



# Paradox Product Catalogue

## MOBILE APPLICATION

### Paradox INSITE GOLD Mobile App



for Internet Connected Devices

The Insite Gold mobile application enables you to remotely access your Paradox security system via your mobile device\*.

#### ► Features

- Smartphone or internet connected device (iOS or Android)
- Arm and disarm the system
- Activate outputs to operate devices such as the garage door or home automation devices
- Generate panic or duress alarms
- Be advised when kids get home from school
- Review alarm conditions
- Push notifications
- Bridge to connect Paradox systems to Cellular or IP devices
- Auto-connect to PCS cellular devices and IP150+
- No port forwarding, IP programming/configuration or UPNP required
- Encrypted communication – no data kept on server

It's all the app you need to monitor and control what's going on in your home or business while you're on-the-go, directly from your Mobile device.

*\*Internet connection required.*



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SPECTRA combines innovative features with an advanced communication bus for a unique expandable security system. Through its communication bus, SPECTRA can be expanded via wireless and wired expansion modules and a variety of accessory modules. With its reliable communication technology, flexible expansion and great-looking keypads, SPECTRA is an ideal security system for any residential or commercial installation that requires up to 32 zones of protection.

The SPECTRA SP series' outstanding reliability easily expands to provide you with more features, such as StayD™, more on-board zones (expandable up to 32), more on-board PGMs (expandable up to 16), and support for the GSM / GPRS Modules (PCS Series), and Internet Module (IP150+). With their in-field firmware upgrade capability, the SPECTRA SP series allows installers to upgrade their system without hassle - quickly, easily and on site. And to further simplify installation, every SPECTRA panel can be configured using easy-to-follow program menus.

## SPECTRA

### Compatibility Overview



SPECTRA  
Control Panels Comparison

Features



	SP4000	SP5500
StayD™	▲	▲
Maximum Zones*	32	32
On-board Zones	4 (8 with ATZ)	5 (10 with ATZ)
Expansion Zones	24	24
Keypad Zones	15	15
Partitions	2	2
User Codes	32	32
PGMs	12 (1 on-board)	16* (2 on-board)
PGM +/- Trigger	-	-
Siren	Wired	Wired / Wireless with RTX3
Alarm Relay	-	-
Event Buffer	256	256
Wireless Expansion	▲	▲
2-Wire Smoke Detector Input	-	-
GPRS / GSM Module (PCS Series)	▲	▲
Compatible with IP150+	▲	▲
Compatible with VDMP3	▲	▲
Patented 2 Opto Coupler Dialer Circuit	▲	▲
In-Field Firmware Upgradeable	▲	▲

Specifications

Input Voltage	16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)	16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)
Internal Power Supply	1.1A switching	1.1A switching
Battery	12 Vdc, 7 Ah	12 Vdc, 7 Ah
Battery Charging Current	Limited by 1.1A supply current (AUX consumption - no dedicated battery current limit circuit)	350 mA or 700 mA
Auxiliary Current	450 mA, fuseless shutdown at 600 mA	700 mA maximum, fuseless shutdown at 1.1A
Bell Output	1A (fuseless shutdown at 3A)	1A (fuseless shutdown at 3A)
PGM Output	1 x 100 mA open collector	2 x 100 mA solid state
Operating Temperature	-10 to 55 °C (14 to 131 °F)	-10 to 55 °C (14 to 131 °F)
Metal Box	Fits in 20 x 25.5 x 7.6 cm (8 x 10 x 3 in.) and 28 x 28 x 7.6 cm (11 x 11 x 3 in.) metal boxes	Fits in 20 x 25.5 x 7.6 cm (8 x 10 x 3 in.) and 28 x 28 x 7.6 cm (11 x 11 x 3 in.) metal boxes
Dimensions	6.6 x 14 x 2.5 cm (2.5 x 5.5 x 1 in.)	8.9 x 19 x 2.5 cm (3.5 x 7.5 x 1 in.)
Special Feature   Certification	STAY D™	

▲ = included feature \*any of which can be wireless \*\*optional

SPECTRA

Control Panels Comparison

Features



	SP6000	SP7000
StayD™	▲	▲
Maximum Zones*	32	32
On-board Zones	8 (16 with ATZ)	16 (32 with ATZ)
Expansion Zones	24	16
Keypad Zones	15	15
Partitions	2	2
User Codes	32	32
PGMs	16* (2+2** on-board)	16* (4 on-board)
PGM +/- Trigger	▲	▲
Siren	Wired / Wireless with RTX3	Wired / Wireless with RTX3
Alarm Relay	1**	1
Event Buffer	256	256
Wireless Expansion	▲	▲
2-Wire Smoke Detector Input	▲	▲
GPRS / GSM Module (Series)	▲	▲
Compatible with IP150+	▲	▲
Compatible with VDMP3	▲	▲
Patented 2 Opto Coupler Dialer Circuit	▲	▲
In-Field Firmware Upgradeable	▲	▲

Specifications

Power Supply	1.5A switching	1.5A switching
Input Voltage	16.5 Vac (50 or 60 Hz) minimum 20 VA (40VA recommended)	16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)
Battery	12 Vdc, 7Ah	12 Vdc, 7Ah
Battery Charging Current	350 or 700 mA	350 or 700 mA
Auxiliary Current	700 mA maximum, fuseless shutdown at 1.1A	700 mA maximum, fuseless shutdown at 1.1A
Bell Output	1A (fuseless shutdown at 3A)	1A (fuseless shutdown at 3A)
PGM Output	2 x 100 mA solid state and 2 x 100 mA open collector (+/- trigger)	2 x 100 mA open collector and 2 x 100 mA solid state (+/- trigger)
Operating Temperature	-10 to 55 °C (14 to 131 °F)	0 to 50 °C (32 to 122 °F)
Metal Box	Fits in 20 x 25.5 x 7.6 cm (8 x 10 x 3 in.) and 28 x 28 x 7.6 cm (11 x 11 x 3 in.) metal boxes	Fits in 20 x 25.5 x 7.6 cm (8 x 10 x 3 in.) and 28 x 28 x 7.6 cm (11 x 11 x 3 in.) metal boxes
Dimensions	8.9 x 19 x 2.5 cm (3.5 x 7.5 x 1 in.)	10.8 x 20.3 x 2.5 cm (4.3 x 8 x 1 in.)
Special Feature   Certification	<div> <div>CE</div> <div>EN 50131 GRADE 2</div> <div>EN 50130-5 CLASS II</div> <div>EN 50136 ATS 2</div> <div>EN 45011 SYSTEM 5</div> </div>	<div> <div>CE</div> </div>

▲ = included feature

\*any of which can be wireless \*\*optional

SPECTRA Keypads  
Touchscreen



TM70  
Wired Touchscreen Keypad

- Features
  - 7" vivid color display
  - Built-in zone input
  - Customisable labels (zones, partitions, users, doors, and PGMs)
  - External SD Media Card slot (4 GB with 2 GB of free space)
  - Firmware upgradeable via SD card
  - Indoor temperature reading
  - In-wall bracket (optional)
  - Compatible with EVO, Spectra and Magellan

► Specifications

Display	16-bit, color LCD; 7", 800 x 480 pixels
Input Voltage	9 to 15 Vdc
Consumption	250 mA at max brightness + 80 mA sounder
Keypad Zone Input	1 for a detector or external temperature sensor
Humidity	5 to 90%
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions	17.7 x 11.4 x 1.5 cm (7 x 4.5 x 0.6 in.)



