



Palladium Security Systems  
Phalanx M25  
Wireless Security Solution

[www.palladiumsecurity.ca](http://www.palladiumsecurity.ca)  
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## M25 System Overview

### Palladium Phalanx M25

#### Compact. Connected. Canadian.

Smart security starts here. The Palladium Phalanx M25 is a powerful, ultra-compact hybrid security hub designed for today's connected homes and businesses. Whether you're upgrading an existing system or starting fresh, the M25 delivers unmatched performance, flexibility, and peace of mind.

#### Fast, Secure, and Always On

**Hybrid Powerhouse:** Combines wired reliability with advanced wireless technology using GFSK (Gaussian Frequency Shift Keying) in both 868 MHz and 914 MHz bands.

**Encrypted & Resilient:** Built-in frequency and encryption hopping protects your system from interference and unauthorized access.

**Direct-to-Receiver Reporting:** Unlike cloud-only systems, the M25 connects directly to up to four IPC10 IP receivers—no third-party servers, no delays, no compromises.

#### Designed for Real Life

**Discreet & Powerful:** Small enough to hide, strong enough to secure medium-sized homes, large apartments, and small businesses.

**Flexible Placement:** Sleek, low-profile design fits virtually anywhere—on a shelf, in a closet, or tucked behind a panel.

#### Smarter Control, Seamless Expansion

**Programmable Outputs:** Trigger actions manually, on a schedule, by temperature, or in response to system events.

**Expandable Ecosystem:** Works with Palladium's wireless, Ethernet, and hardwired devices—plus upcoming integrations for video verification, access control, and home automation

#### Easy Setup, Total Control

**Plug-and-Protect Simplicity:** One RJ45 cable handles both power (PoE) and Ethernet—no extra wiring, no hassle.

**Built-in Wi-Fi:** Flexible connectivity options for any environment.

**Secure Cloud Access:** Backed by Palladium's fourth-generation cloud services and BlueEye mobile app, with two-way authentication for verified user access.

#### Why Choose the Phalanx M25?

No reliance on cloud servers for core security functions

Canadian-designed for reliability and performance

Fast, encrypted communication with direct supervision

Future-ready with automation and video integration on the horizon



#### Beauty and a Beast



# M25 / M25 LTE

## Highlights

### ► **Extremely Versatile:**

Supports wireless, wired, and Ethernet expansions. All system devices, including wireless devices, are remotely upgradable. The system is fully scalable, allowing future upgrades to integrate video monitoring and access control. Supports easy backup and system restoration through the application, simplifying panel replacements.

### ► **Easy Installation:**

With one-wire Ethernet with PoE, fast auto-learn for wireless and Ethernet devices, and a user-friendly interface, the M25 is time-saving, easy, and simple to install and service.

### ► **Latest Wireless Technology:**

Using Gaussian Frequency Shift Keying (GFSK) technology with encryption and frequency hopping, the system ensures robust, secured communication and fast transmission, along with transmission power management for extended battery life.

### ► **Powerful Expandability:**

The M25 is designed to adapt and grow with your needs. Its seamless expansion, powered by PoE Ethernet, ensures hassle-free scalability. While fully wireless, the M25 also supports both wired and wireless expansions (for example, using ZX10M and PGM8M modules) and extended range with Ethernet repeaters. The complete system will include video verification, access control, home automation, and more.

### ► **Enhanced Personal Security:**

With user roles such as Owner, Master, System User, Maintenance, and Guest, the Owner and Master retain complete control of the system. Other user roles can access the application for remote connections or access the system locally

via remotes/keypads. Supporting up to 128 users with assignable JPEG images makes identification easier and important with the M Series access control modules. The M25's 10 partitions and 75 wireless nodes make this compact system a piece of marvel and beauty. Installer access is monitored and requires pre-approval from the Owner or the Service Company. Each service entry by the installer is indicated to the Owner and Master via push notification.

### ► **Powerful Auto Arm/Disarm/PGM Process:**

The system provides an auto-arm feature on a no movement (all zones closed) timer within a schedule, and supports auto disarm, Sleep to Stay, and Stay to Disarm. For instance, it can be easily scheduled to set Stay arming at 19:00, Sleep arming at midnight, Sleep to Stay arming at 5:00 a.m., and Full Disarm at 07:00 a.m. all week or on selected days. Within each arming schedule, you can customize the status of PGMs to set shutters or lights to suit your preferences.

### ► **Enhanced Temperature Monitoring and Control:**

The M25 includes temperature monitoring with every wireless device, protecting valuables and sites from freezing or overheating by controlling PGMs, reporting to CMS, sending push notifications, and providing clear indications on the app's message center. For instance, in colder regions, a cold warning can be set at 80C, alerting users that heating is not functioning—protecting wine cellars from freezing or overheating, or enabling temperature monitoring in greenhouses to prevent frost or overheating damage. Heating and cooling PGMs can be easily configured.

### ► **User-Friendly Mobile App Control:**

Monitor and manage your security system from anywhere with the intuitive BlueEye mobile application. Always stay informed with instant notifications for any security breach or unusual activity.



