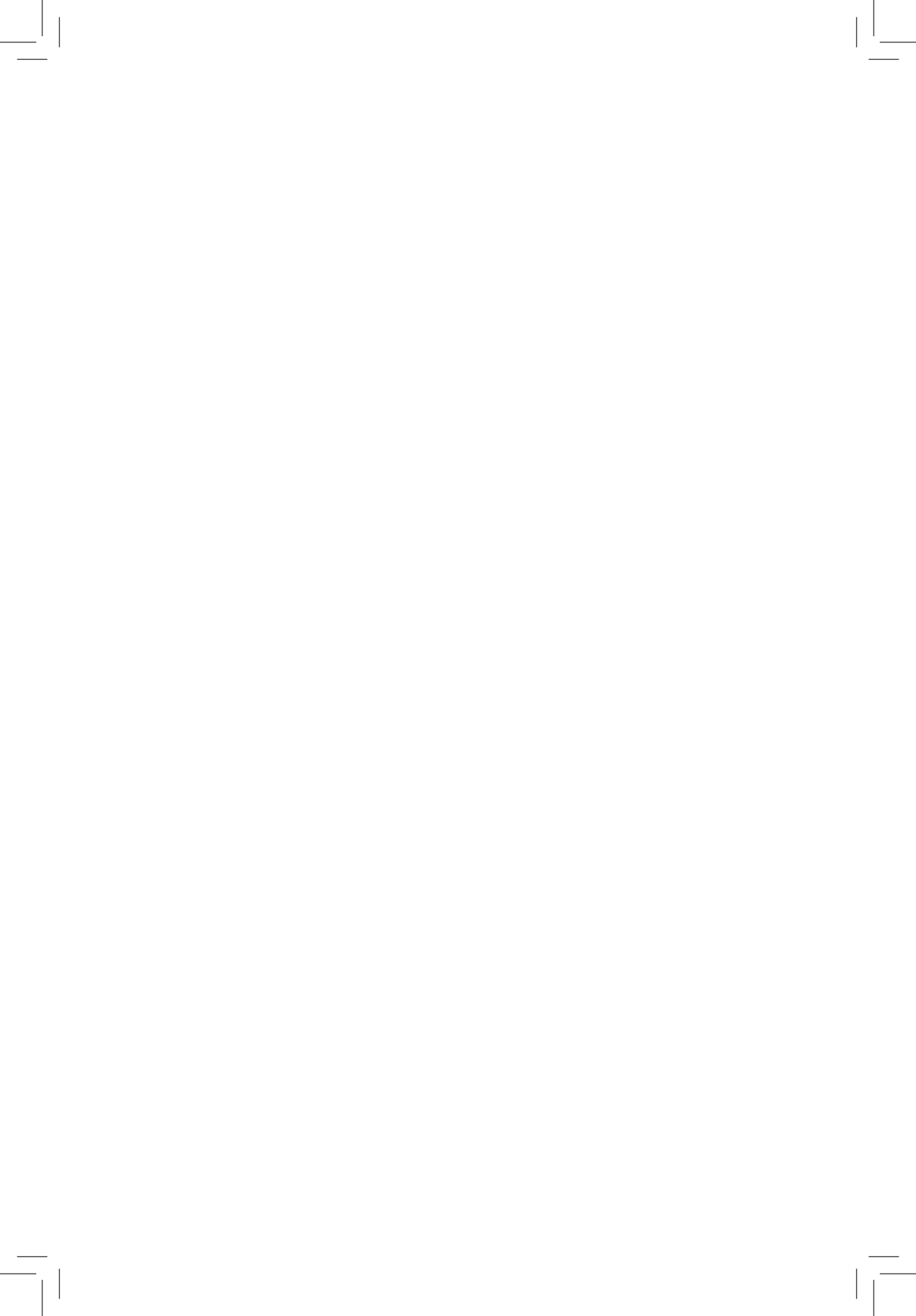


smiths detection

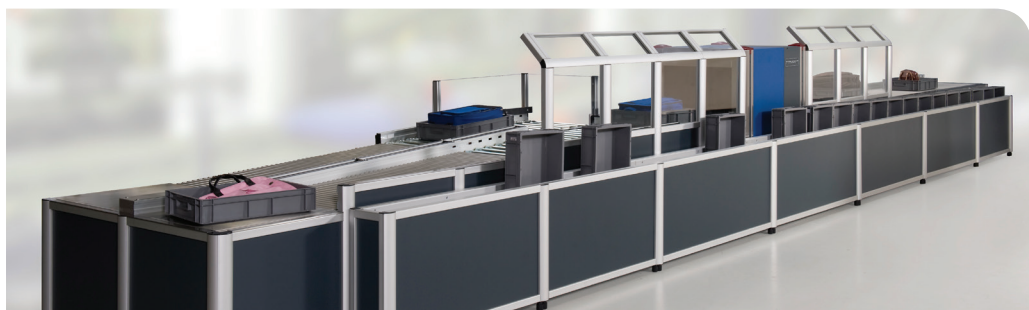
iLane.pro







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About iLane.pro

iLane.pro – the new innovative checkpoint concept from Smiths Detection – is the second generation of the worldwide proven iLane concept. With iLane.pro's modular design customers are provided with an opportunity to create their own individual checkpoint and with a wide range of components in a new, modern design, it facilitates the best use of space and would replace and enhance any existing checkpoint area.

Through a combination of iLane.pro checkpoint design and enhanced operations and functionality, such as, tray return, directed search and remote screening customers are able to handle challenges such as increasing passenger throughput and performance at the security checkpoint. This catalogue showcases a small sample of iLane.pro possible checkpoint configurations.