TM50  
Wired Touchscreen Keypad

- Features
  - 5" display
  - Controls and displays up to 32 zones in 2 partitions
  - Controls up to 8 PGM outputs
  - Customisable labels (zones, partitions, users, and PGM outputs)
  - Powerful advanced processor
  - SpotOn Locator™ provides customisable graphic presentation of zone locations based on floor plans or photographs (store up to 32 floor plans personalised floor plans and images)
  - OneScreen Monitoring™ displays all partitions, all zones status reports
  - Solo Test™ for easy testing of system's zones
  - External SD Media Card Slot for firmware upgrades and uploading photos for slide show
  - Multilingual display
  - Quick change fashion color frames

► Specifications

Display	16-bit, color LCD; 6.4 x 11.2 cm (2.5 x 4.4 in.), 480 x 272 pixels
Input Voltage	9 to 16 Vdc
Current Consumption	Alarm: 200 mA
Keypad Zone Input	1 for a detector or external temperature sensor (TEMP07)
Humidity	5 to 93%
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions / Weight	14.4 x 9.6 x 1.4 cm (5.7 x 3.8 x 0.6 in.) / 165g (5.8 oz)



SPECTRA Keypads  
LCD



**K32LCD+**  
Wired LCD Keypad

- **Features**
  - Controls and displays up to 32 zones in 2 partitions
  - 8 one-touch action buttons
  - 3 keypad-activated panic alarms
  - 32-character, blue LCD with programmable labels
  - Menu-driven programming for easy system setup (installer and end-user)
  - StayD™ status LED
  - Independently-set chime zones
  - Separate Arm, Sleep, Stay, and Off LEDs per partition
  - Adjustable key backlight, contrast and scroll speed
  - Multilingual display
  - In-field firmware upgradeable via 307U

► **Specification**

Input Voltage	12 to 14 Vdc
Current Consumption	Typical: 43mA Maximum: 86mA
Keypad Zone Input	1
Connections	4-wire expansion bus
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions	12.6 x 15 x 2.7 cm (5 x 5.9 x 1.1 in.)



**K35**  
Wired Fixed LCD Keypad

- **Features**
  - Controls and displays the status of 32 zones in 2 partitions
  - 8 one-touch action buttons
  - 3 keypad-activated panic alarms
  - Fixed message display that guides you in the operation of the system
  - StayD™ status icon
  - Displays Arm, Sleep, Stay and Disarmed status for each partition
  - Displays troubles, bypassed zones and alarm memory
  - Adjustable backlight
  - Independently set chime zones
  - Available in multiple languages
  - In-field firmware upgradeable via 307U

► **Specification**

Input Voltage	12 to 14 Vdc
Current Consumption	Typical: 38mA Maximum: 103mA
Keypad Zone Input	1
Connections	4-wire expansion bus
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	12.3 x 14.4 x 3.2 cm (4.9 x 5.7 x 1.3 in.)



SPECTRA Keypads  
LCD



K37  
Wireless Fixed LCD Keypad

- Features
  - Controls and displays the status of 32 zones in 2 partitions
  - 8 one-touch action buttons
  - 3 keypad-activated panic alarms
  - Fixed message display that guides you in the operation of the system
  - StayD™ status icon
  - Displays Arm, Sleep, Stay and Disarmed status for each partition
  - Displays troubles, bypassed zones and alarm memory
  - Goes into Standby Mode after 20 seconds to save battery life, but remains synchronized with the panel to automatically re-activate upon an entry delay or alarm
  - Adjustable backlight
  - Independently set chime zones
  - Can be used with external 6VDC power adapter as an alternative power source (PA6 not included)
  - Available in multiple languages
  - In-field firmware upgradeable via 307U

► Specification

Input Voltage	Primary Power: 6 Vdc (300 mA) Backup Power: 2 x AA batteries
RF Frequency	433 or 868 MHz
Battery Life	Up to 1 year
Wireless Range	40m (130 ft) typical in residential environment
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	12.3 x 14.4 x 3.2 cm (4.9 x 5.7 x 1.3 in.)

SPECTRA Keypads  
LED



K32+  
Wired LED Keypad

- Features
  - Controls and displays up to 10 zones; partition 1 only
  - StayD™ Status LED
  - Arm, Sleep, Stay and Off keys illuminate to indicate partition status
  - Patented Key Light display (button lights up to indicate an open zone)
  - Adjustable key backlight
    - Available in multiple languages

► Specification

Input Voltage	12 to 14 Vdc
Current Consumption	Typical: 40mA Maximum: 150mA
Keypad Zone Input	1
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions	12.6 x 15 x 2.7 cm (5 x 5.9 x 1.1 in.)

SPECTRA Keypads  
LED



**K10V**  
Vertical Wired LED Keypad

- **Features**
  - Controls and displays up to 10 zones in 2 partitions
  - 7 one-touch action buttons
  - 3 keypad-activated panic alarms
  - StayD™ mode
  - 10-zone LED display
  - LED displays for each partition: Arm, Sleep, Stay and Off
  - Patented Key Light display (button lights up to indicate an open zone)
  - Adjustable key backlight
  - Connects to 4-wire communication bus
  - Available in multiple languages

► **Specification**

Input Voltage	12 to 14 Vdc
Current Consumption	Typical: 18mA Maximum: 73mA
Keypad Zone Input	1
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions	K10H: 9.6 x 13.5 x 3.2 cm (3.8 x 5.3 x 1.3 in) K10V: 13.5 x 9.6 x 3.2 cm (5.3 x 3.8 x 1.3 in)



**K10H**  
Horizontal Wired LED Keypad

- **Features**
  - Controls and displays up to 10 zones in 2 partitions
  - 7 one-touch action buttons
  - 3 keypad-activated panic alarms
  - StayD™ mode
  - 10-zone LED display
  - LED displays for each partition: Arm, Sleep, Stay and Off
  - Patented Key Light display (button lights up to indicate an open zone)
  - Adjustable key backlight
  - Connects to 4-wire communication bus
  - Available in multiple languages

► **Specification**

Input Voltage	12 to 14 Vdc
Current Consumption	Typical: 18mA Maximum: 73mA
Keypad Zone Input	1
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions	K10H: 9.6 x 13.5 x 3.2 cm (3.8 x 5.3 x 1.3 in) K10V: 13.5 x 9.6 x 3.2 cm (5.3 x 3.8 x 1.3 in)

## SPECTRA Zone Expanders



### ZX8SP

#### 8-Zone Expansion Module

##### ► Features

- 8 zone inputs
- 1 PGM output (50 mA PGM)
- Uses zone input as an anti-tamper switch input

##### ► Specifications

Input Voltage	12 to 16 Vdc
Current Consumption	28 mA
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	14 x 4.5 x 1.8 cm (5.5 x 1.8 x 0.7 in.)

