

THRUVISION



81 Series

THRUVISION.COM

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 three 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.





RETAIL DISTRIBUTION

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CUSTOMS AGENCIES



PRISONS



ENTRANCES



AVIATION

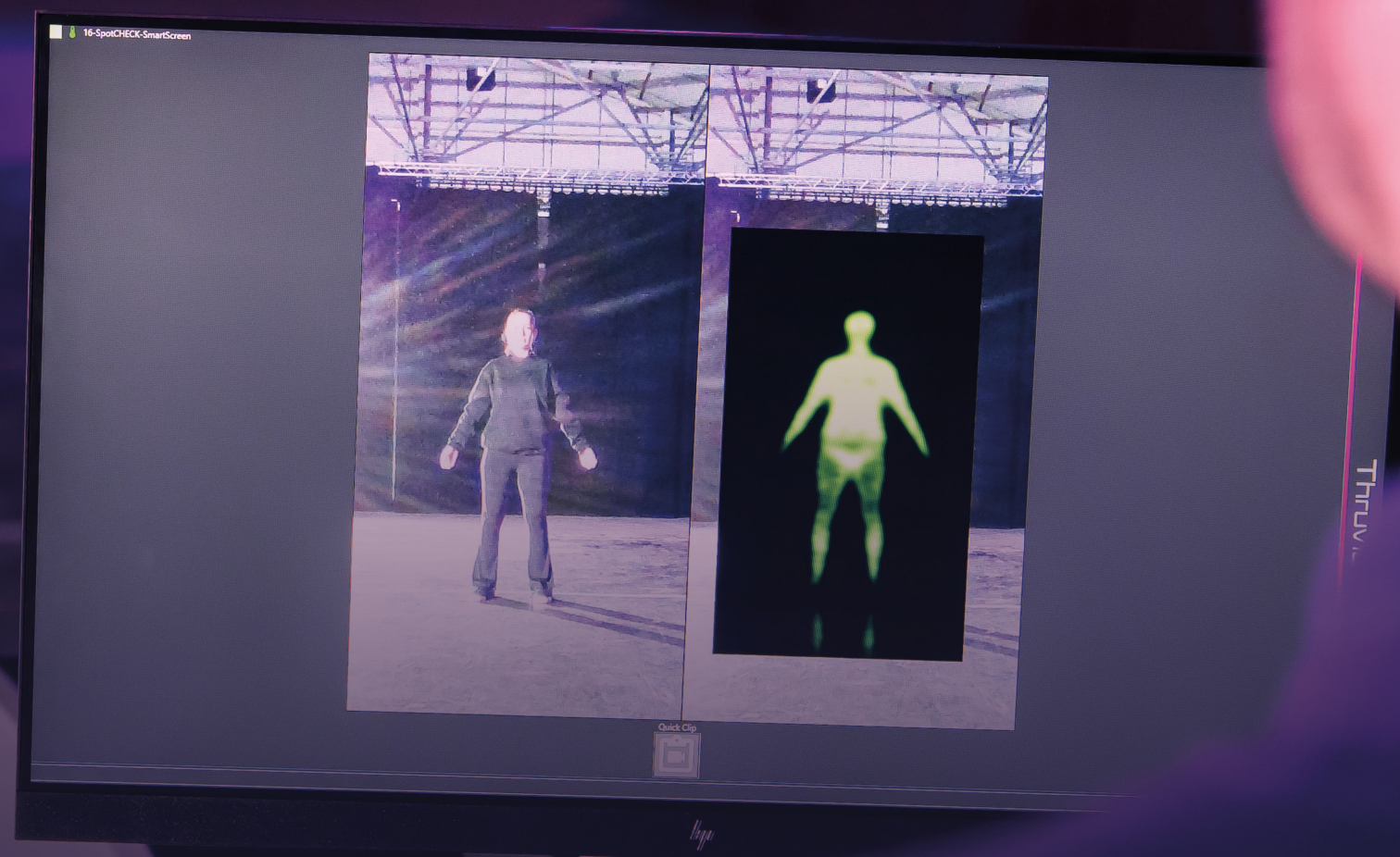
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OPERATIONAL USAGE CONCEPTS

