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81 Series

# 81 Series

BROCHURE THRUVISION.COM

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**B1** Series '



## PASSIVE TERAHERTZ PEOPLE-SCREENING CAMERA

We are proud to introduce the 81 Series. This is the latest generation of industry disruptive people security screening technology.

The 81 Series comes in four models and its passive Terahertz camera technology is at the forefront of innovation.



# BENEFITS

## TREAT SUBJECTS WITH RESPECT

No physical pat-down of the subject is required.

#### RELIABLE

Built in redundancy and resilience supports mission critical operations.

#### **DETECTS ALL MATERIALS**

Clothing, liquids, electronics, tobacco, foodstuffs and paper

Guns and bladed weapons

Explosives

Drugs

#### FULLY INTEGRATED PLATFORM

All new modular design with integrated touchscreen control delivers a compact, mobile and unobtrusive solution with exceptional ergonomics for quick and easy deployment in a wide range of screening operations.

Battery powered option for up to 4 hours operation away from mains power.

#### RESPECTFUL OF PRIVACY

Cannot distinguish age, ethnicity or gender, and complies with GDPR.

#### **HIGH THROUGHPUT**

Screen up to 1,800 people/hour depending on ConOps and camera model.

#### SAFE FOR EVERYONE

Passive screening technology, safe for everyone including pregnant women and those with medical implants.

Detection-at-Range enables safe distance screening.

#### VISUALISE THE THREAT

Shows concealment size, shape and location to allow rapid decision making without the need for pat-down.







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# CUSTOMS AGENCIES

PRISONS 1111



## ENTRANCES



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## OPERATIONAL USAGE CONCEPTS

## SpotCHECK

## WalkTHRU

## WalkTHRU PLUS



## SpotCHECK

# WalkTHRU

UP TO 300 PEOPLE/HR

### **1 CAMERA**

Prioritise detection performance to screen for the smallest items.

Subject makes four 90° turns to screen full body, pausing for 2-3 seconds at each point.

2.5 m (8'2")

4.0 m (13'2")

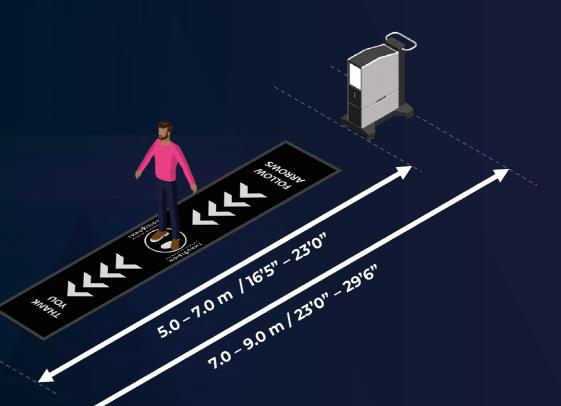
UP TO 600 PEOPLE/HR

2 CAMERAS

#### Balance throughput and detection performance when screening for a range of item sizes.

Subject walks along centreline of lane, and pauses for 2-3 sec in middle of lane.

Resolve detections in lane, or send subject to secondary screening area.





## WalkTHRU PLUS

9 m | 29'6"

7 m 123'0"

UP TO 1800 PEOPLE/HR

### 2 CAMERAS

## Prioritise absolute throughput when screening for larger items.

Subject follows optimised path through lane without pausing, designed to maximise system performance at very high flow rates.

Resolve detections in lane, or send subject to secondary screening area.

2m/

3 m 1 9'10"

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2 m/6'6"



## NEXT GENERATION SOFTWARE

## SmartSCREEN

Available exclusively for the 81 Series. **SmartSCREEN** is a powerful new package of smart software enhancements to expand functionality and enhance detection performance.

## DynamicDETECT

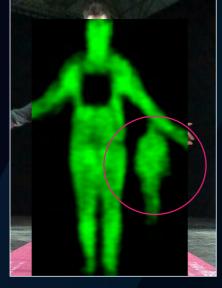
Available exclusively for the 81 Series, **DynamicDETECT** is an innovative Al-based automatic concealed item detection algorithm.

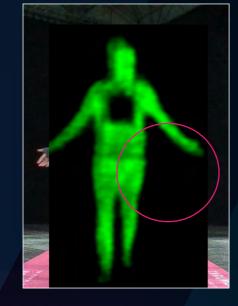




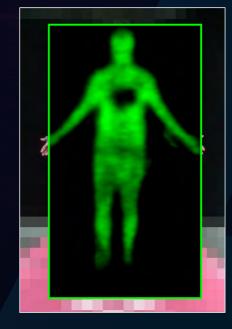








Example of SmartFocus with and without Terahertz background removal





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#### Example of SmartPrivacy

## Smart SCREEN

Powerful software features in one simple package, to expand functionality and optimise detection capability in a range of screening environments.