### RTX3

#### Wireless Expansion Module



##### ► Features

- 32 wireless addressable zones
- Maximum number of remote controls: 999 with EVO (32 with SP)
- Compatible with REM1, REM2, REM3, REM15, REM101 and RAC2
- Supports wireless PGMs (8with EVO, 16 with SP Series only)
- Supports SR230 Wireless transmitters
- Supports MAGELLAN transmitters
- Supports 2 RPT1 and 8 K37 (SP Series only)
- RF jamming supervision
- Low Battery, tamper and check-in supervision for reconnected modules
- Transmitter signal strength display
- 3 PGM outputs and 1 optional output
- In-field firmware upgradeable via 307USB

### RX1

#### Wireless Receiver



##### ► Features

- Controls up to 32 wireless zones
- Controls up to a maximum of 32 remote controls
- Compatible with remotes REM101, REM1, and REM15
- Compatible with transmitters DCT10, DCTXP2, DCT2, PMD2P, PMD75, PMD85, SD360, NVR780, GS250, and G550
- RF jamming supervision
- Low battery, tamper, and check-in supervision for transmitters
- Transmitter signal strength display
- 2 PGM outputs
- In-field firmware upgradeable via 307USB

For full details on:



**ZX8**  
8-Zone Expansion  
Module

Refer to page 18



**HUB2**  
2-Port Hub and  
Bus Isolator

Refer to page 21

## SPECTRA Special Modules



### RPT1

#### Wireless Repeater Module

##### ► Features

- Extends the range of wireless communications
- Built-in transceiver
- Supports all MAGELLAN transmitters (including two-way)
- Selects which zone, PGM and / or keypad signals are repeated
- Signal strength display
- RF jamming supervision
- Fully supervised by panel or console
- Universal input (N.O. / N.C.)
- In-field firmware upgradeable via 307USB

##### ► Specificatio

Voltage Input	16 Vac, 20 VA minimum
Battery	Backup battery DC: 12 Vdc 5 Ah battery
RF Frequency	433 or 868 MHz
Current Consumption	65 mA
Wireless Range	Typical residential environment 75m (240 ft) with 433 MHz 50m (160 ft) with 868 MHz
Number of Outputs	1 PGM N.O. / N.C. 5A relay, 60 Vdc / 120 Vac maximum
Operating Temperature	0 to 50 °C (32 to 122 °F)
Metal Boxes	Fits in 20 x 25.5 x 7.6 cm (8 x 10 x 3 in.) and 28 x 28 x 7.6 cm (11 x 11 x 3 in.) metal boxes
Dimensions	32 x 14 cm (12.6 x 5.5 in.)

For full details on:



**PGM4**  
4-Output Expansion Module

Refer to page 21



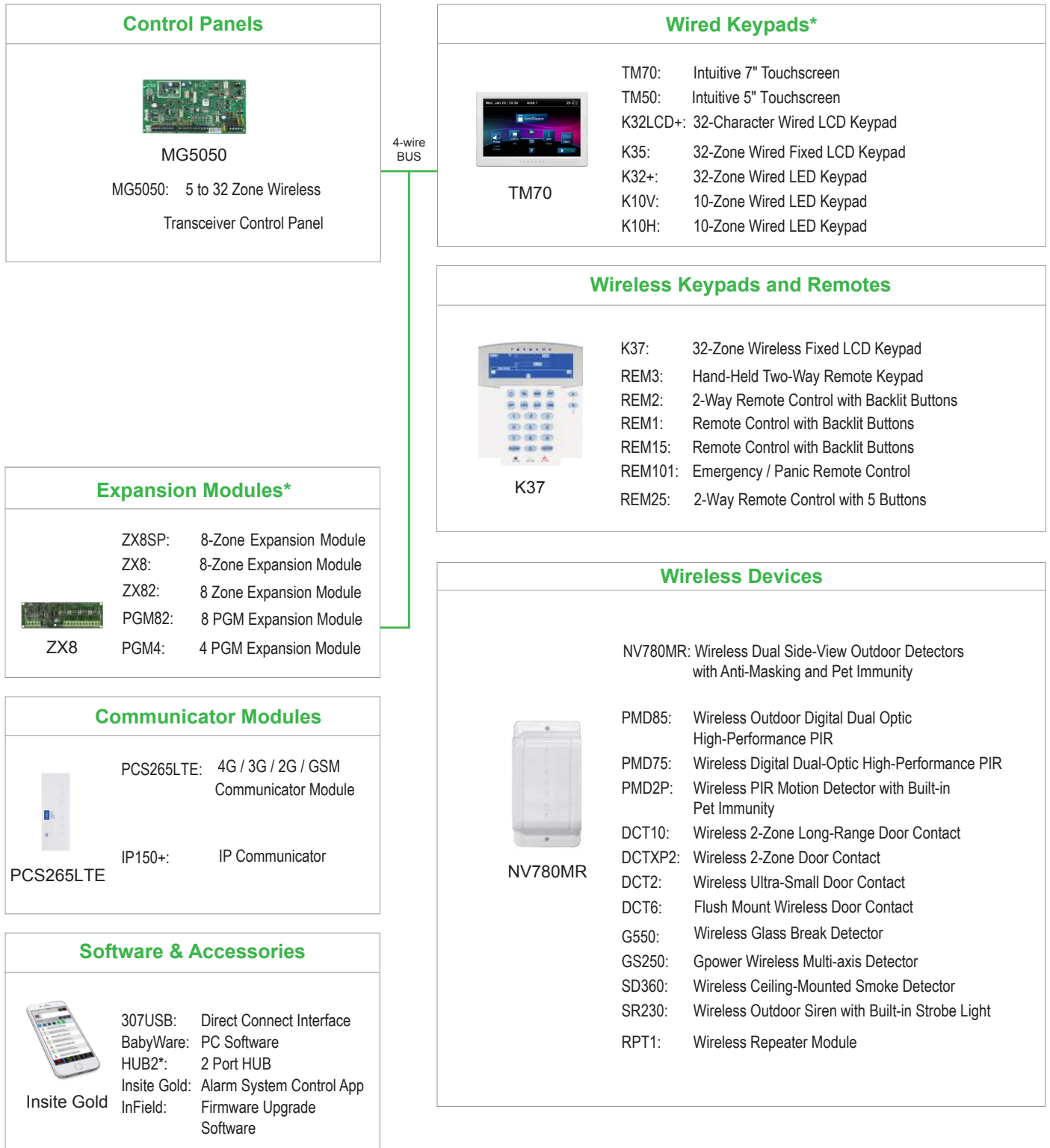
Our MAGELLAN two-way wireless security systems offers you a combination of security, wireless convenience, easy installation and attractive consumer features for any residential or small commercial installation.

