

# TOWER<sup>®</sup> Family of Detectors

*Robust sensors for tough installations -*

*The new era of motion detection*



**Visonic<sup>®</sup>**

*For a secure way of life*

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

# Taking detection where

In today's large and harsh security environments, providing reliable motion detection can be very challenging. Increasingly sophisticated threats, complex physical conditions indoors and out, and extremely low tolerance for false alarms together demand exceptionally heavy-duty detectors.

Visonic's TOWER™ family of intrusion detectors are the most advanced wired and wireless detectors available today, featuring:

- Breakthrough technologies that provide:
  - Unprecedented detection sensitivity
  - Unparalleled anti-vandalism and anti-masking capabilities
  - Maximum immunity to false alarms
- Robust, highly sensitive and accurate detection for almost any industrial, commercial or residential environment, indoors and outdoors
- Assured, long-lasting reliability
- Easy and intuitive installation

## **TOWER-20AM Outdoor Motion Detector, IP55 rated with Anti-masking**

### **New level of accuracy in outdoor motion detection**

Say goodbye to false alarms from outdoor installations. The TOWER-20AM outdoor detector, available in both wired and wireless models, uses Visonic's patented Octa-Quad™ and black mirror technologies to provide exceptionally reliable outdoor motion detection with virtually no false alarms.

- Eight Quad detectors housed in a compact, yet robust, housing and arrayed in a "Star Ambush" formation. Each monitors one-eighth of the field of view through a recessed V-Slot® window, ready to identify any real or false alarm.
- A central motion processor makes the final decision regarding a true or false alarm based on intelligent algorithms and information received from all eight Quad detectors.
- Based on Visonic's patented True Motion Recognition (TMR™) algorithm and Adaptive active IR outdoor anti-masking technology.

The TOWER-20AM operates reliably in harsh weather conditions – including storms with rain, hail, snow, lighting, dust, strong winds, and also under bright sun and car headlights – and can distinguish between moving people, swaying trees and bushes and small animals, thereby minimizing false alarms while ensuring effective detection of real threats.



**TOWER-20AM**  
Wired

**TOWER-20AM MCW**  
Wireless

# it's never gone before

## Patented technologies deliver outstanding performance

**V-Slot® Technology** – Visonic's innovative V-Slot® is a remarkably small, recessed concave window that provides very high resistance to environmental interference and vandalism, while also raising sensitivity.

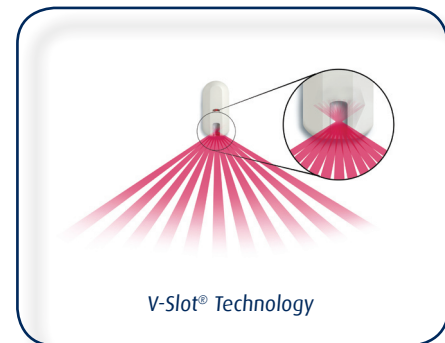
### Market-leading optics

- **Combination elliptical-parabolic mirror optics** – Creates an exceptionally efficient mirror that provides outstanding catch performance and detection sensitivity, with longer range and high optical gain.
- **Obsidian Black Mirror™ technology** – Superior black mirror optics utilize a unique, nickel-based obsidian-like reflective surface that acts as a selective optical filter to infrared energy. This virtually eliminates white light interference coming from direct sunlight or car headlights, while also increasing detection sensitivity.

**Unprecedented anti-masking protection\*** – Superior Active IR anti-masking provides virtually undefeatable protection against blocking of the detector's field of view. The complete IR perimeter shield protects the window from every angle, including the creep zone; and small perimeter grooves etched into the slot create a diffractive IR beam pattern that protects against spray or lacquer.

\* Anti-masking protection is available in the TOWER AM models only.

For more information about TOWER patented technologies, please enter the white paper and multimedia available at [www.visonic.com](http://www.visonic.com)



