

MANTA

DIGITAL MICROWAVE BARRIER 50M AND 80M



FUZZY LOGIC
INSIDE

IP-READY PoE

COMPLIANT WITH
EN50131 GRADE 4



Manta is a **digital microwave barrier for outdoor use**, designed for ranges of 50 and 80 meters, tailored to meet the following needs:

✓ Security

Manta ensures a very high detection capability, comparable to detectors used in high-risk sites, while also being suitable for residential applications.

✓ Reliability

The likelihood of generating false alarms is significantly lower than average, thanks to DSP (Digital Signal Processing) using special Fuzzy Logic rules, while maintaining the highest level of detection probability.

✓ Adaptability

With its planar microwave antennas that produce a high and narrow beam, compact

size, functional and appealing design, Manta is ideal for protecting residential areas where space is limited and aesthetics are important. Its adjustable joint, allowing for internal cable routing, ensures maximum ease of installation and wiring.

✓ Tamper Resistance

Equipped with 16 modulation channels, masking control, and a built-in functional test, Manta can detect any tampering attempts.

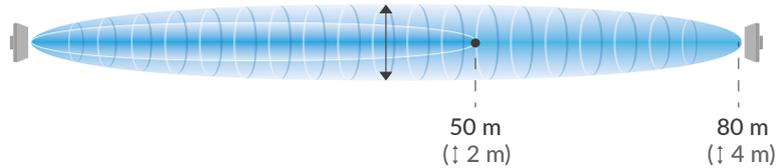
✓ Simplicity

The integrated optical and acoustic system simplifies alignment, Walk-Test, and installation qualification without the need for external tools.

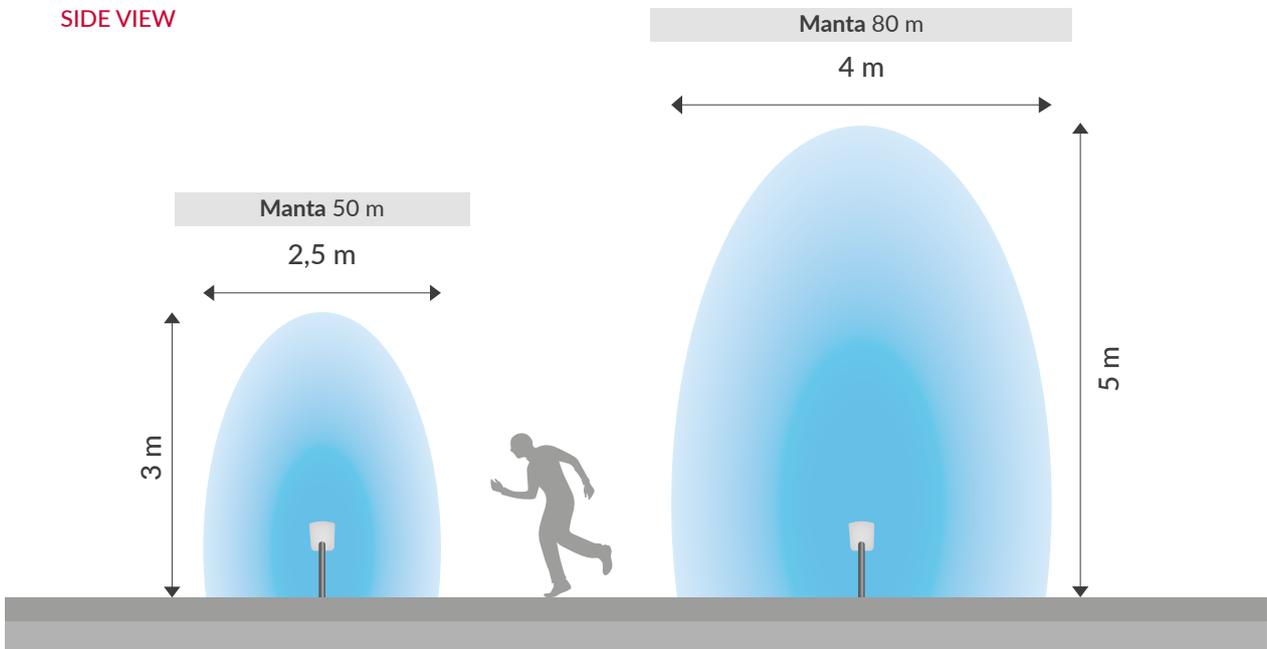


ADJUSTABLE JOINT FOR INTERNAL CABLE ROUTING

TOP VIEW



SIDE VIEW



TECHNICAL SPECIFICATIONS

FREQUENCY	9.2 to 10.6 GHz, compliant with EU, USA, and Canada standards
RANGE	50 - 80 m
CHANNELS	16
POWER SUPPLY	13.8 Vdc, PoE
ALARM OUTPUTS	3 relays for alarm, tamper, and fault
SPECIAL OUTPUTS	Alarms via RS 485 RX+TX protocol
OPERATING TEMPERATURE	-35°C to +65°C
ALIGNMENT	Built-in audio/video tool
ALIGNMENT VERIFICATION	Mathematical evaluation of achieved alignment quality
SECURITY GRADE	EN50131-1 Grade 4

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