With its in-field firmware upgrade capability, the MAGELLAN line allows installers to upgrade systems without hassle — quickly, easily and on site. And to further simplify installation, every MAGELLAN panel can be configured using easy-to-follow program menus.

MAGELLAN consoles are all-in-one wireless security systems that combine today's in-demand consumer features with ease of use, high security, and a great look.

## MAGELLAN

### Compatibility Overview



\*non-applicable for the MG6250

# MAGELLAN

## Control Panels Comparison

### Specification



	MG5050
Input Voltage	16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)
Auxiliary Current	700 mA maximum, fuseless shutdown at 1.1A
RF Frequency	433 MHz
Battery	12 Vdc, 7Ah
Battery Charging Current	350 mA or 700 mA
PGM Output	3 x 100 mA open-collector and 1 x 100 mA solid state
Bell Output	1A (fuseless shutdown at 3A)
Operating Temperature	0 to 50 °C (32 to 122 °F)
Metal Box	Fits in 20 x 25.5 x 7.6 cm (8 x 10 x 3 in.) and 28 x 28 x 7.6 cm (11 x 11 x 3 in.)
Dimensions	19 x 10 x 3 cm (7.5 x 4 x 1.2 in.)
Special Feature   Certification	<div> </div>

### Features












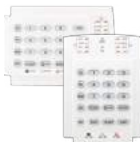


	MG5050
Built-In Transceiver	▲
Supported Zones*	32, 5 on-board (10 with ATZ
Keypad Zones	15
Partitions	2
Users / Remote Controls	32
PGMs	16* maximum (4 on-board)
Events Buffered	256
Wireless Repeaters	2
Siren	Wired / Wireless
Wireless Sirens	4 (SR230)
Wireless Keypads	4 K37
Expansion Bus	▲
GPRS / GSM Module (PCS Series)	▲
Internet Module (IP150+)	▲
Voice & Utility Reporting & User Menus	VDMP3
Personal Dialing	▲
Two-Way Voice Communication	-
In-Field Firmware Upgrade	▲
RF Jamming Supervision	▲

### Consumer Features

Hands-free Speakerphone	-
High-quality Voice and Sound	-
Family Message Center	-
Alarm Clock	-

▲ = included feature \*any of which can be wireless

For full details on:		
 <p><b>PGM4</b> 4-Output Expansion Module</p> <p>Refer to page 21</p>	 <p><b>K35</b> Wired Fixed LCD Keypad</p> <p>Refer to page 05</p>	 <p><b>ZX8SP</b> 8-Zone Expansion Module</p> <p>Refer to page 09</p>
 <p><b>HUB2</b> 2-Port Hub and Bus Isolator</p> <p>Refer to page 21</p>	 <p><b>K32+</b> Wired LED Keypad</p> <p>Refer to page 06</p>	 <p><b>RPT1</b> Wireless Repeater Module</p> <p>Refer to page 09</p>
 <p><b>ZX8</b> 8-Zone Expansion Module</p> <p>Refer to page 18</p>	 <p><b>K37</b> Wireless Fixed LCD Keypad</p> <p>Refer to page 06</p>	 <p><b>K32LCD+</b> Wired LCD Keypad</p> <p>Refer to page 05</p>
 <p><b>TM70</b> Wired Touchscreen Keypad</p> <p>Refer to page 04</p>	 <p><b>TM50</b> Wired Touchscreen Keypad</p> <p>Refer to page 04</p>	 <p><b>K10V / K10H</b> Wired LED Keypad</p> <p>Refer to page 07</p>

EVO systems provide the highest level of protection for banks, military and government sites, luxurious residential homes and any place where maximum security is essential. These systems are designed to be easy to use and their modular concept provides installers with work-saving features that make expanding, installing and servicing them quick and convenient.

Expand your system by adding plug-and-play expansion modules anywhere and in any combination on the 4-wire EVO bus. Modules are connected to the bus at the most convenient location and then their zone inputs are assigned to the desired zone and partition. Also, only a module's used inputs are assigned to zones in the system. Keyswitches, remote controls and unused module inputs do not use up zones. Once installed, all bus modules, including motion detectors, can be programmed remotely via a keypad or via the BabyWare PC software.

EVO integrates powerful access control solutions, enabling your alarm system database to manage access to up to 32 doors, and monitor their access from inside any partition. You can use BabyWare and NEware to manage permissions for all users and access. By merging security and access control, EVO increases your security system protection to an unprecedented level.

## EVO Compatibility Overview

# EVO



EVO

Control Panels Comparison



Features

	EVOHD
Maximum Zones	192
On-Board Zones	8 (16 with ATZ + Tamper Input)
Partitions	8
Users	999
In-Field Firmware Upgradeable	▲
Access Control	32 doors
Events Buffered	3584
PGMs	32 (5 on board)
Siren	Wired
Total Expansion Modules	254
Landline Speed for Programming	300 / 1200 Bps

Specification

Internal Power Supply	2.5A switching
Input Voltage	16 Vac, 40 / 75 VA, 50-60 Hz
Battery	12 Vdc, 7 Ah minimum
Battery Charging Current	Up to 1.5A
Auxiliary Output	13.8 Vdc 2A (requires a 75 VA transformer) typical sustained with fuseless shutdown at 2.5A
Bell Output	1A typical, fuseless shutdown at 3A
PGM Output	PGM1: Open collector output PGM2 to PGM4: 100 mA solid-state relays with +/- trigger PGM5: Form C relay output rated at 5A / 28 Vdc N.O / N.C.
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions	20.2 x 9.6 x 4.4 cm (8 x 3.8 x 1.8 in.)

Certification / Special Feature	CE EN 50131 GRADE 3 EN 50130-5 CLASS II EN 50136 SP2 EN 45011 SYSTEM 5
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▲ = included feature



EVO Keypads  
Touchscreen



TM70  
Intuitive Touchscreen Keypad

- ▶ **Features**
  - ▶ 7" vivid color display
  - ▶ Built-in zone input
  - ▶ Customisable labels (zones, partitions, users, doors, and PGMs)
  - ▶ External SD Media Card slot (4 GB with 2 GB of free space)
  - ▶ Firmware upgradeable via SD card
  - ▶ Indoor temperature reading
  - ▶ In-wall bracket (optional)
  - ▶ Compatible with EVO, Spectra and Magellan

▶ **Specification**

Display	16-bit, color LCD; 7", 800 x 480 pixels
Input Voltage	9 to 15 Vdc
Consumption	250 mA at max brightness + 80 mA sounder
Keypad Zone Input	1 for a detector or external temperature sensor
Humidity	5 to 90%
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions	17.7 x 11.4 x 1.5 cm (7 x 4.5 x 0.6 in.)



