SICURIT
PERIMETER PROTECTION SYSTEMS

AVANTGARDE
IR | MW | DT

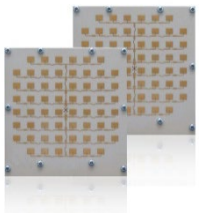
IP based volumetric Microwave Barrier

P/N: IMTMW200/1.5, IMTMW200/2.0

AVANTGARDE-MW is Sicurit latest IP and PoE based digital Microwave barrier equipped with brand new K-Band featuring Advanced Digital Signal Processing (ADSP) to reduce false alarm rates and distinguishing the type of intrusion attempt and eventual temporary obstructions specially during system arming.

K-BAND Advantages

K-band microwave technology works on 24GHz frequency; this enables the device to deliver more accurate detection and uniform coverage of the detection area, minimizing false alarms from external movements (dimension of detection area limited and reduced compared to X-band, by proper setting of parameters).



Additionally, the higher K-Band frequency enables AVANTGARDE-MW to reduce the power signal reaching the same distance.

Brand new features

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Reduced mounting accessories and cabling infrastructure

AVANTGARDE-MW's electronic circuits and RF modules has been designed to fit AVANTGARDE IP65 long lasting proven towers, decreasing overall installation costs of Microwave barriers that often require expensive poles, jaws and junction boxes used to lodge power supply and converters.
AVANTGARDE towers were in fact designed to provide space for any MW-related accessory including back-up batteries.
Additionally Field wiring is minimized as AVANTGARDE-MW communicates between TX and RX via a coded modulation of the RF signal, with the RX unit communicating alarm and status information via built-in Ethernet interface and alarm/tamper status through on-board relay outputs.

KEY BENEFITS

- Narrow K-Band
- PoE
- End-to-End IP based Sensor
- Complete remote control and diagnostic
- Integrated with major VMS
- Certified Grade 4

SICURIT Perimeter Protection Systems – a dedicated division of SICURIT Alarmitalia S.p.A.
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Specifications

General	
Maximum operating range	200m
Number of MW beams	1 (IMTMW200/1.5), 2 (IMTMW200/2.0)
Towers height (**H**)	1.25m (IMTMW200/1.5), 2.0m (IMTMW200/2.0)
Type of detection	Volumetric | Microwave Technology
MW type and frequency	Planar, K-Band
Frequency channels	16 Chrystal-Quartz
Probability of detection (POD)	Greater than 98%
False alarm rates	Typically 1/unit/year
Communication	
Communication interfaces	Dry contacts, Ethernet (RJ45)
Alarm outputs	N.C. Relay Output on RX,
Tamper outputs	N.C. Relay Output on TX and RX or both from RX
Auxiliary outputs	1x programmable O.C. on TX and RX
Auxiliary inputs	1x double balanced on TX and RX
Alarm data transmission	TCP/IP to HyperPower SMS and A-Bridge
Ethernet (TX/RX)	TCP 10/100 Base T
Third party integration options	API, Modbus TCP
Electrical	
Power supply	12VDC ±15%; PoE
Power consumption	TX 130mA; RX130mA (1.5), TX 260mA; RX 260mA (2.0)
Power supply options	110/230V (with BEA1224ALI/USA)
Environmental	
Operating temperatures	-25°C / +70°C; -40°C / +70°C with additional PTC Heater
IP rating (towers)	IP65
Configuration tool	Web-browser and Software (Windows® based)
Dimensions	Tower: 15.5x16.6x**H**cm | Base: 28x28cm
Regulatory compliance	CE, Product classified Security Grade 4 - Environmental Class IV (according to EN 50131-1:2006, EN 50131-1-2-4:2008)
Warranty	Comprehensive 3 years

List of accessories

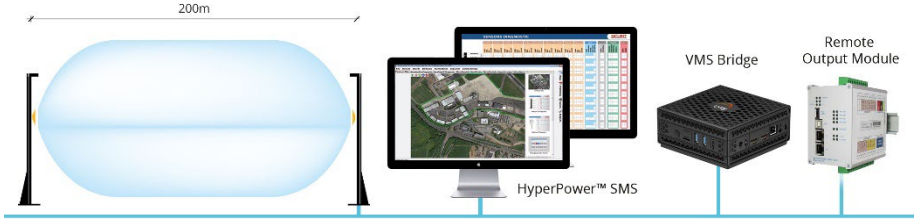
BEC205	Anti-climbing top cover
BEA1224ALI	230V Power supply
BET045	Single tower bracket (wall application)
IMERES	Additional PTC Heater

Integration options

CMHPAVSW	Hyperpower SMS
IMTAB16/32/64/128	A-Bridge VMS gateway
IMTIPLOG	Ethernet output module ONVIF ready

Complete list of accessories available in SICURIT official pricelist

Graphic representation



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