



# Visonic

From Tyco Security Products

## TOWER-20AM PG2

PowerG, Wireless, Outdoor  
PIR Motion, Mirror Detector  
with Anti-mask

with  
**PowerG**  
Technology



### Features that Make a Difference:

- Innovative Octa-Quad technology can distinguish between a moving person, swaying trees and bushes, minimizing false alarms while ensuring detection of real threats
- PowerG, two-way, Frequency Hopping Spread Spectrum (FHSS-TDMA) technology - Provides robustness and reliability closer than ever to wired systems
- 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
- Configured from the panel – No hardware switches and no need to re-open the detector once closed

### Superior Outdoor Detection with Virtually No False Alarms

TOWER-20AM PG2, an innovative wireless outdoor PIR mirror detector, comprehensively addresses property owners' security needs for accurate intruder detection with minimum false alarms.

TOWER-20AM PG2 features several innovative technologies to overcome demanding outdoor challenges such as rain, direct sunlight, animals, changes of light levels and more. Visonic's revolutionary Octa-Quad technology, which uses eight PIR sensors, each acting as a Quad

detector, enables the TOWER-20AM PG2 to accurately and reliably determine whether an alarm is justified. A robust housing and patented anti-masking protection together provide exceptionally high resistance to vandalism and masking.

The TOWER-20AM PG2 outdoor detector works together with Visonic's PowerMaster advanced home security system to provide a complete solution for full protection of the house, inside and out.

## Advanced Detection Technologies

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

## Robust and Reliable

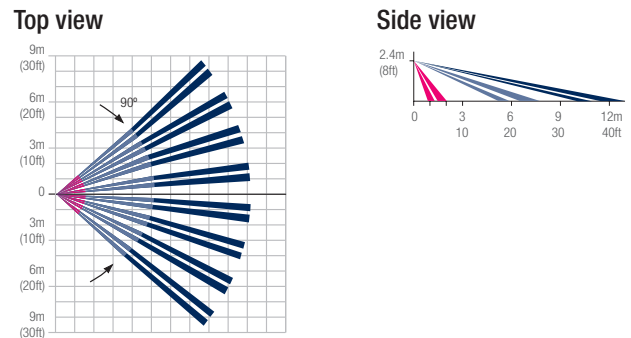
- **Unique, anti-vandal design** – V-Slot window technology, combined with mirror optics, enables a relatively small and recessed window, and hence high resistance to environmental interference and vandalism.
- **Unprecedented, anti-masking protection** – Based on Visonic's active IR transmitter and receiver anti-masking technology, TOWER-20AM PG2 sends IR signals which are reflected back from the surrounding area into the receiver. Any attempt to mask these signals using blocking devices or a spray will sound an alert.
- **Anti-spray perimeter grooves** – Produce a diffractive IR beam pattern, providing a virtually unbeatable defense, even against spray or lacquer.
- **Frequency hopping** – Able to hop between frequency bands, the TOWER-20AM PG2 is resistant to almost any radio frequency interference. It also enables long distance communication with the panel even in harsh security environments.

## Installer-friendly

- **Built-in, RF link status LED** – The RF link quality is clearly displayed with a built-in LED. Select the optimal installation location without having to physically approach the control panel.
- **Remote maintenance** – The TOWER-20AM PG2 can be configured and tested from the panel or from a central monitoring station, enabling diagnostics and other parameters.
- **Prolonged battery life** – Based on PowerG technology, the TOWER-20AM PG2 can operate on a single battery for up to three (3) years.

## Pattern

TOWER-20AM PG2 wide angle



## Specifications

Certifications	EN 60950, EN 50130-4, EN 50130-5, EN 300 220, EN 301 489, IP 55
Coverage	12 x 12m / 90°
Power Supply	2 batteries 3V CR123A lithium
Battery life	3 years (with typical use)
Mounting height	1.5 to 3m (5 to 10ft)
White light protection	Above 25,000lux
Dimensions (HxLxW)	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)
Tamper	Cover and wall
Pet immunity	Up to 18kg (40lb)

[www.visonic.com](http://www.visonic.com)

Contact Visonic for further information:

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