TM50  
Wired Touchscreen Keypad

- ▶ **Features**
  - ▶ 5" Display
  - ▶ Controls and displays up to 192 zones in 8 partitions
  - ▶ Controls up to 8 PGM outputs
  - ▶ Customisable labels (zones, partitions, users, and PGM outputs)
  - ▶ Powerful advanced processor
  - ▶ OneScreen Monitoring™ displays all partitions, all zones status reports
  - ▶ External SD Media Card Slot for firmware upgrades & uploading photos

▶ **Specifications**

Display	16-bit, color LCD; 6.4 x 11.2 cm (2.5 x 4.4 in.)
Input Voltage	9 to 16 Vdc
Current Consumption	200 mA maximum alarm
Keypad Zone Input	1 for a detector or external temperature sensor
Humidity	5 to 93%
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions / Weight	14.4 x 9.6 x 1.4 cm (5.7 x 3.8 x 0.6 in.) / 165g (5.8 oz)

EVO Keypads  
LCD



K641+  
Wired LCD Keypad

- ▶ **Features**
  - ▶ Controls and displays up to 192 zones in 8 partitions
  - ▶ 14 one-touch action buttons
  - ▶ 3 keypad-activated panic alarms
  - ▶ 32-character, blue LCD with programmable labels
  - ▶ Zone alarm display: zones in alarm are shown until the system is disarmed
  - ▶ Adjustable key backlight, contrast, and scroll speed
  - ▶ Multilingual display
  - ▶ In-field firmware upgradeable via 307USB and InField software
  - ▶ Display time of 12 or 24 hour format

▶ **Specification**

Input Voltage	9 to 16 Vdc
Current Consumption	150 mA maximum
PGM Output	1
Keypad Zone Input	1
Connections	4-wire communication bus
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions	12.3 x 14.4 x 3.2 cm (4.9 x 5.7 x 1.3 in.)

EVO Motion Detectors  
Indoor



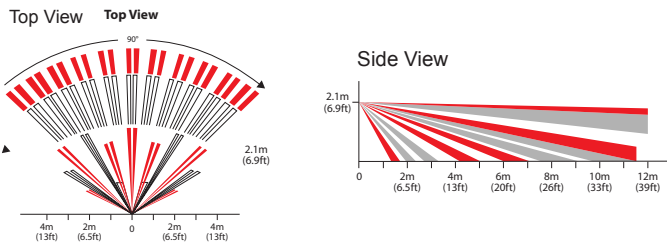
**DM70**  
High-Security Motion Detector Module  
with Pet Immunity

► Features

- 2 x dual opposed element PIR sensors
- Auto-Pulse Signal Processing\* (APSP)
- Anti-tamper switch
- 4-wire bus connection

► Specification

Detection Range	11 x 11m (35 x 35 ft) at 90°
Pet Immunity	Up to 40 kg (90 lb)
Input Voltage	9 to 16 Vdc
Current Consumption	Typical: 16 mA, Maximum: 30 mA
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	6.5 x 12.6 x 5.5 cm (2.6 x 4.9 x 2.2 in.)



\* Patented



**DM50**  
Dual Element Motion Detector Module

► Features

- Patented Digital Motion Detection (no analogue circuitry)
- Digital Auto Pulse Signal Processing
- Digital Shield algorithm software
- Metal shield maximizes protection from EMI and RFI signals
- 12m (40ft) X 12m (40ft) range with 110° viewing angle

► Specifications

Detection Range	12 x 12m (40 x 40 ft) at 110°
Input Voltage	9 to 16 Vdc
Current Consumption	Typical: 16 mA, Maximum: 30 mA
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	6.6 x 9.3 x 5.2 cm (2.6 x 3.7 x 2 in.)

EVO Motion Detectors  
Digital Ceiling



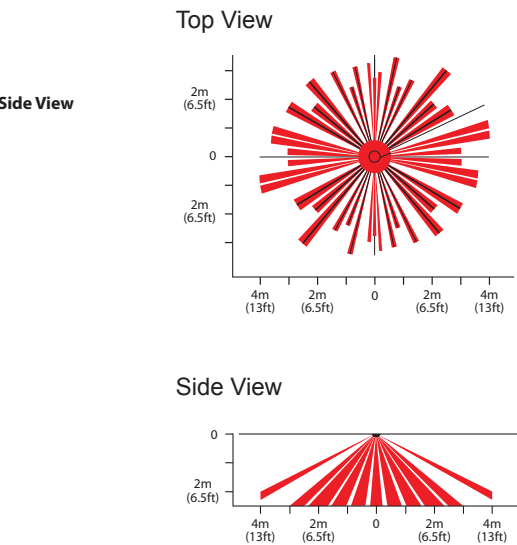
**DG467**  
360° Ceiling-Mounted Digital Motion Detector

► Features

- Dual element PIR sensor
- Anti-tamper switch
- Auto-Pulse Signal Processing\* (APSP)
- 4-wire bus connection

► Specification

Detection Range	7 x 6m (24 x 20 ft) at 2.4m (8 ft); 11 x 6m (35 x 20 ft) at 3.7m (12 ft)
Input Voltage	9 to 16 Vdc
Current Consumption	Typical: 29 mA
Alarm Output Available	Form A relay, N.C.
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	10.8 diameter x 13.5 cm depth (4.25 x 1.38 in.)



\* Patented

EVO Motion Detectors



**NV780MX**  
Dual Side-View Outdoor Detectors with  
Anti-Masking and Pet Immunity

- **Features**
- Dual side anti-masking detection – Active IR detection, fast 20 seconds detection designed for outdoor detection of sprayed liquids and blocking items up to 25 cm (10 in.)
  - 4 dual element sensors arrangement
  - Combination optics – mirror and Fresnel Lens for optimal sharp detection
  - Single or Dual operation modes
  - Optical and digital range adjustments
  - Dual LED and buzzer indicators
  - Wall-mount with built-in level tool
  - Wireless frequency selection NV780MR supports two internally selectable frequencies
  - Single or Dual operation modes
  - Optical and digital range adjustments
  - Dual LED and buzzer indicators
  - Wall-mount, with built-in level tool

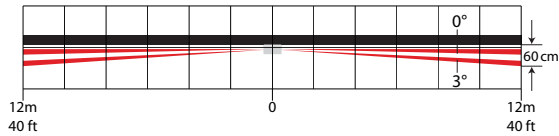
**Active IR Anti-Mask**

Paradox Anti-Masking technology, anti-masking detection regulatory requirements with enhanced range and shorter detection period resulting in superior Anti-masking detection and stable reliability. The NV780M Series recognizes objects placed close proximity up to 30 cm / 12 in. of the lens within 20 seconds detection confirmation developed for outdoor environments, detection includes hard to detect clear lacquer, aluminum foil and clear adhesive tape, as well as degradation of the lens due to dirt or dust.