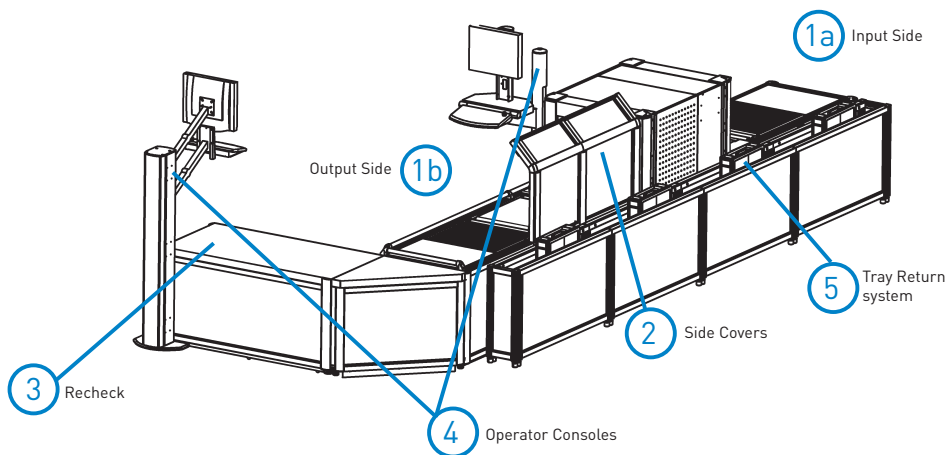
iLane.pro
is the
perfect
choice as
part of your
checkpoint
of the
future.



iLane.pro Configuration options

With iLane.pro, it is possible to create an entire checkpoint including all the features that are needed to execute a sophisticated security protocol, facilitating high throughput and supporting an ergonomic working posture for operators.

The iLane.pro example shown, integrates all modules to achieve a complete checkpoint solution.



Application Examples

Extending the security lane can easily be achieved by the use of modules in different lengths such as roller conveyors, motorized belt conveyors or drop-off/ pick-up modules and with the addition of low side covers provide a separation between operator and passenger areas.

