

## AVANTGARDE

IR | MW | DT

### IP Microwave Barrier IMTMW-XD / IMTMW-XT series



Matte-black version

AVANTGARDE-MW is Sicurit's last generation of IP/PoE digital volumetric long range Microwave barriers. Equipped with X-Band (10.525GHz) parabolic Antenna, it makes use of Advanced Digital Signal Processing (ADSP) to reduce false alarm rates and distinguishing the type of intrusion attempt and eventual temporary obstructions specially during system rearming.

AVANTGARDE- MW is available in both IP65 discrete housing for pole-mounting applications (IMTMW-XD) or assembled in industrial-rated extruded aluminum columns (IMTMW-XT) for direct ground-mounting applications, designed to keep all wirings completely hidden and protected allowing additional space to host e.g. FO/Media converters, optional power-supplies and batteries.



Tower version

Overall field wirings are 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.

### Brand new features

#### 16 Crystal-Quartz Channels "random shuffle"

Thanks to the 16 Crystal-Quartz channels AVANTGARDE-MW enables more units to operate in close proximity to each other, including applications where 2 or even 3 units are stacked together within one tower (for special applications).

Another innovation is the introduction of a random modulation channel shuffle-based algorithm that increases Microwave safety making AVANTGARDE-MW completely immune against attempts to tamper it.

#### SEA and Temporary Obstruction Notification

The Signal Efficiency Analysis (SEA) continuously monitor the communication stability and efficiency of AVANTGARDE-MW radio link and notifies any temporary obstruction that may cause gaps within the detection pattern, especially if caused by cars or trucks that might be used to bypass the system.

AVANTGARDE MW provides an alert when the RF pattern is distorted for a certain period of time due to constant presence of bulky objects.

### KEY BENEFITS

- IP PoE
- All TX signals available from RX unit
- Wi-Fi KIT for barrier configuration
- Complete remote control and diagnostic
- Integrated with major VMS
- Certified Grade 4

## Specifications

### General

Operating ranges	50/120/200m
Type of detection	Volumetric   Microwave Technology
MW type and frequency	Parabolic, X-Band (10.525GHz)
Frequency channels	16 Crystal-Quartz random shuffle
Probability of detection (POD)	Greater than 98%
False alarm rates	Typically 1/unit/year

### Communication

Communication interfaces	Dry contacts, Ethernet (RJ45)
Communication protocols	TCP-IP/ModBusTCP (API available on request)
Ethernet (TX/RX )	TCP 10/100 Base T
Alarm data transmission	TCP/IP to HyperPower SMS and A-Bridge; ModBusTCP to IMTILOG
Alarm outputs	N.C. Relay Output in RX
Tamper outputs	N.C. Relay Output in TX and RX or both from RX
Auxiliary I/O	3IN/4OUT (programmable O.C.) in both TX and RX

### Electrical

Power supply	PoE or 12VDC ±15%; (110V/230V built-in Power Supply available)
Power consumption	TX 130mA; RX160mA

### Environmental

Operating temperatures	-35°C / +70°C
IP rating (housing)	IP65 (IMTMW-XD); IP55 (IMTMW-XT)

**Configuration tool** Web-browser and Software (Windows® based)

**Dimensions** Housing: 28x39x14cm; Tower: 27x16x125cm (Ground base 28x28cm)

**Regulatory compliance** CE, Product classified Security Grade 4 - Environmental Class IV

**Warranty** Comprehensive 3 years

## Graphic representation



## How to order (P/N)

### Models

IMTMW050P	Set of MW   R: 50m   PoE
IMTMW050	Set of MW   R: 50m   12V
IMTMW120P	Set of MW   R: 120m   PoE
IMTMW120	Set of MW   R: 120m   12V
IMTMW200P	Set of MW   R: 200m   PoE
IMTMW200	Set of MW   R: 200m   12V

### List of Accessories

MESDAVE07N4	Complete set of Telescopic poles and bases (AISI304)
MESDAVE08	Bracket with jaw for Ø 50-110mm poles (AISI304)
BET040IME	Ground base for IMTMW-XT versions
MESDAVEALI	220V-12V Power supply

### Integration options

CMHPAVSW	HyperPower Alarm and Event management SW
IMTAB16/32/64/128	A-Bridge VMS Gateway
IMTILOG	Ethernet remote output module (ONVIF ready)

Complete list of MW barrier and accessories, including Tower versions, available in SICURIT-PPS official pricelist