SpotCHECK

WalkTHRU

WalkTHRU PLUS



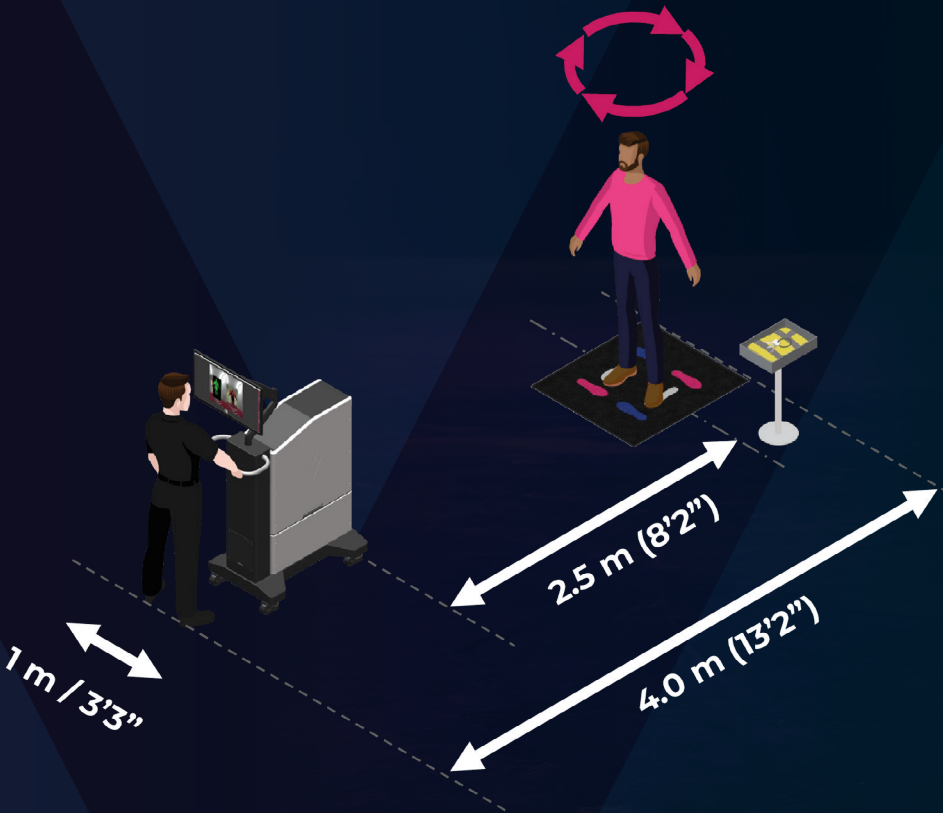
SpotCHECK

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.