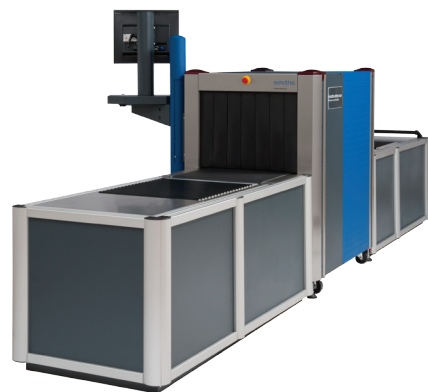


In/Output Roller Conveyors

The simplest application consists of an X-ray inspection unit equipped with input and output roller conveyors.

* The minimum size is 300 mm per roller conveyor.

Simple Application	
Input Roller	500mm
Output Roller	800mm



In/Output Roller Conveyors, Motorized Belt Conveyor, low Side Covers, Drop-off/ Pick-up Module and Side Guards

Extending the security lane can easily be achieved by the use of modules in different lengths such as roller conveyors, motorized belt conveyors or drop-off/ pick-up modules. Low side covers shield the bottom side of the security lane and provide separation between operator and passenger areas.

Security Lane Application	
Input Roller	300mm
Output Roller	800mm
Side Covers	1200mm
Drop-off Module	800mm



In/Output Roller Conveyors, Motorized Belt Conveyor, low and high Side Covers, Tray Return System and Side Guards

In addition to low side covers, high side covers shield the bottom as well as the top side of the security lane to prohibit passengers from reaching into the lane and the X-ray inspection tunnel.

Passenger Security Lane Application	
Input Roller	300mm
Output Roller	800mm

Input/Output **Configurations**



Input side

iLane.pro's large range of modules allows for each security lane to be customised to meet the exact checkpoint requirements and constraints.



Output side

Through the combination of these modules, the lengths of security lanes can be varied to optimize throughput rates for each checkpoint as required.

Modular Roller Conveyors

iLane.pro's modular roller conveyors are applicable for the input and output side of an X-ray inspection unit. iLane.pro's new modular roller conveyors can be extended and newly designed feet allow the angle (gradient) to be adjusted.



Modular Roller Conveyors

iLane.pro's modular roller conveyors are applicable for the input and output side of an X-ray inspection unit. iLane.pro's new modular roller conveyors can be extended. New adjustable feet permit an individual setting of the security lane's tilt angle. End stops for the roller conveyors are included in delivery. Additionally, roller conveyors can be provided with side guards.



Fixed Length Roller Conveyors

iLane.pro's fixed length roller conveyors can be used for the input and output side of an X-ray inspection unit. These modules are of the same material and design as modular roller conveyors but the lengths are not upgradeable with further modules. These roller conveyors are available in fixed lengths of 500, 1000, 1500 and 2000 mm.

Modular Roller **Conveyors**



Drop-off/ Pick-up Module

At the very beginning of the security lane, Drop-off modules allow the passenger to safely divest their personal effects to their bag or tray. Pick-up modules are available for tilted lanes to provide a braking effect for screened items. Drop-off/ Pick-up modules are applicable for the input and output side of X-ray inspection units.

Motorized Belt Conveyors

Motorized belt conveyors move items or trays automatically through the screening process. Thus, operator and passenger efforts are minimized. Motorized belt conveyors can be adjusted to a desired speed from 0.17 to 0.44 m/ sec in steps of 0.03 m/ sec. Depending on which side of the X-ray machine the motorized belt conveyor is installed, it has to be adjusted so that its speed is either lower or higher than of the X-ray machine's belt conveyor. Due to a lower speed a certain distance of items is provided on the input side and a faster procedure on the output side.

Separating Conveyor

With a separating conveyor on the input side, items are conveyed into the X-ray inspection unit separately to guarantee a defined distance between items or trays due to installed light barriers. This functionality prevents congestion on the input side and decreases operator efforts while increasing throughput rates and supports the image evaluation. Separating conveyors are adjustable to a desired speed of 0.16 and 0.21 m/ sec.