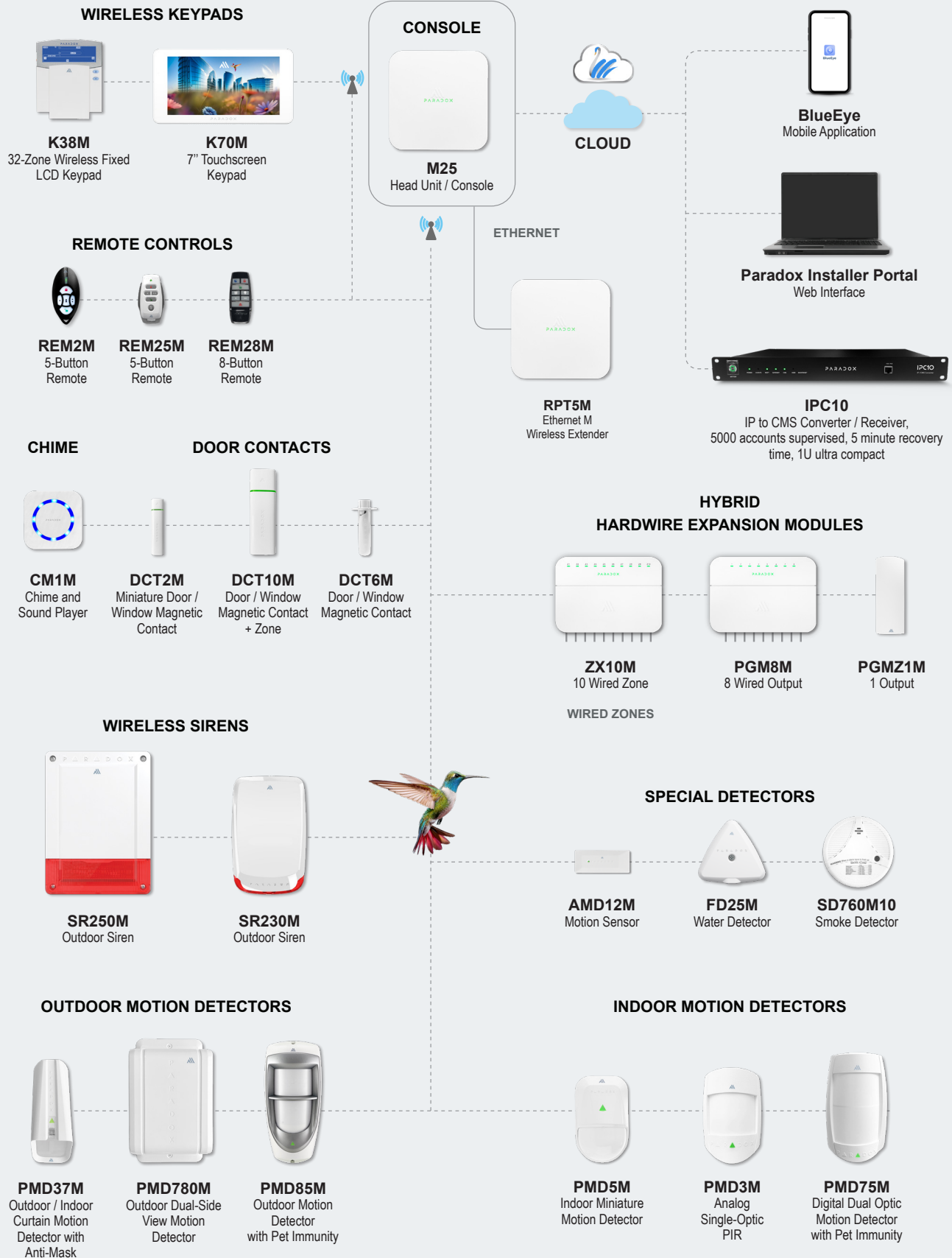
## Features

- ▶ Hybrid wireless console
- ▶ Security, Video Verification, Access Control, programmable outputs
- ▶ 3 communication channels - Ethernet, Wi-Fi, LTE
- ▶ PoE, 10W power consumption
- ▶ 10 partitions, 128 users, 100 zones, 128 remotes
- ▶ GFSK wireless, 914 MHz or 868 MHz, 75 nodes per system
- ▶ Auto-learn wireless and Ethernet devices
- ▶ Temperature monitoring and control
- ▶ Safe direct reporting to CMS up to 4 channels without cloud dependency
- ▶ User-friendly, simple, mobile application
- ▶ Certifications: CE, EN 50131-3, EN 50131-6, EN 50136-1, EN 50136-2, EN 50131-5-3, FCC 15.247 Grade 2, Class II

## Technical Specifications

Power Supply	PoE, 10W max
Battery	3.7V Lithium-ion battery, 5000 mAh.
Battery Backup Time	26H on Ethernet, 24H on Wi-Fi, 20H on LTE
Ethernet/ Wi-Fi	Built-in Wi-Fi – 2.4 GHz B/G/N
LTE	Built-in (LTE Model), main channel, or backup.
Users	128; one owner, masters, users, guests, and maintenance.
BlueEye Users Access	Optional, enabled by owner or master per user
JPEGs for User and Partition	Yes, from the gallery or camera
Partitions	10
Bell Output	Only wireless
Total Zones	100
Remotes	128 maximum per system, up to four per user
Wireless Devices	75 per system
Adding Devices	Via auto-learn feature (wireless and Ethernet), QR scan, or manual serial number input for pre-programming
Wireless Repeaters	Maximum of 4 per system. Ethernet or wireless
Programmable Outputs	Up to 48 with wireless expanders; security levels include regular, restricted, or installer-only
PGM Activation	Controlled by manual activation, schedule, system events, sunset/sunrise, or temperature reading