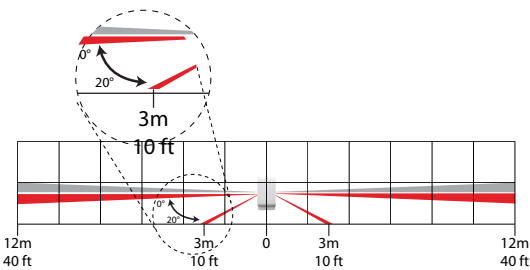
► **Specification**

Detection Range	2 x 3m to 12m (9.8 to 39 ft) at 2.5m height
Pet Immunity	Up to 40 kg (90 lb)
Input Voltage	9 to 15 Vdc
Current Consumption	Typical / Standby: 37 mA, Maximum: 80 mA
Operating Temperature	-35 to 50°C (-31 to 122°F)
Dimensions	21 x 11 x 7 cm (8.2 x 4.3 x 2.7 in.)

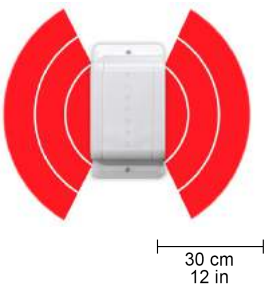
Wall (Top View)



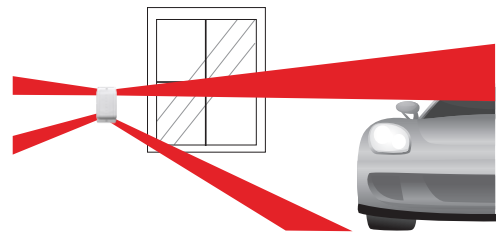
Range Adjustment



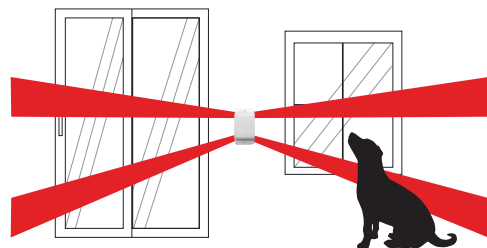
Anti-Mask Range



Range Adjust



Pet Immune



EVO Motion Detectors  
Outdoor



DG85  
Outdoor Digital Motion Detector with Pet Immunity

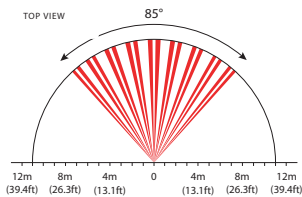
- Features
  - 2 x Dual-Opposed element PIR sensors
  - Increased white light rejection
  - Anti-tamper switch
  - Impact and temperature resistant casing, with UV protected lens
  - Multi-Level sensitivity adjustment
  - Can be used with SB85 Heavy Duty Outdoor Swivel Bracket

► Specification

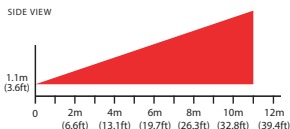
Detection Range	11 x 11m (36 x 36 ft); 90° - Pet Array
Pet Immunity	Up to 40 kg (90 lb)
Input Voltage	9 to 16 Vdc
Current Consumption	Typical: 30 mA Maximum: 40 mA
Alarm Output Available	Form A relay, N.C.
IP Rating	IPX4
Operating Temperature	-35 to 50 °C (-31 to 122 °F)
Dimensions	7.9 x 17.5 x 6.6 cm (3.1 x 6.9 x 2.6 in.)

Horizontal Curtain Beam

Top View



Side View



EVO Motion Detectors  
Outdoor



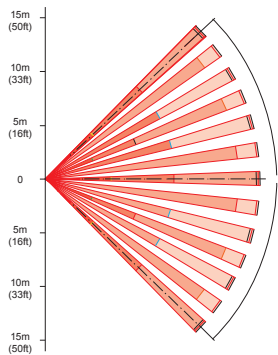
NVX80  
Powerful Motion Detector with MW Anti-Mask and SeeTrue™ Technology for Outdoor / Indoor Use

- Features
  - 8 detection channels including 2 x Quad forward looking PIR channels, 2 x 10.5 GHz MW channels and 1 x Quad standalone creep detector
  - Paradox Active IR and MW Anti-Mask\* recognizes lens degradation and objects blocking the main lens within 30 cm of the detector
  - Built-in color OLED display, with 4-button interface, enables easy signaling configuration and maintenance without opening the uni
  - 3 relay outputs enable maximum flexibility and compatibility with other security systems
  - EVO interface with remote programming capability using EVO bus
  - Multi-level detection sensitivity adjustment
  - Dual-tamper mechanism (wall / cover)
  - Can be used with a bracket
  - Can be used with RC80 Rain Cover (included)

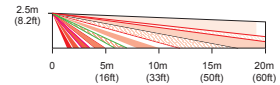
► Specification

Detection Range	17 x 15m (56 x 49 ft); 90° with Creep detection
Pet Immunity**	Recognizes animals up to 20 kg (44 lb)
Input Voltage	9 to 16 Vdc
Current Consumption	Typical: 75 mA, Maximum: 100 mA
Alarm Output Available	Form C N.O. / N.C., 2 x Form A N.O. or N.C. (selectable)
IP Rating	IP55
Operating Temperature	-35 to 60 °C (-31 to 140 °F)
Dimensions	9.8 x 22.9 x 9.2 cm (3.8 x 9.0 x 3.6 in.)

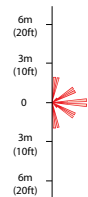
Top View



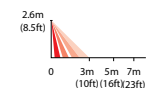
Side View



Top View  
(Creep Zone)



Side View  
(Creep Zone)



\* Patent Pending \*\* Patented

EVO Wired Motion Detectors

Analog



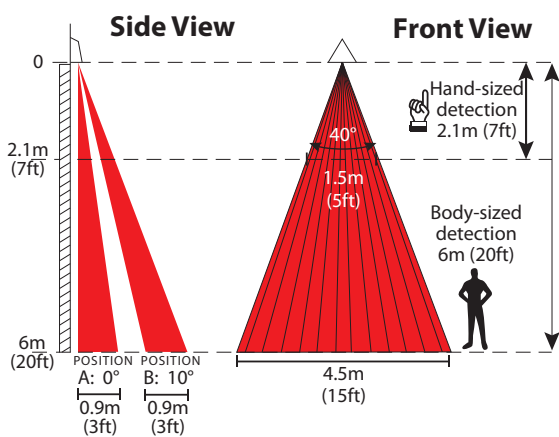
460

Vertical View PIR Motion Detector

- Features
- Ideal for entry / exit protection and exit access requests
  - Dual element PIR sensor
  - Anti-tamper switch
  - Adjustable lens position (0° or 10°)

► Specification

Detection Range	Hand-sized objects for card access applications: 2 x 1.5m (7 x 5 ft)  Body-sized objects for security applications: 6 x 4.5m (20 x 15 ft)
Input Voltage	(12 Vdc mode) 9 to 16 Vdc (24 Vdc mode) 20 to 27 Vdc
Current Consumption	Typical: 15 mA Maximum: 18 mA
Relay Output	N.C. or N.O.
Operating Temperature	-10 to 50 °C (14 to 122 °F)
Dimensions	11.4 x 9.2 x 3.2 cm (4.5 x 3.6 x 1.3 in.)



