Bl Series





THRUVISION

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PASSIVE TERAHERTZ PEOPLE-SCREENING CAMERA

Thruvision 8104 is a cost-effective peoplescreening camera, designed and optimised to detect large items on both stationary and moving people.

BENEFITS

COMPREHENSIVE SECURITY

Detects all types of metallic and non-metallic materials, including clothing, liquids, electronics, tobacco, foodstuffs and paper.

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

RESPECTFUL

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

SAFE

Safe for everyone, including pregnant women, children and people with implanted medical devices.

RELIABLE

Built-in redundancy and resilience supports mission critical operations.

FEATURES

PATENTED SENSOR TECHNOLOGY

Features Thruvision's patented sensor technology, optimised to detect large items on both stationary and moving people.

SmartSCREEN READY

8104 features built-in hardware support for Thruvision's intelligent SmartSCREEN software feature package.

DynamicDETECT READY

8104 features built-in support for Thruvision's unique Al-based automatic concealed item detection software.

DESIGN

NEW FULLY INTEGRATED PLATFORM DESIGN

Mobile, modular design provides a convenient operating platform for screening operations.

Integrated high-performance PC with touchscreen display.

Rugged wheels for rapid deployment.

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

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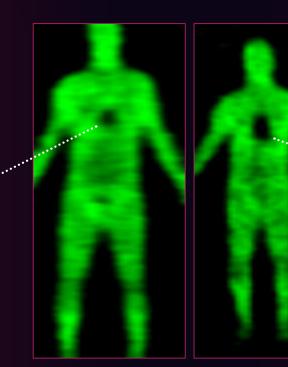
8104

DETECTION CAPABILITY

SpotCHECK

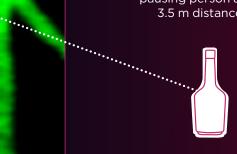
Packet of cigarettes detected on stationary person at 2.5 m distance.





WalkTHRU

35 cl bottle of alcohol detected on pausing person at 3.5 m distance.



CONCEPT OF	PEAK FLOW RATE	35CL SPIRITS	PACKET CIGARETTES	METAL WATCH	USB PENDRIVE	
OPERATIONS	(PEOPLE/HR)	9MM HANDGUN	KITCHEN KNIFE	50x50 MM DRUGS	SMALL PENKNIFE	
REPRESENTATIVE MINIMUM CONCEALED ITEM SIZE						
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				

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

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CAMERA SPECIFICATIONS

MODEL NUMBER	TV-CAM-8104				
CAMERA					
Terahertz Sensor	Passive, high-performance sensor, operating at 250 GHz frequency				
Terahertz Image Refresh Rate	Up to 14 lines per second, depending on scan mode				
Screening Field Of View At 3m / 9.8 ft	H 1.8 m (70.9 in) W 0.8 m (31.5 in)				
Video Camera	Colour HD stereo vision depth camera				
Video Camera Frame-Rate	15 fp				
Optimum Screening Distance	2.5 - 3.5 m (8.2 - 11.2 ft)				
ELECTRICAL					
Operating Voltage	Rated range 100 to 240 V a.c., 50 to 60 Hz				
Power Consumption	140 W Max				
Connectivity	Mains a.c. (power), Ethernet (data)				
PHYSICAL					
Dimensions	H 633 mm (24.9 in) L 635 mm (25.0 in) W 285 mm (11.2 in)				
Weight	34 kg (75 lb)				
ENVIRONMENTAL					
Ambient Air Operating Temperature	5 - 28 °C (41 - 82 °F)				
Optimum Ambient Air Operating Temperature	18 - 22 °C (64 - 72 °F				
Storage Temperature	0 - 40 °C (32 - 104 °F)				
Ambient Operating Environment	Indoors, dry and preferably air-conditioned location				
Operating Humidity	20 to 90 % RH, non-condensing				
Maximum Operating Altitude AMSL	2,000 m (6,560 ft)				
APPROVALS & PATEN	rs				
Conformity	CE, UKCA				
EMC	EN 55032:2015 + A11:2020 (emissions), EN 55035:2017 + A11:2020 (immunity), EN 61000-3-2:2019, EN 61000-3-3:2013 + A1:2019, 47 CFR Part 15B (FCC)				
Safety	CB, IEC 62368-1:2018, EN IEC 62368-1:2020 + A11:2020, AS/NZS 62368:1:2022, CSA C22.2 No. 62368-1:19, JIS C 62368-1 (2021), UL 62368-1:2019				
Vibration	ETSI EN 300-019-2-2 (T2.2 vibration) when transported in original Thruvision packaging				
Patents	See www.thruvision.com/patents for details				