PGM Status Verification	PGM status with zone verification and timer-based error display per PGM.
Ethernet Expansion Devices	Up to 45 total: repeaters, keypads, cameras, and access modules
Video Verification	Up to 16 cameras (available starting May 2025)
Access Control	Up to 16 doors (available starting July 2025)
Arming Options	Stay, Sleep, and Full Arm
Auto Arm	On schedule or no movement
Auto Disarm	On schedule, Sleep to Stay, Stay to Disarm
Security Events	1000
Disarmed Events	1000 (available starting May 2025)
Automation Events	1000 (available starting May 2025)
Access Events	7500 (available starting May 2025)
Wireless Frequency Range	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz; certain countries may have limited or different frequencies.
Modulation Type	GFSK with frequency and encryption hopping.
Wireless Transmission power	868 MHz band (+14 dBm), 914 MHz band (+22 dBm), coin battery devices limited to +14 dBm.
Installation	By registered installer with Paradox Company ID (PCI) from BlueEye or Service Company Portal.
Service Company Access	Permanent access or as granted by System Owner.
Service Company Lock	Available. Enables automatically when the Service Company subscribes to the Swan service.
Service Company Portal	Available for all registered Service Companies/Installers with Paradox Company ID (PCI).
Temperature Display and Control	Site and areas temperature display, temperature activation for PGM (cool or heat), custom alerts via push notification and BlueEye message center display.
Cloud Services	Paradox Swan 4G (subscription required)
Reporting	Up to four receivers, two channels with backup. Up to three transmission channels: Ethernet, Wi-Fi, and LTE.
Programming	Via BlueEye application or PC software
Operating Temperature	-25°C to +55°C (-13°F to 131°F) Battery charge disabled below -5°C and above +55°C internal temperature
Certifications	Battery charge disabled below -5°C and above +55°C internal temperature
Dimensions	12.4W x 12.4H x 3.55D cm (4.89W x 4.89H x 1.4D in.)
Weight	0.26 Kg



# WIRELESS EXTENDER



**RPT5M**  
Ethernet M  
Wireless Extender

## Features

- ▶ Range extender/repeater
- ▶ 868 MHz - Up to 1.5 km Line of Sight
- ▶ 914 MHz - Up to 2.5 km Line of Sight
- ▶ PoE powered Ethernet based
- ▶ Certifications: CE, FCC 15.247

## Technical Specifications

Power Supply	PoE, 10W max
Wireless Type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Might vary in different countries.
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Battery	3.7V Lithium-ion battery, 5000 mAh. Battery Charging Temperature Range: 0°C to +40°C (32°F to 104°F)
Transmission Time	Less than 20 ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Firmware Upgrade	Remotely over the air, via BlueEye
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature	-25°C to +55°C (-13°F to 131°F)
Colors	White
Dimensions	12.4W x 12.4H x 3.55D (4.89W x 4.89H x 1.4D in.)
Weight	0.26 Kg



# EXPANDERS



## ZX10M

10-Zone Expander

### Features

- ▶ Wireless 10 zone inputs expander
- ▶ Input 1 can be configured as a fire zone
- ▶ 12V power, rechargeable 2 lithium 5000 mAh backup batteries
- ▶ 10 hours battery backup @ 220 mA Auxiliary output
- ▶ Temperature sensor
- ▶ Support input with no EOL resistor, a single EOL resistor, or dual EOL resistors
- ▶ Certifications: CE, EN 50131-3, EN 50131-5-3, FCC 15.247



## PGM8M

8-Output Expander

### Features

- ▶ Wireless 8-programmable outputs expander
- ▶ 24V/1A max switched each output
- ▶ Manual control for each output
- ▶ Temperature sensor
- ▶ 12V power, rechargeable lithium 5000 mAh battery up to 10 days
- ▶ Certifications: CE, FCC 15.247





## Technical Specifications

	<b>ZX10M</b>	<b>PGM8M</b>
Power Input	12-14.0VDC/1A	12-13.8VDC/1A
Wireless type	GFSK two-way with frequency and encryption hopping	
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Might vary in different countries.	
Number of Inputs	10	8
Input connection type	Two wires, No EOL, 1EOL A (1K ohm), 1EOL B (1K ohm), 2EOL (2 x 1K ohm), Zone one can be set as two-wire smoke.	-
RF power	868 MHz: +14 dBm radiated, 914 MHz: +22 dBm in permitted countries.	
Status Indicators in Application	Zone open/close, tamper status, power supply, battery level, temperature, TX/RX values	Output status indications, tamper status, power supply, battery level, temperature, TX/RX values
Status Indication	Logo: online, offline, battery or power operation, upgrade in process, tamper, zone LEDs - open/close	Logo: online, offline, battery or power operation, upgrade in process, tamper, Output status indicators: activated/deactivated
Internal Battery	2 x 3.7V Li-ion battery, 5000mAh	1 x 3.7V Li-ion battery with up to 10 days of battery life, 5000mAh
Aux output supply	12.5V - 13.8V (12.5V when operating on battery, Max 500mA), Backup of 220mA for 10H.	-
Transmission Time	Less than 20ms	
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes	
Firmware Upgrade	Remotely over the air, via BlueEye, about 2 minutes after start delay, delay up to supervision time, or any action on ZX10M and PGM8M respectively.	
Auto Learn	Yes	
Installation Environment	Indoor	
Operating Temperature	-20°C to +50°C (-4°F to 122°F) Battery charging: 0°C to 40°C (32°F to 104°F)	-20°C to +50°C (-4°F to 122°F)
Colors	White	
Dimensions	18W x 13H x 4.55D cm (7.09W x 5.12W x 1.79D in.)	
Weight	0.41 Kg	0.36 Kg with battery



# KEYPADS



## K70M

7" Touchscreen Keypad

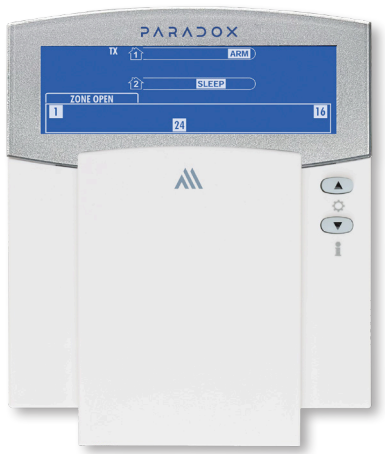
### Features

- ▶ 7" touch keypad
- ▶ Wi-Fi with B/G/N
- ▶ Security, cameras, access temperature, and output control
- ▶ Brilliant, vivid, high-quality display
- ▶ Built-in 12 hours lithium battery
- ▶ Slim, easy installation
- ▶ Temperature sensor
- ▶ 12V DC 300 mA input power
- ▶ Certifications: CE, FCC 15.247