EVO Wired Perimeter Detectors

Glass Break Bus Detector



DG457

Glass Break Detector

- Features
- Breakage in panes of glass 40.6 x 61 cm (16 x 24 in.) or larger are detected
  - Effective coverage of plate, tempered, and laminated glass without the need for complicated sensitivity adjustments
  - Two operational modes: EVO bus or conventional relay operation
  - Anti-tamper switch
  - Full audio and infrasonic spectrum analysis
  - 7 frequency digital filters, digital amplifier gain, and frequency fluctuation assessments
  - Impact and shock wave analysis
  - High-immunity to RFI and EMI signals

► Specification

Detection Range	Adjustable between 1.2 to 9m (4 to 29.5 ft) depending on environment and sensitivity settings
Input Voltage	9 to 16 Vdc
Current Consumption	35 mA
Alarm Output Available	Form A (N.C.) or via bus
Sensitivity Adjustment	Covers up to 9m (30 ft) when set to high, and up to 4.5m (15 ft) when set to low
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	6.6 x 9 x 2.2 cm (2.6 x 3.6 x 0.9 in.)

EVO Zone Expanders



**ZX8**  
8-Zone Expansion Module

► Features

- 8 addressable zone inputs (16 with ATZ zone doubling feature)
- 1 PGM output (50 mA PGM)
- LED module status display
- Use zone input as an anti-tamper switch input
- Set a different input speed for each zone (up to 255 minutes), ideal for temperature monitoring applications
- Selectable EOL resistors values (version 6 or higher)

► Specification

Input Voltage	12 to 16 Vdc
Current Consumption	28 mA maximum
PGM Current Limit	50 mA (ZX8SP / ZX8)
Humidity	95% maximum
Operating Temperature	-20° to 50° C (-4° to 122° F)
Dimensions	14 x 4.5 x 1.8 cm ( 5.5 x 1.8 x 0.7 in.)

CE     ANSI / SIA CP-01-2010

**ZX82**  
8-Zone Expansion Module

► Features

- Expansion of 8 additional zones
- Supports SP, MG and EVO
- 4-wire bus connection
- Status LEDs for zones, power and bus data
- Enclosure with cover lock mechanism
- On-board Tamper



► Specification

Input Voltage	9 to 16 Vdc
Current Consumption	95 mA maximum (all LED on)
Number of zones	8
Compatibility	All Paradox Control Panels
Operating Temperature	-20° to 50° C (-4° to 122° F)
Dimensions	16.5 x 10.2 x 2.5 cm ( 6.5 x 4 x 1 in.)



**ZX1**  
1-Zone Expansion Module

► Features

- 1 addressable zone input (2 with ATZ zone doubling feature)
- Input speed: 15 ms - 255 minutes
- LED module status display

► Specification

Input Voltage	9 to 16 Vdc
Current Consumption	28 mA maximum
Humidity	85% maximum
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	8 x 4.7 x 2.3 cm (3.1 x 1.9 x 0.9 in.)



EVO Zone Expanders



RTX3  
Wireless Expansion Module

- ▶ Features
  - ▶ 32 wireless addressable zones
  - ▶ Maximum number of remote controls: 999 with EVO (32 with SP)
  - ▶ Remote control compatibility:  
REM1, REM2, REM3, REM15, REM101 and RAC2 remote controls
  - ▶ Supports wireless PGMs (8 with EVO, 16 with SP Series Only)
  - ▶ Supports SR230 Wireless Sirens (SP Series only)
  - ▶ Supports all MAGELLAN transmitters
  - ▶ Supports 2 RPT1 and 8 K37 (SP Series only)
  - ▶ RF jamming supervision
  - ▶ Low battery, tamper and check-in supervision for reconnected modules
  - ▶ Transmitter signal strength display
  - ▶ 3 PGM outputs and 1 optional output
  - ▶ PMG outputs: PGM1 and PGM2 - 150mA PGM tansistor outputs  
PGM3 and PGM4 - form C relay output rated at 5A/ 28Vdc, N.O. / N.C.  
(PGM4 optional)
  - ▶ In-field firmware upgradeable via 307USB

▶ Specification

Input Voltage	9 to 16 Vdc
Current Consumption	50 mA
RF Frequency	433 MHz
Sensitivity	-120 dBm
Humidity	5 to 90%
Operating Temperature	0 to 49 °C (32 to 120 °F)
Dimensions	15 x 16 x 3 cm (6 x 6.5 x 1.1 in.)

EVO Access Control  
Control Module



ACM12  
4-Wire Access Control Module

- ▶ Features
  - ▶ Full Off-Line functionality
  - ▶ Fast x10 access processing of up to 999 users
  - ▶ In / out access control via two readers or reader and REX
  - ▶ Access with card / pin or both
  - ▶ Arm / disarm function with card / pin or both
  - ▶ RS485 reader connection up to 300m / 1000 ft
  - ▶ Force door, door left open detection / alarm
  - ▶ Firmware upgradeable
  - ▶ Easy, minimum fast programming
  - ▶ 4 (total of 8 periods) unlock schedules
  - ▶ Manual Door Unlock
  - ▶ Unlock door on Fire Alarm

▶ Specification

Input Voltage	16 Vac, 20 / 40 VA, 50-60 Hz
Auxiliary Output	12 Vdc, typical 600 mA, 1A fuseless shutdown
Battery	12 Vdc, 4 Ah minimum
Metal Box	Fits in a 20 x 25.5 x 7.6 cm (8 x 10 x 3 in.) metal box
Dimensions	14 x 9.2 x 2.5 cm (5.5 x 3.6 x 1 in.)



EVO Access Control  
Proximity Card Reader



**R910**  
4-Wire Indoor Proximity Reader

- ▶ **Features**
  - ▶ Only 4 wires (instead of 7) to connect with 4-wire access control modules
  - ▶ Adjustable red / green LED intensity and buzzer frequency
  - ▶ Tricolor LED display
  - ▶ In-field firmware upgradeable via CV4USB and BabyWare
- ▶ **Specification**

Input Voltage	11 to 14.5 Vdc
Current Consumption	Typical: 100 mA With Card: 115 mA maximum
Frequency	Exciter field at 125 kHz Pulse Modulate
Operating Temperature	-35 to 65 °C (-31 to 149 °F)
Dimensions	5.5 x 15 x 2.5 cm (2.2 x 5.9 x 1 in.)



EVO Access Control  
Card Reader & Keypad



**R915**  
4-Wire Indoor Proximity Reader with Keypad

- ▶ **Features**
  - ▶ Only 4 wires (instead of 7) to connect with 4-wire access control modules
  - ▶ Adjustable red / green LED intensity and buzzer frequency
- ▶ **Specification**

Same specifications as the R910 (see below), except for the following

Current Consumption	60 mA
Frequency	Exciter field at 125 kHz Pulse Modulate
Dimensions	14.4 x 15.2 x 2.5 cm (1.7 x 6 x 1 in.)



