

# TOWER<sup>®</sup>-20AM

## Outdoor Mirror Detector with Anti-masking



Providing reliable and false alarm-free motion detection outdoors is extremely difficult. Yet, preventing false alarms is absolutely vital because of the intense distress and disruption they would cause a family at home.

TOWER-20AM features several innovative technologies to overcome these ultra-demanding challenges. The revolutionary Octa-Quad™ technology, which uses eight PIR sensors, each acting as a Quad detector, enables it to accurately and reliably determine whether an alarm is justified. A robust housing and patented anti-masking protection both provide exceptionally high resistance to vandalism and masking.

The TOWER-20AM wireless\* outdoor detector works together with Visonic's PowerMax® advanced home security system to provide a complete solution for full protection of the house, inside and out.

- Superior outdoor detection, with virtually no false alarms
- Innovative Octa-Quad™ technology can distinguish between a moving person, swaying trees and bushes, and a small animal, minimizing false alarms while ensuring effective detection of real threats
- Vandal-resistant design – enabled by patented V-Slot® technology
- Unprecedented, complete anti-masking protection
- Market-leading black mirror optics – provide exceptionally high immunity to false alarms from sunlight and car headlights
- Wireless model; ideal for difficult installations



**Visonic**<sup>®</sup>

*For a secure way of life*

## Patented Technologies:

### Octa-Quad™ technology

#### Accurate, false alarm-free detection

- A unique, patented technology based on an array of eight independent PIR detectors that each monitor 1/8 of the field of view utilizing a Quad configuration and employing Visonic's patented, market proven TMR™ (True Motion Recognition) algorithm.
- A central motion processor analyzes the motion signals detected in each of the individual detectors, taking into account the time, amplitude, background temperature, speed of motion, size of target, and the direction of motion. Then, it compares the signals in relation to adjacent detectors and calculates whether a real alarm is justified based on true motion detected consecutively by the array of individual detectors.

#### Unique, robust, anti-vandal design

- V-Slot® window technology, combined with mirror optics, enables a relatively small and recessed window, and hence high resistance to environmental interference and vandalism.

#### Market-leading optics

- **Combination of elliptical-parabolic mirror optics**  
Innovative technology creates an exceptionally efficient mirror with extremely high optical gain, delivering longer range and providing excellent detection sensitivity and false alarm immunity.
- **Obsidian Black Mirror™ technology**  
Unique, nickel-based obsidian-like reflective surface acts as a selective optical filter to infrared energy; virtually eliminates white light interference.

#### Comprehensive, virtually undefeatable anti-masking protection

- **Complete IR perimeter shield**  
Dome-like IR shield protects the slot from every angle direction, including creep zone.
- **Anti-spray perimeter grooves**  
Produce a diffractive IR beam pattern, providing a virtually unbeatable defense against even spray or lacquer.

#### Other features

- True "creep zone" down-looking optics
- Isolated battery compartment for easy battery replacement

#### Compatibility

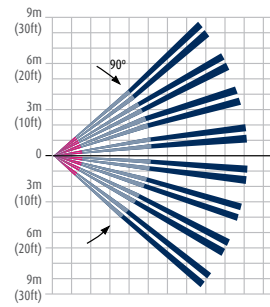
- Fully compatible with the following PowerMax® versions (enrolled as detector type "PIR+AM"):<sup>\*</sup>
  - PowerMaxPro: Versions 5.0.14 & 5.2.10 (GPRS) and up
  - PowerMaxComplete: Versions 1.5.01 & 2.0.02 (GPRS) and up
  - PowerMaxExpress: 1.0.05 and up

<sup>\*</sup> All PowerMax versions can enroll TOWER-20AM as a regular PIR without AM functionality.

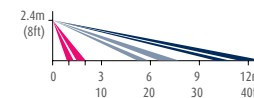
## Pattern:

### TOWER-20AM wide angle

#### Top view



#### Side view



## Specifications:

	TOWER-20AM	TOWER-20AM MCW
Type:	Outdoor mirror with anti-masking	Wireless outdoor mirror with anti-masking
Certifications:	EN 60950, EN 50130-4, EN 50130-5, IP 55	EN 60950, EN 50130-4, EN 50130-5, EN 300 220, EN 301 489, IP 55
Coverage:	12 x 12m / 90°	12 x 12m / 90°
Power Supply:	8 – 16 VDC	2 batteries 3V CR123A lithium
Battery life:	N/A	3 years (with typical use)
Mounting height:	1.5 to 3m (5 to 10ft)	1.5 to 3m (5 to 10ft)
White light protection:	Above 25,000lux	Above 25,000lux
Dimensions (HxLxW):	157 x 147 x 124mm (6.2 x 5.9 x 4.9")	157 x 147 x 124mm (6.2 x 5.9 x 4.9")
Operating temperature:	-35°C to 60°C (-31°F to 140°F)	-35°C to 60°C (-31°F to 140°F)
Tamper:	Cover and wall	Cover and wall
Pet immunity:	Up to 18kg (40lb)	Up to 18kg (40lb)

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