### Technical Specifications

Power input	12Vdc, Maximum 10W
Wireless Type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Might vary in different countries.
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Battery	Lithium, 800mA hour, up to 24hr
Transmission Time	Respond within than 20 ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Installation Environment	Indoor
Firmware Upgrade	Remotely over the air, via BlueEye
Auto Learn	Yes
Installation Environment	Indoors
Operating Temperature	-10°C to +40°C (14°F to 104°F)
Colors	White
Dimensions	19.3W x 11.1H x 1.75D cm (7.6W x 4.4H x 0.7D in.)





## K38M

### 32-Zone Wireless Fixed LCD Keypad

## Features

- ▶ Wireless icon display keypad, 32 zones, 2 partitions
- ▶ 4 PGM activation keys
- ▶ Panic control
- ▶ 5 years battery life
- ▶ Night illumination
- ▶ Temperature sensor
- ▶ Certifications: CE, FCC 15.247

## Technical Specifications

Power input	6 to 14 VDC, 100 mA (minimum)
Wireless type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz
Number of Supported Zones	32
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Status Indicators in Application	Power supply, battery level, temperature, TX/RX values
Battery	2 x Lithium AA, up to 5 years of battery life.
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Installation Environment	Indoor
Firmware Upgrade	Remotely over the air, Via BlueEye, takes approximately 2 minutes to complete after the transfer begins. Battery-powered mode: a delay of up to 2 seconds before the panel starts transferring the firmware. Plugged-in mode: The firmware transfer starts immediately.
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Colors	White
Dimensions	12.3W x 14.4H x 3.2D cm (4.9W x 5.7H x 1.3D in.)
Weight	0.26 Kg



# DOOR CONTACTS



## DCT2M

Miniature Door/ Window Magnetic Contact

### Features

- ▶ Magnetic door contact
- ▶ Ultra-small size
- ▶ LED indication for opening, closing, and on-line
- ▶ Easy installation
- ▶ Temperature sensor
- ▶ 5 years of battery life
- ▶ Certifications: CE, EN 50131-2-6, EN 50131-6, EN 50131-5-3, FCC 15.247

## DCT10M

Door/Window Magnetic Contact + Zone

### Features

- ▶ Two zones - magnet and wired Input
- ▶ LED indication for opening, closing, and on-line
- ▶ Temperature sensor
- ▶ 8 years battery life
- ▶ Certifications: CE, EN 50131-2-6, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

	DCT2M	DCT10M
Wireless Type	GFSK two-way with frequency and encryption hopping	
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz	
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.	
Close Distance of the Magnet	Less than 1 cm (0.4 in.) *	
Open Distance of the Magnet	Above 3 cm (1.1 in.) *	Above 2 cm (1.1 in.) *
Transmission Time	Less than 20 ms	
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes	
Status Indicators	Battery, temperature, TX/RX values	
Battery Lithium	1 x CR123A, up to 5 years of battery life	2 AA (recommended), up to 8 years of battery life
External Contact Cable maximum resistance	-	Up to 50-ohm resistance
Firmware Upgrade	Remotely over the air, via BlueEye	
Auto Learn	Yes	
Installation Environment	Indoor	
Operating Temperature (with lithium batteries)	-20°C to +50°C (-4°F to 122°F)	
Colors	White, Grey, Brown	
Dimensions	2W x 9H x 2D cm (¾W x 3.5H x ¾D in.)	3.5W x 11.7H x 2.5D cm (1.4W x 4.6H x 1D in.)
Weight	Sensor 0.3 Kg / Magnet 10 g	Sensor 0.8 Kg / Magnet 10 g

\* Distance may vary depending on the surface material.





## DCT6M

Door / Window  
Magnetic Contact

### Features

- ▶ In-frame installation on doors and windows
- ▶ Slim, ultra small and easy to install
- ▶ Temperature sensor
- ▶ Up to 5 years of battery life
- ▶ Certifications: CE, EN 50131-2-6, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Wireless Type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Close Distance of the Magnet	Less than 8mm (0.3 in.)
Transmission Time	Less than 20 ms
Supervision Time	20 minutes
Status Indicators	Battery, temperature, TX/RX values
Battery Lithium	1 x AAA, up to 5 years of battery life
Firmware Upgrade	Remotely over the air, via BlueEye
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature (with lithium batteries)	-20°C to 50°C (-4°F to 122°F)
Colors	White, Brown
Dimensions	2.1W x 7.3H x 2.1D cm (0.8W x 2.8H x 0.8D in.)
Weight	Body 20g / Magnet 10g

\* Distance may vary depending on the surface material.



