SICEP ®

MATRIX

Advanced detection and control.

SICEP
MADE IN ITALY

MATRIX: advanced detection and control.

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Matrix is SICEP's answer to external perimeter protections. A wide range of radio sensors (BiTech technology) with a high design and easy installation, with latest generation technologies to ensure reliability and operational efficiency. The detectors of the MATRIX series are offered in several versions with different detection technologies: PIR, MW and Videoverification. MATRIX protects, discriminates, detects and sends photographs in any environmental condition, even the most adverse, ensuring absolute protection of the entire site. The images acquired (from 1 to 10) allow, following a report of theft, a quick verification by both the user (App) and the Supervisory (MvsNET system). Designed with specific algorithms for immunity to false alarms, they are able to protect all the most sensitive outdoor areas, from homes to large commercial sites. The perfect solution for those looking for maximum safety.

- Wireless outdoor sensors
- BiTech two-way radio technology (868Mhz)
- 2 PIR sensors + 1 MW sensor (depending on the models)
- PIR with independent optics
- MW in K-band (24GHz 2-channel)
- Range from 4 to 18m 90° (depending on the models and sensitivity)
- Digital analysis of signals
- Active and dynamic anti-masking on 2 infrared
- Self-calibration with dirty lenses
- Installation height 1-1.2m / 2.1-2.4m
- 8 levels of sensitivity, settable
- Small animal discrimination
- Specific algorithm for immunity to false alarms
- Triaxial motion sensor, with position learning, against removal, damage and sabotage
- Interchangeable lenses (curtain or pet immunity model)
- Cover protection and joint included
- Anti-opening tamper
- Degree of protection IP55

MATRIX with camera
- Color camera with CMOS sensor
- VTech transmission protocol
- Fixed optic, 90° angle
- Resolution 640x480 pixels (VGA)
- White light LED illuminator (6-8m)
- No. of frames per alarm selectable (1 to 10)
- Micro-movie viewable via App and MvsNET

TECHNICAL FEATURES	BT-MX2P	BT-MX2PC	BT-MX3T	BT-MX3TC
Detection method	Double PIR sensor ("dual element" type)	Double PIR sensor ("dual element" type)	Double PIR sensor ("dual element" type) + MW K band (24 GHz) 2 channels	Double PIR sensor ("dual element" type) + MW K band (24 GHz) 2 channels
PIR coverage	4-18 m (configurable) / 90°			
MW coverage	-	-	4-12 m (configurable) / 90°	
Detection speed	0,3 ÷ 1,5 m/s			
Warm-up time	60 s			
Anti-masking	Yes, for both PIRs with active IR			
Anti-removal	Triaxial motion sensor with position learning, against removal, damage and sabotage			
Video verification	No	Yes Res. 640X480px White LED illuminator 90° optic	No	Yes Res. 640X480px White LED illuminator 90° optic
Pet immunity	• Mounting at 2.1 / 2.4 m with standard lens (PIR sensitivity reference: Profile 4): Animals up to 4 kg / 30 cm • Mounting at 1 / 1.2m with PET lens + "Reinforced immunity" activated: Animals up to 70cm without weight limit			
Radio communication	SICEP BiTech bidirectional proprietary protocol			
Radio band	868 MHz ISM			
RF Link Budget	138 dBm			
Radiated power	< 14 dBm			
Reports sent	Movement alarm, masking, tamper, anti-removal, temperature, battery voltage, radio connection check			
Walk test	Differentiated light indications for PIR and MW + alarm buzzer			
Operating temperature	-20 ÷ +50°C			
Ambient humidity	95% non-condensing			
Degree of protection	IP55			
Fixing height	1÷1,2 m or 2,1÷2,4 m			
Dimensions (W x H x D)	192x72x65 mm (accessories excluded)			
Weight	Approx. 450 g (accessories and batteries included)			
Accessories included	Protective cover, joint, Pet immunity lens, zone masking labels			
Battery autonomy	5 years	3 years	4 years	2 years

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