Bl Series





THRUVISION

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PASSIVE TERAHERTZ PEOPLE-SCREENING CAMERA

Thruvision 8108 is a high-performance people-screening camera, designed and optimised to detect a range of 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 a range of items on both stationary and moving people.

SmartSCREEN READY

8108 features built-in hardware support for Thruvision's intelligent SmartSCREEN software feature package.

DynamicDETECT READY

8108 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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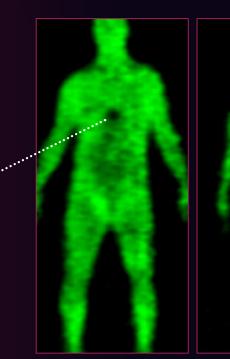
8108

DETECTION CAPABILITY

SpotCHECK

50 x 50 mm packet of drugs detected on stationary person at 2.5 m distance.







35 cl bottle of alcohol detected on walking 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-8108							
CAMERA								
Terahertz Sensor	Passive, high-performance sense operating at 250 GHz frequen							
Terahertz Image Refresh Rate	Up to 14 lines/sec, 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 f							
Optimum Screening Distance	2.5 - 3.5 m (8.2 - 11.2 f							
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		Mains		Battery		
Model No: TV-MNT-	OSM	OSB-UK	OSB-EU	OSB-US	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		SpotCHECK, WalkTHRU, WalkTHRU 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	00 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 Ge	en 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 Environment	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	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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