# DETECTORS



## PMD5M

Indoor Miniature Motion Detector

### Features

- ▶ Miniature indoor motion detector
- ▶ Dual-element PIR sensor
- ▶ Super creep down-looking beam
- ▶ Fast and easy installation with integrated bracket
- ▶ Sensitivity level and detection energy control
- ▶ Multiple processing modes
- ▶ Temperature sensor
- ▶ Up to 5 years of battery life
- ▶ Certifications: CE, EN 50131-2-2, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Wireless Type	GFSK two-way with frequency and encryption hopping
Sensor Type	Dual rectangular element
Coverage	110° - 12m (39 ft) x 12m (39 ft)
Detection Speed	0.2m/s to 3.5m/s (0.6 ft/s to 11.5 ft/s)
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Transmission Time	Less than 20 ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Status Indicators	Battery, temperature, TX/RX values
Battery Lithium	1 x 3 VDC CR123A (recommended), up to 5 years of battery life
Firmware Upgrade	Remotely over the air, via BlueEye
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature (with lithium batteries)	-20°C to +40°C (-4°F to 104°F)
Colors	White, Grey
Dimensions	5.61W x 9.15H x 1.75D cm (2.2W x 3.6H x 0.7D in.)
Weight	80 g





## PMD3M

Analog Single-Optic PIR

### Features

- ▶ Indoor single-optic wireless PIR motion detector
- ▶ Sensitivity level and detection energy control
- ▶ Up to 5 years of battery life
- ▶ Temperature sensor
- ▶ Certifications: CE, EN 50131-2-2, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Wireless type	GFSK two-way with frequency and encryption hopping
Sensor Type	Dual rectangular element
Coverage	110° - 12m (39 ft) x 12m (39 ft)
Detection Speed	0.2m/s to 3.5m/s (0.6 ft/s to 11.5 ft/s)
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Status Indicators	Battery, temperature, TX/RX values
Battery Lithium	2 x 1.5 VDC AA (recommended), up to 5 years of battery life
Firmware Upgrade	Remotely over the air, via BlueEye
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature (with lithium batteries)	-20°C to +40°C (-4°F to 104°F)
Colors	White
Dimensions	6.6W x 9.9H x 6.1D cm (2.6W x 3.9H x 2.4D in.)
Weight	0.13 Kg





## PMD75M

Digital Dual Optic Motion  
Detector with Pet Immunity

### Features

- ▶ Dual-optic wireless PIR sensors
- ▶ Advanced real pet-immunity
- ▶ Detection energy level control
- ▶ Up to 5 years battery life
- ▶ Temperature sensor
- ▶ Multiple processing modes
- ▶ Certifications: CE, EN 50131-2-2, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Wireless Type	GFSK two-way with frequency and encryption hopping
Sensor Type	Two dual-opposed infrared sensors
Coverage	90° - 11m (36 ft) x 11m (36 ft); Center beams: 15m (49.2 ft)
Detection Speed	0.2m/s to 3.5m/s (0.6 ft/s to 11.5 ft/s)
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Transmission Time	Less than 20 ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Status Indicators	Battery, temperature, TX/RX values
Battery Lithium	3 x 1.5 VDC AAA (recommended), up to 8 years of battery life
Firmware Upgrade	Remotely over the air, via BlueEye
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature (with lithium batteries)	-20°C to +40°C (-4°F to 104°F)
Colors	White
Dimensions	6.6W x 12.4H x 6.1D cm (2.6W x 4.9H x 2.4D in.)
Weight	0.16 Kg







## PMD37M

Outdoor / Indoor Curtain Motion  
Detector with Anti-Mask

### Features

- ▶ Indoor/Outdoor dual-optic wireless PIR detector
- ▶ Pet-immunity
- ▶ Sensitivity level control
- ▶ Anti-mask sensitivity adjustments
- ▶ Up to 5 years of battery life
- ▶ Temperature sensor
- ▶ -20°C to +40°C operating temperature
- ▶ Certifications: CE, EN 50131-2-2, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Wireless type	GFSK two-way with frequency and encryption hopping
Sensor Type	2 dual elements
Coverage	88.5° - 11m (36 ft) x 11m (36 ft); Center beams: 15m (49.2 ft)
Detection Speed	PET Immunity mode: 7.5m x 2m (25 x 7 ft)
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Status Indicators	Battery, temperature, TX/RX values
Battery Lithium	2 x 1.5 VDC AA (recommended), up to 5 years of battery life
Firmware Upgrade	Remotely over the air, via BlueEye
IP Rating	IPX4
Auto Learn	Yes
Installation Environment	Outdoor
Operating Temperature (with lithium batteries)	-20°C to +40°C (-4°F to 104°F)
Colors	White
Dimensions	6.1W x 12.3H x 4.3D cm (2.4W x 4.8H x 1.7D in.)
Weight	0.17 Kg



## PMD85M

Outdoor Motion Detector  
with Pet Immunity

### Features

- ▶ Outdoor dual-optic PIR motion detector
- ▶ Advanced pet-immunity
- ▶ Sensitivity level and detection energy level control
- ▶ Changeable lenses
- ▶ Impact-resistant and temperature-resistant casing
- ▶ Up to 5 years of battery life
- ▶ Temperature sensor
- ▶ -20°C to +40°C operating temperature
- ▶ Multiple processing modes
- ▶ Certifications: CE, EN 50131-2-2, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Wireless type	GFSK two-way with frequency and encryption hopping
Sensor Type	Dual element infrared (x2)
Coverage	90° - 11m (36 ft) x 11m (36 ft)
Detection Speed	0.2m to 3.5 m/s (0.6 ft to 11.5 ft/s)
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Status Indicators	Battery, temperature, TX/RX values
Battery Lithium	3 x AA, up to 5 years of battery life
Firmware Upgrade	Remotely over the air, via BlueEye
IP Rating	IPX4
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature (with lithium batteries)	-20°C to +40°C (-4°F to 104°F)
Colors	White
Dimensions	8.3W x 17.5H x 7.4D cm (3.29W x 6.9H x 2.9D in.)
Weight	0.27 Kg



## PMD780M

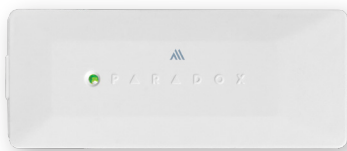
Outdoor Dual-Side View  
Motion Detector

