Bl Series





THRUVISION



PASSIVE TERAHERTZ PEOPLE-SCREENING CAMERA

Thruvision 8116 is a high-performance camera, optimised for WalkTHRU Plus screening, and designed to detect smaller items on 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

ULTIMATE SENSOR TECHNOLOGY

Features Thruvision's patented very high-performance 16-channel sensor technology, combining speed and resolution to give the ultimate screening performance in all ConOps.

SmartSCREEN READY

8116 features built-in hardware support for Thruvision's intelligent SmartSCREEN software feature package.

DynamicDETECT READY

8116 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.

THRUVISION

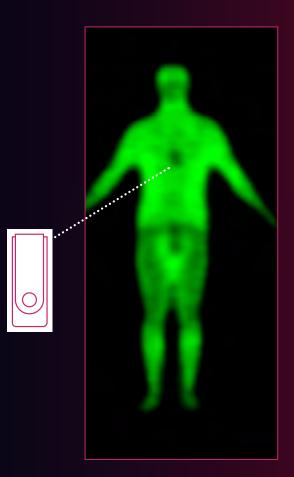
in THRUVISION.COM

E&OE. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



DETECTION CAPABILITY

Image shows a USB pendrive detected on a stationary 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)	8112	8116			
	1,200 - 1,800 (NO PAUSE)	8116				

in THRUVISION.COM

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

THRUVISION

E&OE. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



CAMERA SPECIFICATIONS

CAMERA								
Terahertz Sensor	Passive, very high-performance senso operating at 250 GHz frequency							
Terahertz Image Refresh Rate	Up to 28 lines/sec, depending on scan mo							
Screening Field Of View At 3m / 9.8 ft	H 1.8 m (70.9 in) W 1.1 m (43.3 in)							
Video Camera	Colour HD stereo vision depth came							
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 610 mm (24.0 in) L 625 mm (24.6 in) W 253 mm (10.0 in)							
Weight	34 kg (75 lb)							
ENVIRONMENTAL								
ENVIRONMENTAL								
ENVIRONMENTAL Ambient Air Operating Temperature	5 - 28 °C (41 - 82 °F)							
	5 - 28 °C (41 - 82 °F) 18 - 22 °C (64 - 72 °F)							
Ambient Air Operating Temperature Optimum Ambient Air Operating								
Ambient Air Operating Temperature Optimum Ambient Air Operating Temperature	18 - 22 °C (64 - 72 °F)							
Ambient Air Operating Temperature Optimum Ambient Air Operating Temperature Storage Temperature	18 - 22 °C (64 - 72 °F) 0 - 40 °C (32 - 104 °F)							
Ambient Air Operating Temperature Optimum Ambient Air Operating Temperature Storage Temperature Ambient Operating Environment	18 - 22 °C (64 - 72 °F) 0 - 40 °C (32 - 104 °F) Indoors, dry and preferably air-conditioned location							
Ambient Air Operating Temperature Optimum Ambient Air Operating Temperature Storage Temperature Ambient Operating Environment Operating Humidity	18 - 22 °C (64 - 72 °F) O - 40 °C (32 - 104 °F) Indoors, dry and preferably air-conditioned location 20 to 90 % RH, non-condensing 2,000 m (6,560 ft)							
Ambient Air Operating TemperatureOptimum Ambient Air Operating TemperatureStorage TemperatureAmbient Operating EnvironmentOperating HumidityMaximum Operating Altitude AMSL	18 - 22 °C (64 - 72 °F) 0 - 40 °C (32 - 104 °F) Indoors, dry and preferably air-conditioned location 20 to 90 % RH, non-condensing 2,000 m (6,560 ft)							
Ambient Air Operating Temperature Optimum Ambient Air Operating Temperature Storage Temperature Ambient Operating Environment Operating Humidity Maximum Operating Altitude AMSL APPROVALS & PATEN	18 - 22 °C (64 - 72 °F) O - 40 °C (32 - 104 °F) Indoors, dry and preferably air-conditioned location 20 to 90 % RH, non-condensing 2,000 m (6,560 ft)							
Ambient Air Operating Temperature Optimum Ambient Air Operating Temperature Storage Temperature Ambient Operating Environment Operating Humidity Maximum Operating Altitude AMSL APPROVALS & PATENT Product Conformity	18 - 22 °C (64 - 72 °F) 0 - 40 °C (32 - 104 °F) Indoors, dry and preferably air-conditioned location 20 to 90 % RH, non-condensing 2,000 m (6,560 ft) TS CE, UKCA, 47 CFR Part 15B (FCC)							
Ambient Air Operating Temperature Optimum Ambient Air Operating Temperature Storage Temperature Ambient Operating Environment Operating Humidity Maximum Operating Altitude AMSL APPROVALS & PATEN Product Conformity EMC Emissions	18 - 22 °C (64 - 72 °F) 0 - 40 °C (32 - 104 °F) Indoors, dry and preferably air-conditioned location 20 to 90 % RH, non-condensing 2,000 m (6,560 ft) TS CE, UKCA, 47 CFR Part 15B (FCC) EN 55032:2015 + A11:2020							
Ambient Air Operating Temperature Optimum Ambient Air Operating Temperature Storage Temperature Ambient Operating Environment Operating Humidity Maximum Operating Altitude AMSL APPROVALS & PATEN Product Conformity EMC Emissions EMC Immunity	18 - 22 °C (64 - 72 °F) 0 - 40 °C (32 - 104 °F) Indoors, dry and preferably air-conditioned location 20 to 90 % RH, non-condensing 2,000 m (6,560 ft) TS CE, UKCA, 47 CFR Part 15B (FCC) EN 55032:2015 + A11:2020 EN 55035:2017 + A11:2020 EN IEC 62368-1:2020 + A11:2020, IEC 62368-1:2018,							



8116

STAND SPECIFICATIONS

	OPERATOR STATIONS				CAMERA STANDS				
Туре	Mains		Battery		Mains		Battery		
		OSB-UK				CSD UK	CSB-EU	CSB-US	
Part No: TV-MNT-	OSM Mains powered Operator Station	OSB-UK Operator Station for UK spec battery	OSB-EU Operator Station for EU spec battery	OSB-US Operator Station for US spec battery	CSM Mains powered Camera Stand	CSB-UK Camera Stand for UK spec battery	CSB-EU Camera Stand for EU spec battery	CSB-US Camera Stand for US spec battery	
COMPATIBIL	ſΤΥ			<u></u>			I		
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	700 W 1,700 W			160 W	160 W 1,160 W			
External Connections	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							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 (41.7x41.8x21.1 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, dry and preferably air-conditioned 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 (6,560 ft) AMSL								
APPROVALS									
Conformity						CE,	UKCA, 47 CFR	Part 15B (FCC)	
EMC Emissions		EN 55032:2015 + A11:2020							
EMC Immunity		EN 55035:2017 + A11:2020							
Safety	EN IEC 62368-1:2020 + A11:2020, IEC 62368-1:2018, UL/CSA 62368-1:2019								

THRUVISION

E&OE. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE