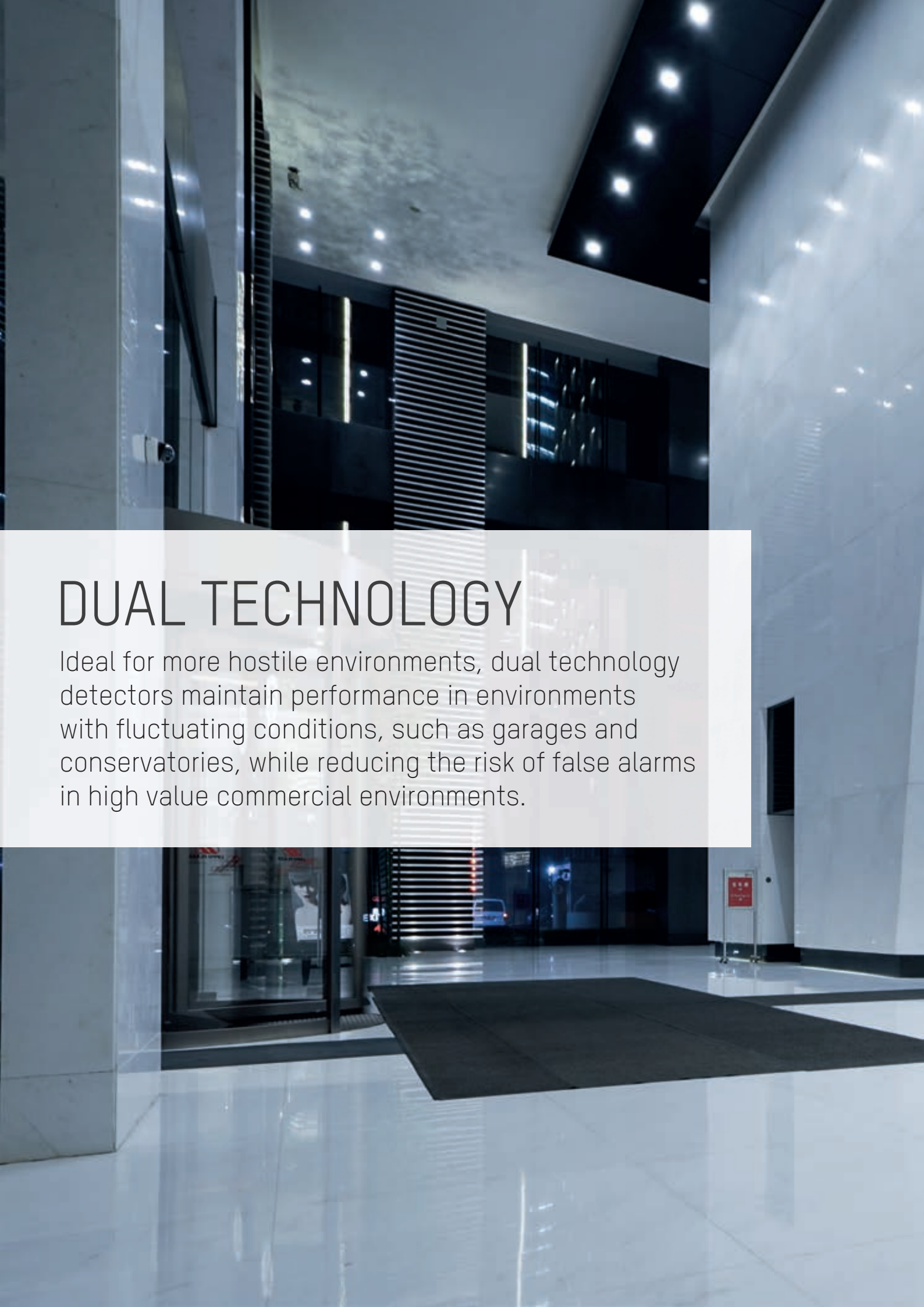


A modern building interior with a high ceiling and glass walls. The ceiling is white with several recessed circular lights. The walls are made of large glass panels, some of which are reflecting the interior lights. In the background, there are dark, vertical slatted partitions and more glass walls. The floor is a light-colored, polished material that reflects the lights. A small security camera is mounted on the wall to the left.

DUAL TECHNOLOGY

Ideal for more hostile environments, dual technology detectors maintain performance in environments with fluctuating conditions, such as garages and conservatories, while reducing the risk of false alarms in high value commercial environments.