### Features

- ▶ Outdoor dual-side detection
- ▶ Reports as single or dual units to separate zones
- ▶ Sensitivity level control
- ▶ Multiple processing modes
- ▶ Up to 5 years of battery life
- ▶ Temperature sensor
- ▶ -20°C to +40°C operating temperature
- ▶ Certifications: CE, EN 50131-2-2, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Wireless type	GFSK two-way with frequency and encryption hopping
Sensor Type	4x dual low-noise rectangular elements
Coverage	3m (9.8ft) – 12m (39.37ft) on each side
Detection Speed	0.2m / sec.– 4m/sec. (0.6 ft/sec.– 13.1 ft/sec.)
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Status Indicators	Battery, temperature, TX/RX values
Battery Lithium	3 x 1.5 VDC AA, up to 5 years of battery life
Firmware Upgrade	Remotely over the air, via BlueEye
IP Rating	IPX4
Auto Learn	Yes
Installation Environment	Outdoor
Operating Temperature (with lithium batteries)	-20°C to +40°C (-4°F to 104°F)
Colors	White
Dimensions	11W x 21H x 7D cm (4.3W x 8.2H x 2.7D in.)
Weight	0.45 Kg



## AMD12M

Motion Sensor

### Features

- ▶ Three-axis accelerometer sensor
- ▶ Sensitivity level control
- ▶ Detection based on the number of seconds of constant motion
- ▶ Up to 3 years of battery life
- ▶ Temperature sensor
- ▶ Easy and fast installation
- ▶ Certifications: CE, EN 50131-2-2, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Wireless type	GFSK two-way with frequency and encryption hopping
Sensor Type	Three-axis accelerometer
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +14 dBm maximum, power managed
Transmission Time	Less than 20 ms
Supervision Time	20 minutes
Battery Lithium	1 x 3V CR2032 (included) about 3 years of battery life
Firmware Upgrade	Remotely over the air, via BlueEye.
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature	-20°C to +50°C (32°F to 122°F)
Colors	White / Black
Dimensions:	30W x 76H x 10D mm (1.2W x 3H x 0.4D in.)
Weight	20 grams







## FD25M

Water Detector

### Features

- ▶ Water detection
- ▶ Sound alert
- ▶ Up to 5 years of battery life
- ▶ Temperature sensor
- ▶ Control water supply valve (not included)
- ▶ Certifications: CE, EN 50131-2-2, FCC 15.247

### Technical Specifications

Power input	6 to 14 VDC, 100 mA (minimum)
Wireless type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz
RF power	868 MHz up to +14 dBm radiated 914 MHz up to +22 dBm in permitted countries.
Status Indicators in Application	Power supply, battery level, temperature, TX/RX values
Battery	2 x Lithium AA, up to 5 years of battery life.
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Firmware Upgrade	Remotely over the air, Via BlueEye, takes approximately 2 minutes to complete after the transfer begins.
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Colors	White
Dimensions	8.9W x 8.4H x 2.3D cm (3.5W x 3.3H x 0.9 in.)
Weight	70 g with bracket



## SD760M10

### Smoke Detector

## Features

- ▶ High-sensitivity photoelectric smoke detector
- ▶ Built-in alarm siren
- ▶ Test fire alarm button
- ▶ Up to 10 years of battery life
- ▶ Temperature sensor
- ▶ Certifications: CE, EN 14604, FCC 15.247

## Technical Specifications

Wireless type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Transmission Time	Less than 20 ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Status Indicators	Battery, temperature, TX/RX values
Battery Lithium	2 x 1.5 VDC AA, 1x 3.0 VDC CR123A, (up to 10 years of battery life)
Firmware Upgrade	Remotely over the air, via BlueEye
Auto Learn	Yes
Installation Environment	Indoor
Operating Temperature	4.4°C to +37.8°C (40°F to 100°F)
Colors	White
Dimensions	12 Ø x 4.6 cm (4.8 Ø x 1.9 in.)
Weight	0.21 Kg





## PGMZ1M

### 1-Output Expander

## Features

- ▶ One programmable output relay and one zone input
- ▶ 24V/1A max switched output
- ▶ Temperature sensor
- ▶ 12V power
- ▶ Certifications: CE, FCC 15.247

## Technical Specifications

Power input	AC/DC 5-16V, 300mA minimum
Wireless type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Might vary in different countries.
RF power	868 MHz: +14 dBm radiated, 914 MHz: up to +22 dBm in permitted countries.
Number of Outputs, inputs	One relay output 24V/1A, One zone input
Status Indicators in Application	Output status indications, tamper status, power supply, temperature, TX/RX values
Battery	2 x Lithium AA, up to 4 years of battery life.
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Firmware Upgrade	Remotely over the air, via BlueEye, about 2 minutes after start delay.
Auto Learn	Yes
Installation Environment	Indoor/Outdoor
Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Colors	White
Dimensions	4.6W x 12.45H x 3.3D cm (1.8W x 4.9H x 1.3D in.)
Weight	0.12 Kg



# REMOTE CONTROLS



**REM28M**  
8-Button Remote

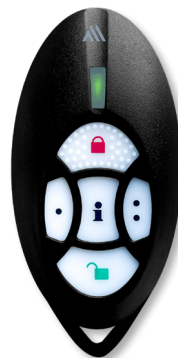
## Features

- ▶ Water-resistant
- ▶ Sleek and durable design
- ▶ System status
- ▶ Backlight buttons
- ▶ Audible indications
- ▶ Certifications: CE, FCC 15.247