## SmartFocus

Automatically focuses attention on the person being screened by removing the background from the Terahertz image.

Removes operator distractions from the Terahertz image.

Optimises contrast for the best possible image quality on the person being screened, in all screening environments.

## SmartCount

Counts the number of people passing through your screening area.

Logs statistics to a simple text file for easy importation into spreadsheets and reports.

## SmartRecord

Detects when a person enters the screening area to automatically start recording.

Automatically stops recording when screening area is quiet.

Maximises system recording capacity.

Removes the need to search through hours of empty footage to find what you are looking for.

## SmartPrivacy

Obscures the identity of people and things in the background of the CCTV image to further enhance focus on the person being screened.

Optionally obscures the face of the person being screened to respect their privacy.



## Dynamic DETECT

## **ADVANCED AI TECHNOLOGY**

Advanced, AI-based concealed item detection designed to quickly and effectively identify the shape, size and location of concealed items on walking or stationary people.

## DETECT CONCEALED ITEMS

Easy to understand red overlays show the shape, size and location of concealed items.

### SUPPORTS RAPID DECISION MAKING

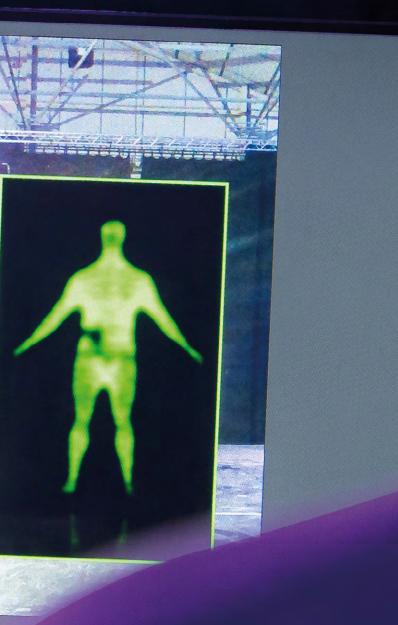
Quickly alerts operators to potential concealments.

### **DETECTION PERFORMANCE**

Highly effective detection performance with no need for physical 'pat-downs'.



8 16-SpotCHECK-SmartScreen-DD



## CAPABILITY & PERFORMANCE

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The 81 Series comprises four versatile models to suit a range of operational and performance requirements. The 81 Series is capable of detecting all types of non-metallic and metallic items, including clothing, liquids, electronics, tobacco, foodstuffs and paper.

8104	Cost-effective sensor for detecting stationary people.
8108	High-performance sensor for det objects on stationary people.
8115	High-performance sensor, optimi of large items on moving people.
8116	Very high-performance sensor fo items on both stationary and mov

### SOLUTION SELECTOR

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**B1** Series

CONCEPT OF	PEAK FLOW RATE	35CL SPIRITS	
OPERATIONS	(PEOPLE/HR)	9MM HANDGUN	
REPRESENTATIVE MINIMUM CONCEALED ITEM SIZE		ſ	
SpotCHECK	UP TO 300	8104	
WalkTHRU	UP TO 600 (WITH PAUSE)	8104	
WalkTHRU	600 - 1,200 (NO PAUSE)	8112	
PLUS	1,200 - 1,800 (NO PAUSE)	8116	

📕 Compatible with DynamicDETECT 📕 Requires SloScan (NOT compatible with DynamicDETECT) 📘 Compatible with SmartSCREEN

81 Series

#### ng large objects on

tecting a range of

ised for detection

or detecting small ving people.

METAL PACKET USB **CIGARETTES** PENDRIVE WATCH **KITCHEN** SMALL 50x50 MM DRUGS PENKNIFE Ν **KNIFE** D O W UK DUTY NAD 8104 8108 8116 8108 8116 8116



## SYSTEM BASES

## MAINS POWERED BASES

Sturdy integrated base for use where mains power is available

### RUGGED

Rugged wheels for quick and easy deployment

### VERSATILE

Supports all ConOps

## STURDY

Sturdy construction matches 81 Series cameras to give a fully integrated system

### SIMPLE

Simply plug in and switch on to get up and running

### **OPERATOR STATION**

Option includes high performance PC and touchscreen monitor for integrated screening system support

## **CAMERA STAND**

For supporting second camera in WalkTHRU and WalkTHRU Plus ConOps

Mains Operator Station: TV-MNT-OSM Mains Camera Stand: TV-MNT-CSM

## BATTERY POWERED BASES

Battery powered option for up to 4 hours standalone operation away from mains power

### **BATTERY PACK**

Designed for use with standard third-party battery pack

### OPTION

Both Operator Station and Camera Stand variants available

### **RUN-TIME**

Battery run-time up to 4 hours on a full-charge

#### **Battery Operator Station:** TV-MNT-OSB-UK/EU/US

Battery Camera Stand: TV-MNT-CSB-UK/EU/US



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## SEE THE UNSEEN

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