WalkTHRU

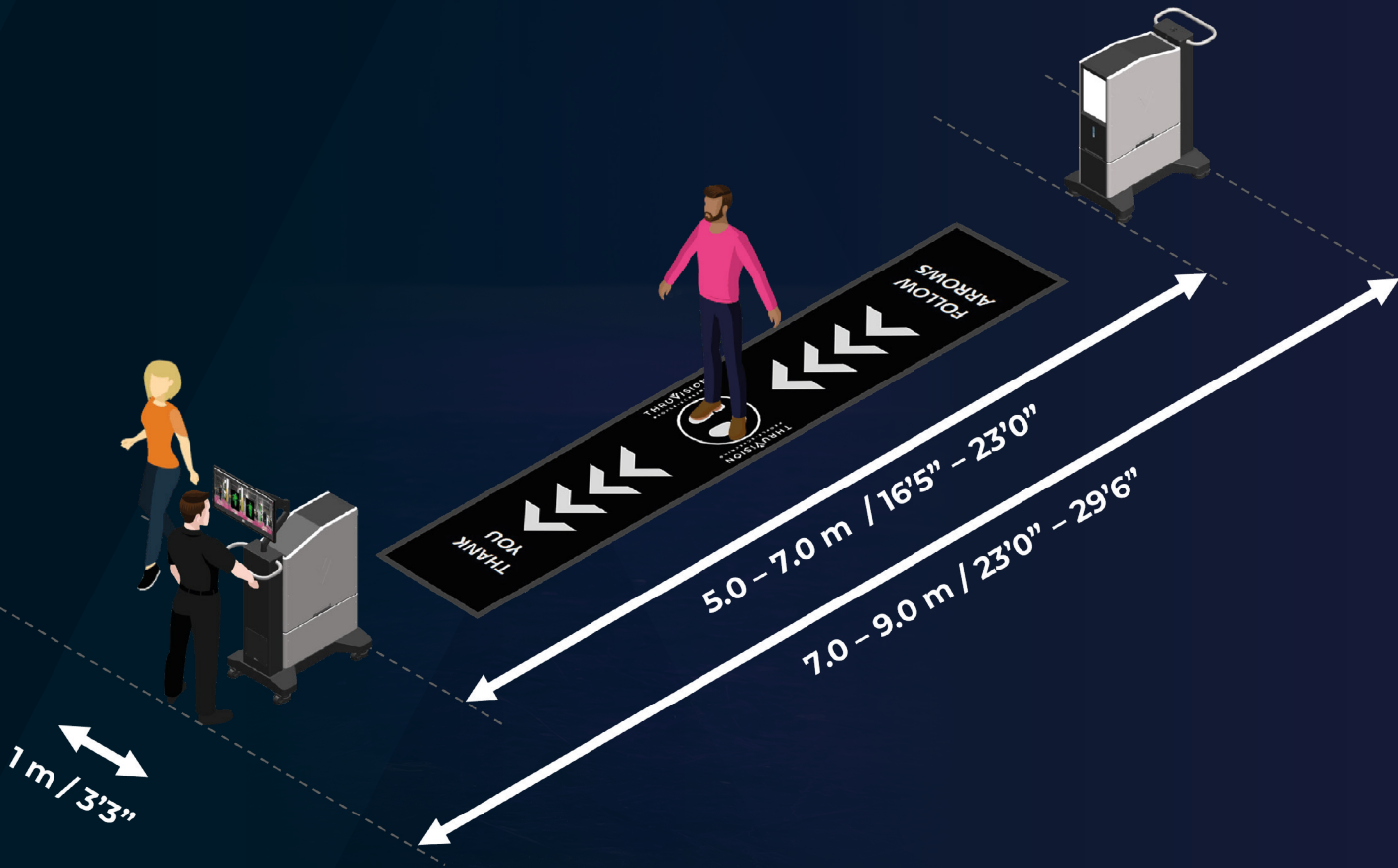
UP TO 600
PEOPLE/HR

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.