## Technical Specifications

Wireless type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz range
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Transmission Time	Less than 20 ms
Battery Lithium	One 3V lithium battery (CR2032). Battery life expectancy is a minimum of 2 years.
Colors	White, Black
Dimensions	3.3W x 7.4H x 1.4D cm (1.2W x 2.9H x 0.55D in.)
Weight	20 g





## REM25M

### 5-Button Remote

#### Features

- ▶ Water resistant
- ▶ Sleek and durable design
- ▶ System status
- ▶ Backlight buttons
- ▶ Visual and audible indications
- ▶ Certifications: CE, FCC 15.247

## REM2M

### 5-Button Remote

#### Features

- ▶ Water resistant
- ▶ System status
- ▶ Backlight buttons
- ▶ Visual and audible indications
- ▶ Certifications: CE, FCC 15.247

#### Technical Specifications

	REM25M	REM2M
Wireless type	GFSK two-way with frequency and encryption hopping	
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz range	
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.	
Transmission Time	Less than 20 ms	
Battery Lithium	One 3V lithium battery (CR2032). Battery life expectancy is a minimum of 2 years.	
Colors	White, Black	
Dimensions	3.9W x 7.2H x 1.2D cm (1.5W x 2.8H x 0.5D in.)	3.8W x 7.8H x 1.8D cm (1.5W x 3.1H x 0.7H in.)
Weight	30 g	20 g





# ACCESSORIES



## CM1M

Chime and Sound Player

### Features

- ▶ Audio player for door chime entry exit and alarm
- ▶ Adjustable ringtones and volume levels
- ▶ 100-200V AC, wall socket pluggable
- ▶ Easy installation
- ▶ 6 zone chime alarm tones, 8 burglary alarm tones
- ▶ Certifications: CE, FCC 15.247

### Technical Specifications

Wireless type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz range
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Number of Ringtones	Zone chime alarm tones: 6 Burglary alarm tones: 8 Fire alarm tones: 8 (same melodies as burglary alarm tones) Entry tone: 1 Exit tone: 1 (same as entry tone) Panic alarm tone: 8 (same melodies as burglary alarm tones)
Supervision time	20 minutes, 10 minutes, and 3 minutes
Working Voltage	AC110 ~260V, 50/60Hz
Installation Environment	Indoor
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Colors	White
Dimensions	8.4W x 8.4H x 4.8D cm (3.3W x 3.3H x 1.9D in.)
Weight	74 g



## EG60

PoE++ Injector

### Features

- ▶ Gigabit PoE++ Injector 60W
- ▶ 100-240V AC



## EG30

PoE+ Injector

### Features

- ▶ Gigabit PoE+ Injector 30W
- ▶ 100-240V AC



## SR230M

Outdoor Siren

### Features

- ▶ 100 dB wireless siren with integrated strobe light
- ▶ Lens color options - Red, Blue, Amber
- ▶ Weather-resistant
- ▶ IP rating: IP54
- ▶ Temperature sensor
- ▶ Powered 12V
- ▶ Up to 5 years of battery life
- ▶ Certifications: CE, EN 50131-4, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Current Consumption	Standby: 5.75 $\mu$ A, Maximum: 450 mA
Wireless type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Status Indicators	Battery, temperature, TX/RX values
Battery Alkaline	3 x 1.5 VDC C, up to 5 years of battery life*
Siren	100 dBA or more (1 meter)
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Firmware Upgrade	Remotely over the air, via BlueEye
IP Rating	IP54
Auto Learn	Yes
Installation Environment	Outdoor
Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Colors	White
Dimensions	13.43W x 21.17H x 5.1D cm (5.29W x 8.34H x 2.01D in.)
Weight	0.55 Kg

\* It is recommended to replace alkaline batteries after four years due to risk of leakage.



## SR250M

Outdoor Siren

### Features

- ▶ 100 dB wireless siren with integrated strobe light
- ▶ Weather-resistant
- ▶ Lens color options - Red, Blue, Clear, Amber
- ▶ External power supply connector
- ▶ IP rating: IP54
- ▶ Temperature sensor
- ▶ Powered 12V
- ▶ Up to 5 years of battery life
- ▶ Certifications: CE, EN 50131-4, EN 50131-6, EN 50131-5-3, FCC 15.247

### Technical Specifications

Current Consumption	Sleep: 22 uA, Standby: 130 uA, Alarm: 550 mA
Wireless type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz Other countries might change
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Status Indicators	Battery, temperature, TX/RX values
Battery Alkaline	3 x 1.5 VDC C, up to 5 years of battery life*
Siren	100 dBA or more (1 meter)
Transmission Time	Less than 20ms
Supervision Time	20 minutes, 10 minutes (Default), and 3 minutes
Firmware Upgrade	Remotely over the air, via BlueEye
IP Rating	IP54
Auto Learn	Yes
Installation Environment	Outdoor
Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Colors	White
Dimensions	6W x 24H x 18D cm (2.3W x 9.5H x 7D in.)
Weight	1.21 Kg

\* It is recommended to replace alkaline batteries after four years due to risk of leakage.

# Palladium Security

## Monitoring & Response Services: Reliable, Canadian-Based Protection for Your Home and Business

### Welcome to Peace of Mind: Palladium Security's Monitoring & Response

At Palladium Security, your safety is our top priority. Our monitoring and response services are designed to keep you, your loved ones, and your property protected—day and night. With a proudly Canadian-based network of monitoring stations and a commitment to reliability, we deliver security solutions you can trust. Whether you're looking to safeguard your home, business, or both, Palladium Security offers a seamless, friendly, and professional experience from installation to ongoing support.

### How Palladium Security's Monitoring Works for You

Imagine a security system that never sleeps. That's what you get with Palladium Security's 24/7 monitoring. Once your alarm system is installed—either by our professional team or through our easy DIY kits—it's connected directly to our Canadian monitoring stations. These stations are staffed around the clock by trained professionals who are ready to respond the moment an alert is triggered.