In total, max. two of these automated conveyors can be connected to one X-ray inspection unit.

Side Cover **Configurations**

Side covers are available in two versions to shield the bottom as well as the top side of the security lane. Customized checkpoints can be equipped with low, high or a combination of both side covers. Furthermore, these iLane.pro modules provide an attractive separation between operator and passenger areas.



Side Cover Modules



Side Covers Low

Low side covers are provided to cover the lower part of the security offering an attractive way of covering the mechanical aspects of the Checkpoint.



Side Covers High

As well as providing the same benefits as the low covers, the high side covers prevent passengers from reaching into the security lane or even into the X-ray tunnel.

Recheck Configurations

The introduction of iLane.pro recheck furniture and workstations can increase throughput rates by allowing security staff to re-inspect suspicious baggage separate from the actual screening area.

The recheck workstation provides operators with high resolution X-ray images, transmitted from the X-ray inspection unit directly to the iLane.pro recheck operator console.

iLane.pro recheck tables offer the ideal working area for operators to search for suspicious items. These tables are available in two different designs with several sizes and shapes to ensure an optimal application.



Recheck Modules



iLane.pro Design Tables

iLane.pro search tables are made of high quality sheet metal with a table surface of stainless steel for rough environments. These search tables can be combined with the iLane Operator Console RCHKt (see chapter 'iLane Operator Consoles'). iLane.pro search tables are available in square, rectangular and additionally in triangular shape. All search tables are designed to match the design of iLane.pro and when selected fit into an individual checkpoint layout perfectly.

Operator Consoles

iLane Operator Consoles for analyst and recheck workstations are the perfect addition to any security Checkpoint. The Operator consoles are available in a number of versions (detailed below) to meet the specification operator requirements. The Operator consoles are well designed using quality materials that are robust and easy to maintain. Furthermore all cables are routed internally eliminating the problem of unsightly cables. All operator consoles are available in one or two monitor versions and are mounted on swivel bases to provide precise adjustment.



Operator Consoles



Operator Consoles



Ergonomic Console

The ergonomic monitor console can be fixed directly to the X-ray inspection unit and provides a space-saving solution. To provide an optimal and ergonomic working posture for several operators, the entire console can be adjusted in height, with turnable monitor and keyboard



Height-Adjustable Consoles (HA)

This operator console is fully height adjustable supporting the ability to quickly change between sitting and standing positions and even adjustable for a person's particular height. The console is equipped with smooth running rollers. A small integrated drawer provides space for operators to lock away personal items.



Basic Sitting Consoles (BST)

This console is perfectly designed for applications where the X-ray operator is in the sitting position an unlike the HA version is not height adjustable.

Operator Consoles



Basic Standing Consoles (BSD)

The monitor console Basic Standing provides users with the same features as the Basic Sitting Console (BST). However, the BSD version is specifically designed for an operator in a standing position and again, this version is not height adjustable.

The following options can be added to the applicable consoles;

- Roller castor add-on kit for BST and BSD
- Lockable keyboard cover for HA, BST and BSD
- Palm rest for HA, BST and BSD



Recheck Operator Consoles

iLane.pro Operator Consoles RCHK address the special requirements and working conditions of the recheck area. To ensure convenient working conditions, monitor and keyboard are mounted on moveable arms. Two versions of the Recheck Operator Console (RCHK) are available:

- RCHKs with stand for easy integration in existing infrastructures.
- RCHKt is specially designed for use with iLane.pro recheck tables.