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STAND SPECIFICATIONS

	OPERATOR STATIONS				CAMERA STANDS				
Туре	Mains						Battery		
Model No: TV-MNT-	OSM	OSB-UK	OSB-EU	OSB-US	Mains CSM	CSB-UK	CSB-EU	CSB-US	
Description	Mains powered Operator Station	Operator Station for UK spec battery	Operator Station for EU spec battery	Operator Station for US spec battery	Mains powered Camera Stand	Camera Stand for UK spec battery	Camera Stand for EU spec battery	Camera Stand for US spec battery	
COMPATIBIL:	ITY								
Recommended Usage		SpotCHEC	K, WalkTHRU, V	ValkTHRU Plus		WalkTHRU, WalkTHRU Plus			
ELECTRICAL									
Rated Voltage Range & Frequency	100-240 V a.c., 50-60 Hz	220 to 240 V a.c., 50/60 Hz	230 V a.c., 50 Hz	100 to 120 V a.c., 50/60 Hz	100-240 V a.c., 50-60 Hz	220 - 240 V a.c., 50/60 Hz	230 V a.c., 50/60 Hz	100 to 120 V a.c., 50/60 Hz	
Power Consumption (Max With Camera)	700 W	1,700 W			160 W	1,160 W			
External Connections	Mains a.c	Mains a.c. (power), RJ45 Ethernet (data), HDMI, USB3				Mains a.c. (power), RJ45 Ethernet (data)			
COMPUTE									
Processor		8th Gen Intel Core i7			N/A				
RAM		16 GB DDR4 dual-channel RAM			N/A				
Storage		500 GB SSD (Boot/OS), 2 TB HDD (Storage)			N/A				
GPU		NVIDIA RTX 3060Ti			N/A				
Operating System		Microsoft	Windows 10 Ent	terprise 64-bit	N/A				
DISPLAY									
Screen Diagonal	60.5 cm (23.8 in)				N/A				
Screen Type	IPS touchscreen				N/A				
Native Resolution	1,920 x 1,080 px				N/A				
Aspect Ratio		16:9			N/A				
Brightness (Typical)		300 cd/m²			N/A				
Static Contrast Ratio (Typical)		1,000:1				N/A			
PHYSICAL									
Dimensions H x L x W		Mains type: 1,659 x 925 x 539 mm (65.3 x 36.4 x 21.2 in) Battery types: 1,659 x 1,120 x 547 mm (65.3 x 44.1 x 21.5 in)			Mains type: 1,110 x 925 x 539 mm (43.7 x 36.4 x 21.2 in) Battery types: 1,110 x 1,120 x 547 mm (43.7 x 44.1 x 21.5 in)				
Weight (with camera)		Mains type: 85 kg (187 lb) Battery types: 107 kg (236 lb)			Mains type: 71 kg (156 lb) Battery types: 93 kg (205 lb)				
ENVIRONMEN	ITAL								
Ambient Indoors, dry and preferably air-conditioned location									
Operating Temp							5 to 28 °	C (41 to 82 °F)	
Relative Humidity		20 to 80% RH, non-condensing						on-condensing	
Storage Temp	0 to 55 °C (32 to 131 °F)								
Operating Altitude (Max)	2,000 m (6,560 ft) AMSL								
APPROVALS									
Conformity								CE, UKCA	
EMC		EN 55032:2015 + A11:2020 (emissions), EN 55035:2017 + A11:2020 (immunity), EN 61000-3-2:2019, EN 61000-3-3:2013 + A1:2019, 47 CFR Part 15B (FCC)							
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