When your system detects an intrusion, fire, or other emergency, it instantly sends a secure signal to our monitoring centre. Our team quickly reviews the alert, follows your personalized instructions, and takes immediate action—whether that means contacting you, dispatching a private guard, or notifying local police. You'll always know what's happening, thanks to real-time notifications and detailed follow-ups.

### Proudly Canadian: Local Service, National Coverage

Palladium Security is rooted in the communities we serve. Our network of seven authorized monitoring stations spans key regions across Canada, including Hamilton, Burlington, Oakville, Niagara, Brantford, London, and Kitchener-Waterloo. Each station is equipped to operate independently, ensuring uninterrupted service—even during local outages or emergencies. This Canadian-based approach means you're always supported by people who understand your community and care about your safety. Our local presence also allows us to offer rapid response times and personalized service. Whether you're in a bustling city or a quiet suburb, you can count on Palladium Security to be there when you need us most.

### Seamless Communication: How Your System Connects to Our Monitoring Stations

Your security system is designed for fast, reliable communication with our monitoring centers. Depending on your setup, your system may use high-speed internet, cellular networks (including 4G and 5G), or both. This dual-path approach ensures that even if one connection is disrupted, your alerts will still reach us without delay.

When an alarm is triggered, your system sends a secure, encrypted signal to our monitoring station. Our advanced technology ensures that every alert is received and acted upon in seconds. You'll receive instant notifications via phone, email, or app—keeping you informed and in control at all times.

## **Residential Monitoring: Smart Home Security for Every Family**

Your home is your sanctuary, and Palladium Security helps keep it that way. Our residential monitoring services are tailored to fit your lifestyle and needs. Whether you live in a condo, townhouse, or detached home, we offer flexible solutions that grow with you.

Upgrade your existing alarm system to a smart home setup with features like remote door locks, lighting control, video doorbells, and smartphone management. Choose professional installation for a hands-off experience, or opt for our DIY kits for easy self-setup. Either way, you'll enjoy 24/7 monitoring, instant alerts, and the comfort of knowing your home is protected by a Canadian-based team.

## **Business and Commercial Monitoring: Scalable Solutions for Every Size**

Businesses face unique security challenges, and Palladium Security is here to help. Our commercial monitoring services are designed to protect your assets, employees, and customers—whether you run a small shop or a large enterprise.

Start with essential intrusion detection, then add advanced features like access control, CCTV integration, and video verification as your business grows. Our modular approach means your security system can adapt to changing needs, providing robust protection at every stage. With instant notifications, remote app control, and detailed reporting, you'll always be in command of your business's safety.

## **Response Options: Police, Private Guards, and Verified Alarm Response**

**Police Response:** For emergencies and verified break-ins, we can notify your local police department. Many regions require alarm verification before dispatch, which we handle through video, audio, or key holder confirmation.

**Private Guard Response:** Our network of licensed, community-based guards provides rapid, on-site response to alarms. Guards are equipped with the latest technology and are trained to handle both residential and business incidents.

**Verified Alarm Response:** We follow best practices to minimize false alarms and ensure authorities respond only to genuine emergencies. Verification methods include two-way voice, video confirmation, keyholder communication, and cross-zone activation.





# APPLICATION



## BlueEye

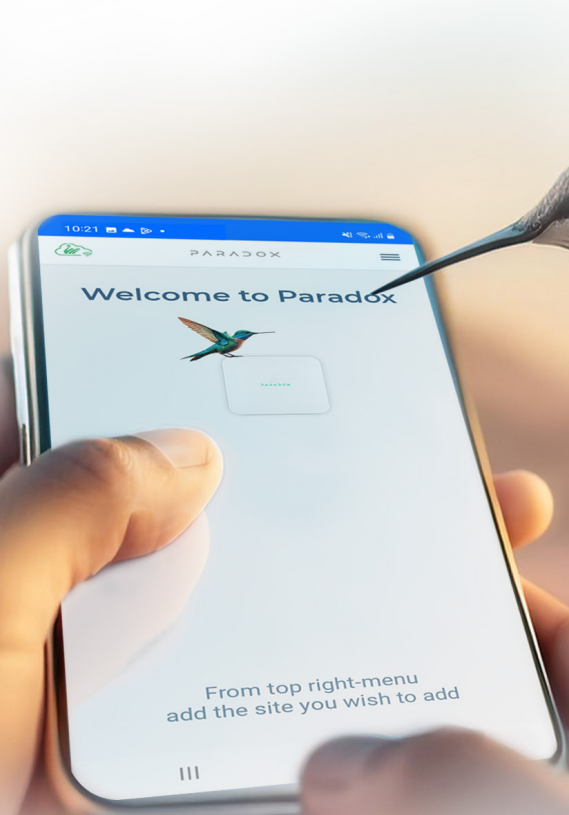
Mobile App for iOS™ and Android™

BlueEye puts the power of home and business security at your fingertips. With real-time alerts, and instant control of your alarm system, this app keeps you connected and protected—anytime, anywhere.

Whether you're activating your system on the go, or receiving notifications about suspicious activity, BlueEye helps you protect what matters most. Experience peace of mind with security that's always accessible.

It's the all-in-one application you will ever need!

- ▶ Receive real-time notifications for alarm alerts
- ▶ Arm/disarm your system from your smartphone
- ▶ Multi-user access with customized permissions
- ▶ User-friendly interface
- ▶ Easy setup and configuration
- ▶ Free mobile app





Palladium Security Systems  
Phalanx M25

Wireless Security Solution  
[www.palladiumsecurity.ca](http://www.palladiumsecurity.ca)  
905-522-2007

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