DUAL TECHNOLOGY DETECTORS

INDOOR GRADE 2 AND 3 DETECTORS

Any areas with changing conditions, such as fluctuating temperatures, draughts and/or sunlight, can cause false alarm activations with traditional detection technologies. Pyronix dual technology detectors provide the ideal solution; delivering greater stability and maintaining intruder catch performance in entrance halls, conservatories and workshops, while providing a greater level of security in higher risk commercial applications.



Dual technology

Combining a low noise dual element pyroelectric sensor (PIR) and Microwave Doppler Sensor (MW) in one housing. With this dual technology, both PIR and MW sensors have to be activated simultaneously to generate an alarm condition. This increases stability and maintains intruder catch performance in hostile environments, while reducing the risk of false alarms.



Different microwave frequencies

Avoids interference (cross-talk) that can occur when two detectors with microwave modules are installed within close proximity of each other. This optimises installation stability.



Variety of detection ranges

Offering 10m to 30m detection ranges to provide the ideal coverage of entrance halls, conservatories, corridors and more.



Grade 3 variants

The Pyronix range of indoor dual technology detectors also offer Grade 3 options, featuring anti-interference technologies. This consists of anti-masking, anti-blocking, as well as AND/OR anti-cloaking.



Anti-cloaking

This changes the method of activating a dual technology detector; either triggering both PIR and microwave technologies or activating either technology individually to initiate an alarm condition.



Two-way wireless technology

The wireless variants employ this award-winning technology to deliver easy installation without compromising on reliability or security, with Signal Strength Indicators (SSI), one-push-to-learn, 128-bit encryption, long range signalling, dual antennas and Instant Two-way Device Control (ITDC) features.



Easy wired installation

The wired variants incorporate EOL tamper, alarm and mask resistor values to cater for DEOL and 3EOL wiring for most control panels on the market.



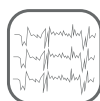
Flexible coverage patterns

The range delivers a choice of volumetric, curtain and long range coverage patterns, to cater for any installation.



Blue Wave Technology (BWT)

Advanced signal processing and 3D optics safeguard against false alarms and improve immunity to interference.



Independent Floating Thresholds (IFT)

IFT technology ensures that the alarm thresholds are always kept within predetermined limits, eliminating electrical environmental disturbances.



Digital temperature compensation

Digitally adjusts the sensitivity of the detector to maintain its specified range when the background temperature is near to body temperature.

KX DETECTORS

ENFORCER WIRELESS INDOOR DUAL TECHNOLOGY DETECTORS

The ideal detection solution for any hostile environments where cabling would be unsuitable; providing stable and reliable performance, with fast and efficient installation.

KEY FEATURES

- ▶ From 10m up to 12m range variants
- ▶ Blue Wave Technology (BWT)
- ▶ Pet Immune option
- ▶ Grade 2
- ▶ Two-way wireless technology
- ▶ One-push-to-learn

Compatible with:



KX10DTP-WE

KX12DT-WE

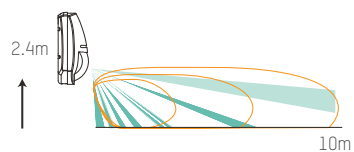
Optical and range features		
Maximum range	10m	12m
Optimal installation height	1.8-2.4m	1.8-2.4m
Creep-zone protection	✗	✓
Specification features		
Animal immune	<24kg	✗
Blue Wave Technology (BWT)	✓	✓
Automatic sensitivity	✓	✓
Digital temperature compensation	✓	✓
Anti-cloaking	✗	✗
Separate indication: microwave, PIR and alarm	✓	✓
3 microwave frequencies to avoid interference	✓	✓
Tamper protection included	✓	✓
Signal Strength Indicators (SSI)	✓	✓
Wireless electrical specifications		
Transmission frequency	868MHz, FM transceiver	
Transmission method	128-bit encrypted radio protocol	
3V Lithium battery included	2 x CR123A	
Minimum battery life (years)	2	
Electrical specifications		
RFI immunity from continuous wave (CW), modulated wave (AM) and pulse (PM) 80-2700MHz	25 V/m	
Microwave frequency	10.515, 10.525, 10.535GHz	
Alarm response	-	
Detection speed	0.3 - 3m/s	
Direct light filter	>6500 Lux	
Optics	Sealed	
Geometric lens configuration	3D	
Other details		
Operating temperature	-10°C to +40°C	
Weight	135g	
Dimensions (W x H x D)	69 x 117 x 59 mm	
Accessories		
Wall/ceiling brackets (KXBRACKET-C, KXBRACKET-W)	Sold separately	
Long range and curtain lenses (KX30-LR e KX18-LC)	Sold separately	
Bracket back tamper kit	Sold separately	
Certification		
EN50131	Grade 2	Grade 2
Environmental class	II	II
SAP Code: International	361300018	361300020
SAP Code: Czech, Austria, France	361300017	361300019