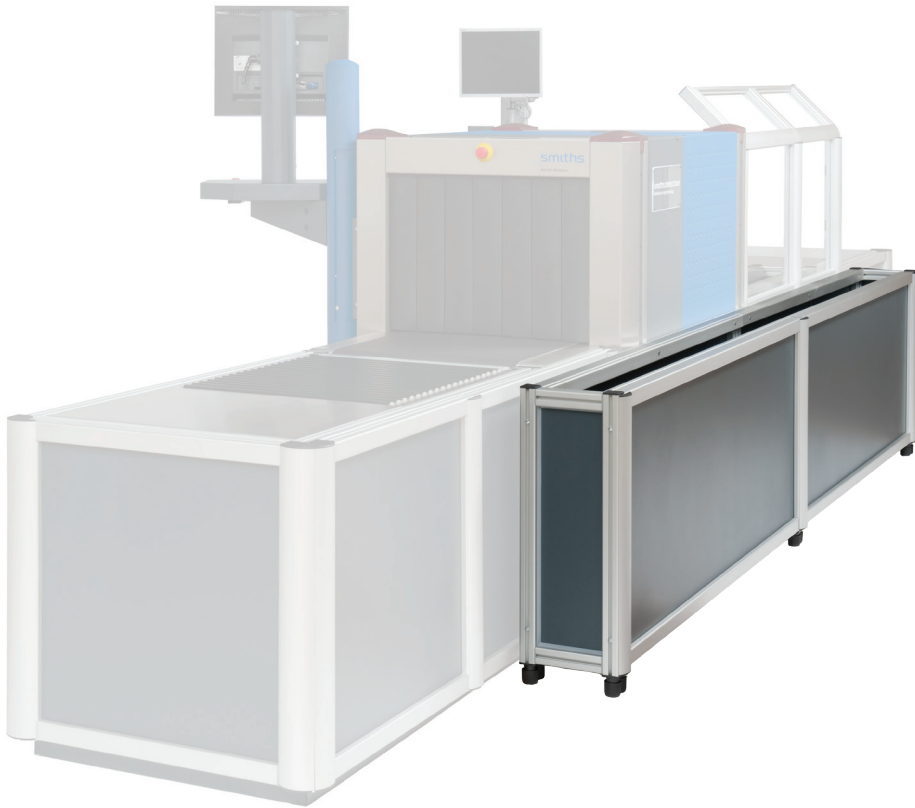


Two Monitor Version

iLane Operator Consoles are also provided in a two monitor version.

Tray Return System

Today's checkpoints are designed so that items to be screened require separate trays. Smiths Detection provides a gravity driven tray return system, which transfers empty trays back to the starting point of the security lane. In the new iLane.pro design, the tray return system saves operators valuable time otherwise spent carrying empty trays back to the beginning of the security lane. The tray return system is an option which can be fully customized to the length of the individual Checkpoint.



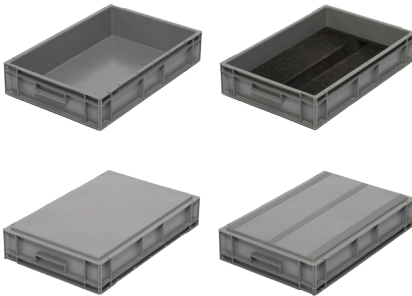
Tray Return Modules



Tray Return Modules

As mentioned previously the tray return system can be customized to the length of the security lane with modules lengths of 1200 mm and 1600 mm. The tray return system can be fixed to the ground for extra stability and the incline of the rollers inside the system can be adjusted to a maximum of 2 % for 10 m and 4 % for 5 m.

iLane Accessories



Trays

The common checkpoint procedure asks for screening in separate trays. Smiths Detection trays are available in two versions:

- tray without foam insert
- tray with foam insert

Additionally, the bottom side of the trays can be provided with anti-slip strips to avoid side slipping. All listed trays are useable for iLane. pro's tray return system.



Operator's Rest

Installed at the X-ray inspection system, operator's rests offer a back supporting function and provide an ergonomic working posture for security operators.



Tunnel Extension

Tunnel extensions can be mounted at both tunnel ends of the X-ray inspection unit. Tunnel extensions prevent passengers from reaching into the X-ray machine's tunnel.

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