**TOWER-40MCW**  
Wireless Grade 2  
Mirror PIR Detector

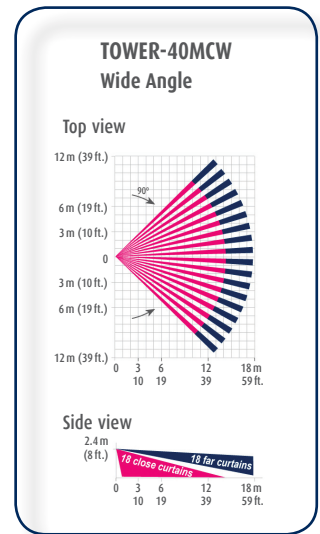
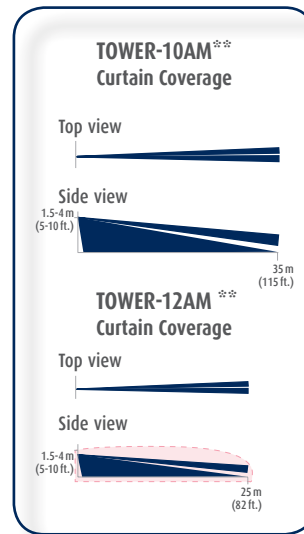
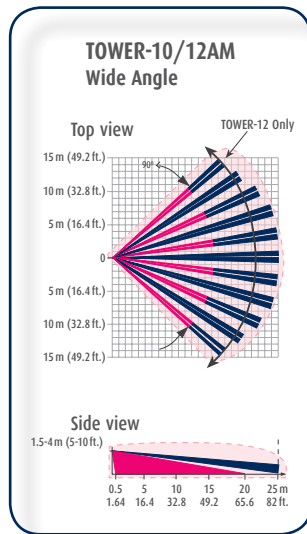
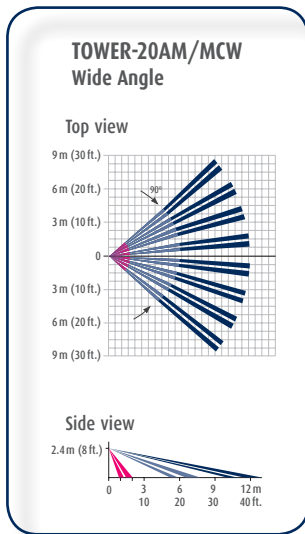


**TOWER-10/12AM**  
Industrial Grade 3  
Vandal-resistant Detectors



	Wireless		Wired		
	Outdoor	Indoor	Outdoor	Indoor	
	TOWER-20AM MCW	TOWER-40 MCW	TOWER-20AM	TOWER-10AM	TOWER-12AM
Type	Wireless outdoor Octa-Quad mirror detector with anti-masking	Wireless mirror PIR detector	Outdoor Octa-Quad mirror detector with anti-masking	Industrial PIR mirror detector with anti-masking	Industrial dual-technology mirror detector with anti-masking
Certification	EN 60950, EN 50130-4, EN 50130-5, EN 300 220, EN 301 489-3 CFR 47 Part 15, IP 55	EN 50131-2-2 Grade 2 EN 50131-1, EN 60950, EN 50130-4, EN 300 220, EN 301 489-3 RSS-210, CFR 47 Part 15	EN 60950, EN 50130-4, EN 50130-5, EN 301 489-3 CFR 47 Part 15 IP 55	EN 50131-2-2 Grade 3 EN 60950, EN 50130-4, EN 50130-5, EN 50131-1, CFR 47 Part 15	EN 50131-2-4 Grade 3 EN 60950, EN 50130-4, EN 50130-5, EN 50131-1, EN 301 489-3 CFR 47 Part 15
Wide Range Coverage	12 x 12m (40 x 40ft) / 90°	18 x 24m (60 x 82ft) / 90°	12 x 12m (40 x 40ft) / 90°	25 x 30m (82 x 100ft) / 90°	25 x 30m (82 x 100ft) / 90°
Anti-masking	Active IR anti-masking	N/A	Active IR anti-masking	Active IR anti-masking	Active IR anti-masking
Curtain Coverage**	N/A	N/A	N/A	35m (115ft) / 5°	25m (82ft) / 5°
Power Supply	2 X 3V CR123A Lithium	3V CR-123A Lithium	8 – 16 VDC	8 – 16 VDC	8 – 16 VDC
Battery life	3 years (with typical use)	3 years (with typical use)	N/A	N/A	N/A
Mounting height	1.5 to 3m (5 to 10ft)	1.8 to 2.4m (6 to 8ft)	1.5 to 3m (5 to 10ft)	1.5 to 4m (5 to 13ft)	1.5 to 4m (5 to 13ft)
White light protection	Above 25,500lux	Above 6,500lux	Above 25,500lux	Above 6,500lux	Above 6,500lux
Dimensions (H x L x W)	157 x 147 x 124mm (6.2 x 5.9 x 4.9")	122 x 63 x 42mm (4.8 x 2.5 x 1.7")	157 x 147 x 124mm (6.2 x 5.9 x 4.9")	160 x 77 x 47mm (6.3 x 3 x 1.8")	160 x 77 x 47mm (6.3 x 3 x 1.8")
Operating temperature	-35°C to 60°C (-31°F to 140°F)	-10°C to 50°C (-14°F to 122°F)	-35°C to 60°C (-31°F to 140°F)	-20°C to 55°C (-4°F to 131°F)	-20°C to 55°C (-4°F to 131°F)
Tamper	Cover and wall	Cover and wall	Cover and wall	Cover and wall	Cover and wall
Pet-immunity	Up to 18kg (40lb)	N/A	Up to 18kg (40lb)	Up to 18kg (40lb) special mask included	Up to 18kg (40lb) special mask included

\*\* Optional curtain mirror, part number 0-100783



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**Visonic®**  
For a secure way of life

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