LENS DIAGRAMS

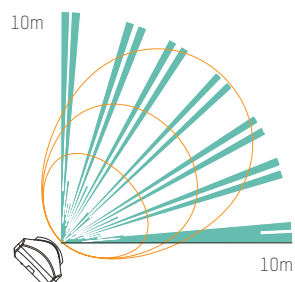
ENFORCER WIRELESS INDOOR DUAL TECHNOLOGY DETECTORS

KX10DTP-WE and KX10DTP - volumetric lens

Vertical coverage

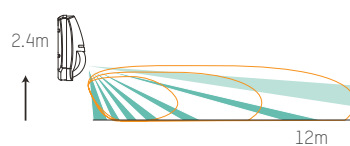


Horizontal coverage

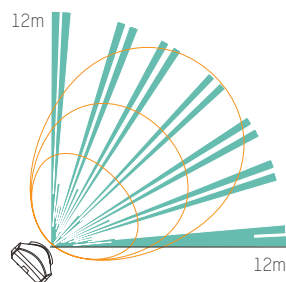


KX12DT-WE - volumetric lens

Vertical coverage



Horizontal coverage



KX DETECTORS

WIRED INDOOR DUAL TECHNOLOGY DETECTORS

For any wired installation requiring secure detection in hostile environments, the KX offers the ideal solution. Easy to install with on-board EOL resistors and adapting to its environment, the range even has a Grade 3 variant to suit any installation need.

KEY FEATURES

- ▶ From 10m up to 30m range variants
- ▶ Blue Wave Technology (BWT)
- ▶ Pet Immune variant
- ▶ Anti-masking variant
- ▶ Grade 2 and Grade 3 options
- ▶ Onboard EOL resistors

Compatible with:



Optical and range features	KX10DTP	KX15DT	KX15DTAM
Coverage	Volumetric	Volumetric	Volumetric, Curtain, Long range
Maximum range	10m	15m	15m/18m/30m
Optimal installation height	1.8-2.4m	1.8-2.4m	1.8-2.4m
Creep-zone protection	x	✓	✓
Specification features			
Adjustable anti-masking	x	x	✓
Anti-blocking	x	x	✓
Animal immune	<24kg	x	x
Blue Wave Technology (BWT)	✓	✓	✓
Automatic sensitivity	✓	✓	✓
Digital temperature compensation	✓	✓	✓
Anti-cloaking	AND/OR	AND/OR	AND/OR
Separate indication: microwave, PIR and alarm	✓	✓	✓
3 microwave frequencies to avoid interference	✓	✓	✓
EOL resistors onboard	✓	✓	✓
Tamper protection included	✓	✓	✓
Wired			
Power supply	9-16 VDC (12 VDC nominal)		
Current consumption at rest and in alarm	23mA, 30mA		
Output relay	Solid state, 60VDC, 50mA protection		
Tamper terminal	12VDC max, 50mA max		
Electrical specifications			
RFI immunity from continuous wave (CW), modulated wave (AM) and pulse (PM) 80-2700MHz	25 V/m		
Microwave frequency	10.515, 10.525, 10.535GHz		
Alarm response	2.5 second		
Detection speed	0.3 - 3m/s		
Direct light filter	6500 Lux		
Optics	Sealed		
Geometric lens configuration	3D		
Other details			
Operating temperature	-30°C to +50°C		
Weight	125g		
Dimensions (W x H x D)	69 x 117 x 55 mm		
Certification			
EN50131	Grade 2	Grade 2	Grade 3
Environmental class	II	II	II
SAP Code: International	361300080	361300108	361300073
SAP Code: Czech, Austria, France	361301279	361300075	361300072