WaikTHRU PLUS

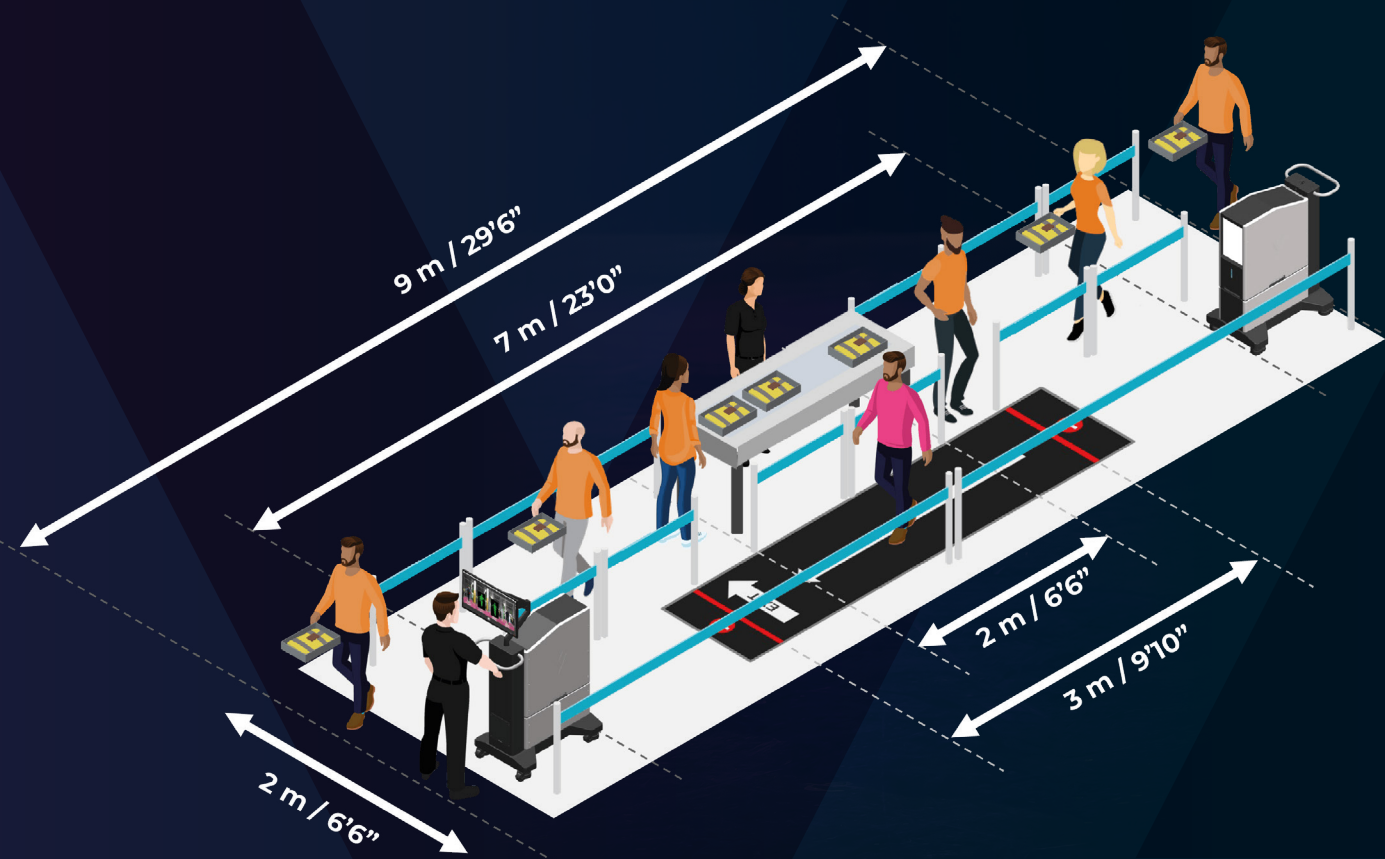
UP TO 1800
PEOPLE/HR

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.



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CAPABILITY & PERFORMANCE

The 81 Series comprises three 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 large objects on both stationary and moving people.
- 8108

High-performance sensor for detecting a range of objects on both stationary and moving people.
- 8116

Very high-performance sensor for detecting a range of objects on both stationary and moving people in very high throughput environments.

SOLUTION SELECTOR

CONCEPT OF OPERATIONS	PEAK FLOW RATE (PEOPLE/HR)	35CL SPIRITS		PACKET CIGARETTES		METAL WATCH		USB PENDRIVE	
		9MM HANDGUN		KITCHEN KNIFE		50x50 MM DRUGS		SMALL PENKNIFE	
REPRESENTATIVE MINIMUM CONCEALED ITEM SIZE When used within optimum ambient temperature range (18-22°C / 64-72°F)									
SpotCHECK	UP TO 300	8104		8104		8108		8116	
WalkTHRU	UP TO 600 (WITH PAUSE)	8104		8108		8116			
WalkTHRU PLUS	600 - 1,200 (NO PAUSE)	8108		8116					
	1,200 - 1,800 (NO PAUSE)	8116							

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

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.

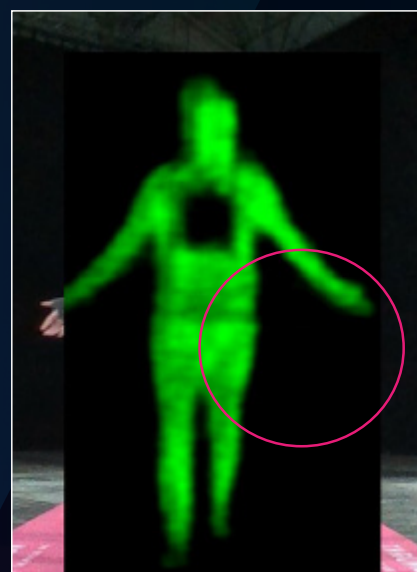
DynamicDETECT

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

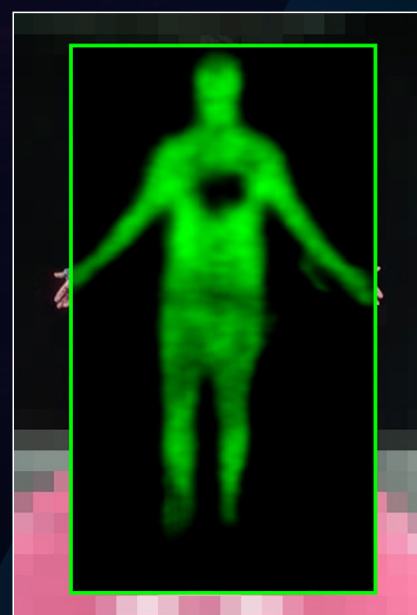
DDAlert

Adds an automatic operator alert mode to DynamicDETECT to indicate whether a person is concealing items.





Example of SmartFocus with and without Terahertz background removal



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.

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.

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.

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

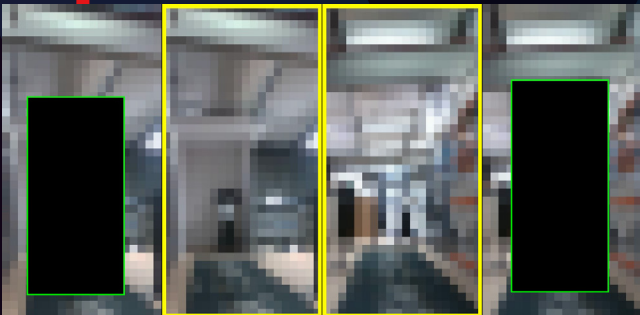
Quickly alerts operators to potential concealments.

DETECTION PERFORMANCE

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



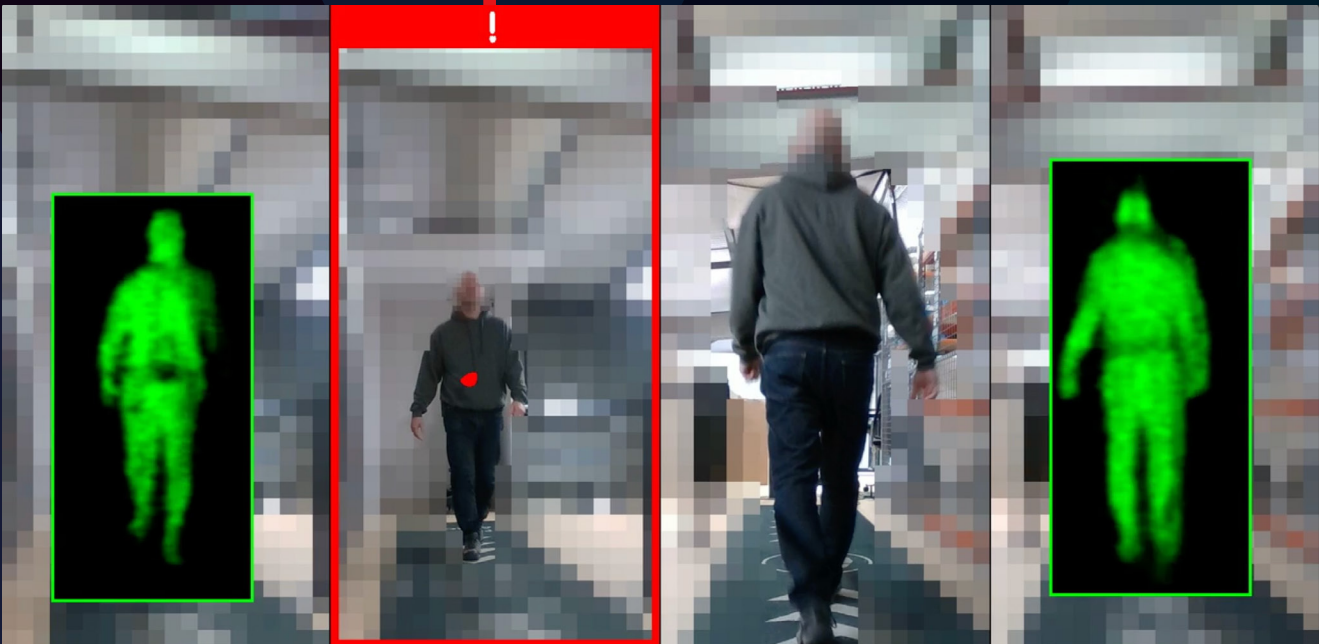
DDALERT



READY TO SCREEN



SCREENING



DETECTION

AUTOMATIC OPERATOR ALERT MODE FOR DynamicDETECT

DDAlert alerts the operator with clear visual and audible signals to ensure that they never miss a detection.

FEATURES

Adds an automatic operator alert mode to DynamicDETECT to indicate whether a person is concealing items.

Clear visual and audible alerts.

Retains ability for operator to monitor real-time THz imagery.

Supports quick review of detection events for audit, investigation or training purposes.

BENEFITS

Ensures consistency of detection – reduces dependency on skill and attentiveness of operator.

Reduces operator workload, enabling them to concentrate on managing the screening process.

Compatible with existing 81 Series systems.*

*A SmartSCREEN license will be required to enable DDAlert. This can be added to compatible systems if not already installed.

SOLUTION SELECTOR

CONOPS	PEAK FLOW RATE (PEOPLE/HR)	BODY COVERAGE	REPRESENTATIVE MINIMUM CONCEALED ITEM SIZES FOR 8108 CAMERA MODEL	
			When used within optimum ambient temperature range (18-22°C / 64-72°F)	
SpotCHECK	UP TO 300	FULL		PACKET OF CIGARETTES
WalkTHRU	UP TO 600 (WITH PAUSE)	FRONT/REAR		35CL SPIRITS
WalkTHRU Plus	600 - 1,200 (NO PAUSE)	FRONT/REAR		TRAINERS

SYSTEM BASES

MAINS POWERED BASES

Sturdy integrated base for use where mains power is available

RUGGED

Rugged wheels for quick and easy deployment

STURDY

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

VERSATILE

Supports all ConOps

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





**SEE THE
UNSEEN**

THRUVISION



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