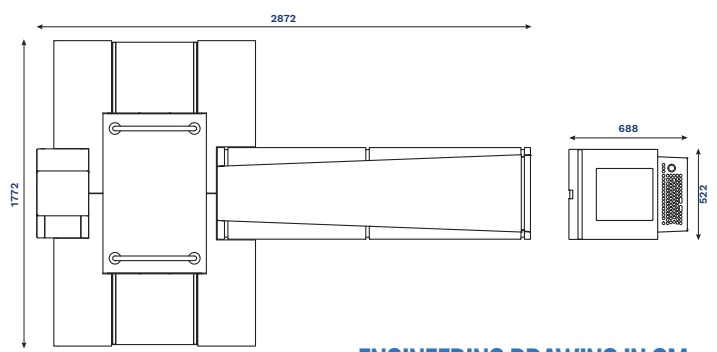
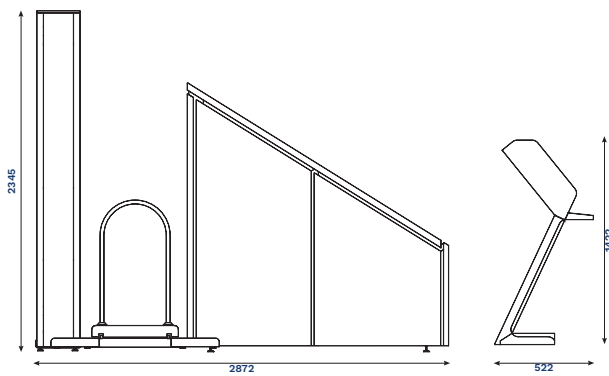
We are devoted to improve the processes involved in detecting contraband in a humane manner, making the search non-invasive to the person being scanned whilst ensuring the most accurate detection and operator safety.

ODSecurity is a highly driven and innovative organisation. We distinguish ourselves through years of global business experience and our knowledge in the field of X-ray body scanners. This, combined with the strength of our young, eager attitude really separates us from any other

body scanner supplier. Our agility and decisiveness make us extra relevant to our clients and ensures that we are able to rapidly respond to the changing circumstances in the correctional market.

This, and our personable service makes us an excellent partner in the development, production, installation and training of body scanners, which shows in the large number of body scanners we currently maintain worldwide.

Combining our many years of experience and knowledge with an eager, agile approach, ODSecurity really does offer the full package. This fuels us to continuously improve the technology behind our body scanners, ensuring the best experience for our clients.



ENGINEERING DRAWING IN CM

## ELECTRICAL DATA

<b>Power supply:</b>	230 Volt AC or 110-125 Volt AC ±10% (50/60Hz) 1 phase
<b>Power consumption:</b>	<1.2 kVA
<b>E-stops:</b>	2

## SOFTWARE & NETWORK DATA

<b>Image enhancements:</b>	various image augmentation and enhancement filters, dynamic calibration, active noise filter
<b>Display:</b>	23" full-colour multi touch screen
<b>Software:</b>	Controller, viewer, application (Win 10 IoT)
<b>Data storage local:</b>	Microsoft SQL server
<b>Data storage - central server (optional):</b>	Microsoft SQL server
<b>Data exchange:</b>	Data synchronizer, adjustable to network speed
<b>Identification:</b>	Biometric reader (fingerprint)

## OPERATIONAL DATA

<b>Start-up time:</b>	<2 min.
<b>Warm-up:</b>	Only when >7hr power down
<b>Platform speed:</b>	0.6 - 0.11 m/s
<b>Platform load capacity:</b>	250 kg
<b>Scan method:</b>	Person moving through X-ray beam
<b>Scan time:</b>	7 - 10 sec.
<b>Scan height:</b>	190 cm
<b>Image result:</b>	DICOM image greyscale 16-bit
<b>Sound pressure:</b>	<51 dB(A)

## SCAN-IMAGE GENERATION

<b>Generator cooling:</b>	Oil, closed circuit
<b>Scan format:</b>	Line scan
<b>Generator:</b>	160 kV cp
<b>Detector:</b>	1216 diodes
<b>Dosage levels:</b>	3 levels, can be adjusted (0,2 µSv up to 6,0 µSv)
<b>Duty cycle:</b>	100%

## MECHANICAL DATA

<b>Dimensions:</b>	(cm) W177 x L287 x H235
<b>Dimensions console:</b>	(cm) W50 x L70 x H140
<b>Weight:</b>	700 kg
<b>Construction:</b>	Steel
<b>Covers:</b>	Steel

## CRITICAL COMPONENTS

<b>X-ray tube:</b>	80-160 kV mono-block
<b>HVL @ 100kV:</b>	4.5 mm AL
<b>Detector assembly:</b>	5Vdc diode array PCB's
<b>Platform assembly:</b>	24 Vdc motor + gearbox
<b>PC* (Win10 embedded):</b>	Intel i7, 8GB RAM, 2TB SSD, 2TB HDD

\* PC specifications may differ

## ENVIRONMENTAL CONDITIONS

<b>Humidity:</b>	5% - 95% (non-condensing)
<b>Operating temperature:</b>	0°C to 40°C

## OPTIONS

<b>Wireless viewer:</b>	Tablet
<b>2nd operator desk:</b>	Floor, wall or desk mounted
<b>ID camera:</b>	client photograph
<b>2nd monitor for torso:</b>	23" full-colour multi touch screen
<b>Web-service:</b>	Interfacing Jail Management System
<b>Subject ID &amp; operator authentication:</b>	Second fingerprint reader, NFC reader, barcode scanner

☎ +31 (0) 88 457 0580

@ info@odsecurity.com

🌐 www.odsecurity.com

## UNCOVER ALL CONTRABAND WITHIN A MATTER OF SECONDS.

- Detect all types of contraband
- The highest available image quality
- Worldwide proven technology
- Radiation-free for operators

