81 Series

8108





PASSIVE TERAHERTZ PEOPLE-SCREENING CAMERA

Thruvision 8108 is a high-performance camera, optimised for SpotCHECK and WalkTHRU, and designed to detect a range of items on stationary 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

SENSOR TECHNOLOGY OPTIMISED FOR SPOTCHECK & WALKTHRU

Features Thruvision's patented high-performance sensor technology, optimised for the screening of stationary people.

SmartSCREEN READY

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

Dynamic DETECT 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.

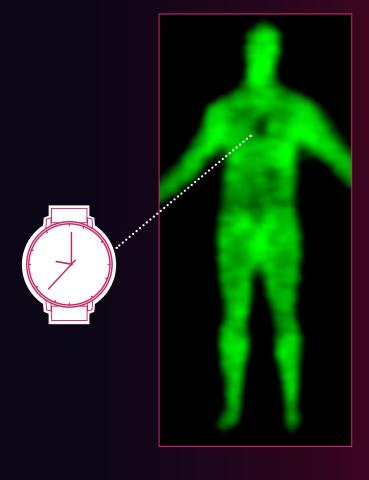






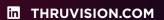
DETECTION CAPABILITY

Image shows 50 x 50 mm metal watch detected on stationary person at 3.5 m distance.



CONCEPT OF	PEAK FLOW RATE	35CL SPIRITS		PACKET CIGARETTES		METAL WATCH		USB PENDRIVE	
OPERATIONS	(PEOPLE/HR)	9M HAND		KITCHEN KNIFE		50x50 MM DRUGS		SMALL PENKNIFE	
REPRESENTATIVE MINIMUM CONCEALED ITEM SIZE				IN THE STATE OF TH					
SpotCHECK	UP TO 300	8104		8104		8108		8116	
WalkTHRU	UP TO 600 (WITH PAUSE)	8104		8108		8116			
WalkTHRU PLUS	600 - 1,200 (NO PAUSE)	8112		8116					
	1,200 - 1,800 (NO PAUSE)	81	16						

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

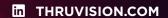






CAMERA SPECIFICATIONS

CAMERA					
Terahertz Sensor	Passive, high-performance senso operating at 250 GHz frequenc				
Terahertz Image Refresh Rate	Up to 14 lines/sec, depending on scan mod				
Screening Field Of View At 3m / 9.8 ft	H 1.8 m (70.9 in) W 0.8 m (31.5				
Video Camera	Colour HD stereo vision depth camera				
Video Camera Frame-Rate	15 f _i				
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 H				
Power Consumption	140 W Max				
Connectivity	Mains a.c. (power), Ethernet (data)				
PHYSICAL					
Dimensions	H 610 mm (24.0 in) L 625 mm (24.6 in) W 253 mm (10.0 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	тѕ				
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				







STAND SPECIFICATIONS

	OPERATOR STATIONS				CAMERA STANDS				
Туре	Mains		Battery		Mains		Battery		
Part No: TV-MNT-	OSM	OSB-UK	OSB-EU	OSB-US	СЅМ	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	ΙΤΥ								
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		1,700 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	n 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 Enterprise 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: 1,645 x 925 x 525 mm (64.8 x 36.4 x 20.7 in) Battery types: 1,645 x 1,062 x 535 mm (64.8 x 41.8 x 21.1 in)			Mains type: 1,060 x 925 x 525 mm (41.7x 36.4 x 20.7 in) Battery types: 1,060 x 1,062 x 535 mm (41.7x 41.8 x 21.1 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	TAL								
Ambient Environment					Indoors	s, dry and prefe	rably air-condit	ioned location	
Operating Temp	5 to 28 °C (41 to 82 °F)								
Relative Humidity	20 to 80% RH, non-condensing								
Storage Temp	0 to 55 °C (32 to 131 °F)								
Operating Altitude (Max)							2,000 m (6	5,560 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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