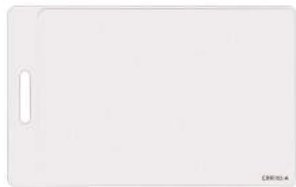
**C705**  
Translucent Proximity Key Tag

- ▶ **Features**
  - ▶ Same features as the C704 along with the following:
    - ▶ Available in a variety of colors: Blue, Red, Green and Black
    - ▶ Dimensions: 3.2 x 5.6 x 0.8 cm (1.3 x 2.2 x 0.3 in.)



**30210**  
PosiProx Proximity Key Tag

- ▶ **Features**
  - ▶ Read Range up to 6cm
  - ▶ Key hole



**30202**  
PosiProx Standard Prox Card

- ▶ **Features**
  - ▶ Convenient credit card size
  - ▶ Super-thin and flexible
  - ▶ Vertical slot for clip attachment
  - ▶ Durable PVC housing (white)
  - ▶ Passive (no battery required)



PRT3

Integration / Printer Module

- Features
  - Provides the ability to automatically print live or stored events
  - Provides an interface between an EVO control panel and a third-party peripheral system
  - Supports ASCII / C-BUS protocols
  - 16 virtual inputs to trigger an action in the EVO control panel based on an event received from the peripheral system, using ASCII or C-BUS protocol
  - 30 virtual PGMs to trigger an action in the peripheral system based on an event received from the EVO control panel, using ASCII or C-BUS protocol
  - USB port for PC connections
  - Parallel and serial port for printer connections
  - 2,048 event buffer
  - Automatically / manually prints reports of zone / system events via printer or PC
  - Available in multiple languages
  - In-field firmware upgradeable via a CV4USB

► Specification

Input Voltage	9 to 16 Vdc
Current Consumption	60 mA maximum
Parallel Port	Minimum 80 column printer
Serial Port	1 start bit, 8 data bit, no parity and 1 stop bit (8N1)
Serial Port Baud Rates	2400, 9600, 19200 or 57600 bps
Dimensions	14 x 6 x 2.5 cm (5.5 x 2.4 x 1 in.)



PGM4

4-Output Expansion Module

- Features
  - 4 programmable, 5A relay outputs
  - Activate / Deactivate PGM after event and / or timer
  - Pulse PGM output for fire alarm
  - In-field firmware upgradeable via a CV4USB or 307U

► Specification

Input Voltage	11 to 16 Vdc
Current Consumption	Typical 13 mA, 150 mA maximum (all PGMs active)
Number of Outputs	4 form C relays rated at 125V, 5A resistive load
Humidity	95% maximum
Dimensions	14 x 4.5 x 3 cm (5.5 x 1.8 x 1.2 in.)



HUB2

2-Port Hub and Bus Isolator

- Features
  - Divides the communication bus into two, completely isolated branches
    - 1 input port, 2 isolated output ports
    - Each output port provides communication to modules at a distance of up to 900m (3000 ft)

► Specification

Input Voltage	12 to 16 Vdc
Current Consumption	Typically: 24 mA Maximum: 50 mA
Distance from Panel	EVO: 18 AWG = 914m (3000 ft or 22 AWG = 305m (1000 ft) MGSP: 18 AWG or 22 AWG = 76m (250 ft)
Distance of each output	EVO: 18 AWG = 914m (3000 ft) or 22 AWG = 305 (1000 ft) MGSP: 18 AWG or 22 AWG = 76m (250 ft)
Operating Temperature	0 to 55 °C (-4 to 122 °F)
Dimensions	14 x 4.5 x 1.8 cm (5.5 x 1.8 x 0.7 in.)



PGM82

8-Output PGM Expansion Module

- Features
  - Expansion of 8 programmable outputs
  - PGM control via Insite GOLD application
  - PGM control with manual on-box switches
  - Supports SP, MG, EVO and Swan
  - Connects to control panel via 4-wire on keypad bus
  - Firmware upgradeable

► Specification

Input Voltage	11 to 16 Vdc
Current Consumption	315 mA maximum (all PGMs active)
Number of Outputs	8 form C relays
Max module current	15A total per module
Humidity	95% maximum
Dimensions	14 x 4.5 x 3 cm (5.5 x 1.8 x 1.2 in.)

## REMOTE CONTROLS



### Specification

	REM15	REM25	REM2	REM3	REM101	REM1
<b>Description</b>	4-Button Remote Control with Backlit Buttons	Hand-Held 2-Way Remote Control with Backlit Buttons	5-Button, 2-Way Remote Control with Backlit Buttons	2-Way Wireless Remote Keypad	Single Button Transmitter	Wireless 4 Button Remote with Backlit Buttons
<b>RF Frequency</b>	433 MHz	433 MHz	433 MHz	433 MHz	433 MHz	433 MHz
<b>Battery Type</b>	1 x 3V lithium battery (CR2032)	1 x 3V lithium battery (CR2032)	1 x 3V lithium battery (CR2032)	1 x 3V lithium battery (CR2032)	1 x 3V lithium battery (CR2032)	
<b>Wireless Range for Typical Residential Environment</b>	30m (100 ft) to 45m (150 ft)	30m (100 ft) to 45m (150 ft)	30m (100 ft) to 45m (150 ft)	30m (100 ft) to 45m (150 ft)	30m (100 ft) to 45m (150 ft)	30m (100 ft) to 45m (150 ft)
<b>Humidity</b>	5 to 90%	5 to 90%	5 to 90%	5 to 90%		
<b>Operating Temperature</b>	-10 to 55 °C (14 to 131 °F)	-10 to 55 °C (14 to 131 °F)	-10 to 55 °C (14 to 131 °F)	0 to 50 °C (32 to 120 °F)		
<b>Dimensions / Weight</b>	6.6 x 3.9 x 1.1 cm (2.6 x 1.5 x 0.4 in.) / 35g (1.2 oz)	3.9 x 7.2 x 1.2 cm (1.5 x 2.8 x 0.5 in.) / 40g (1.4 oz)	7.8 x 3.8 x 1.8 cm (3.1 x 1.5 x 0.7 in.) / 23.4g (0.82 oz)	8 x 3.4 x 1.4 cm (3.1 x 1.3 x 0.6 in.) / 32g (1.2 oz)		
<b>Special Features   Certification</b>	CE EN 50131 GRADE 2 EN 50130-5 CLASS II EN 45011 SYSTEM 5	CE	CE TRANSCEIVER TECHNOLOGY	STAY D CE	EN 50131 GRADE 2	EN 50131 GRADE 2

## MOTION DETECTORS - PIR

### Wireless Indoor / Outdoor



	PMD2P	PMD75	PMD85	NV35MR	NV780MR
<b>Page Reference</b>	See page 25	See page 25	See page 27	See page 27	See page 26
<b>Indoor / Outdoor</b>	Indoor	Indoor	Outdoor	Indoor / Outdoor	Indoor / Outdoor
<b>Sensor</b>	Dual Element	2x Dual Element	2x Dual Element	2x Dual Element	2x Dual Element
<b>Detection Range</b>	11 x 11m (36 x 36 ft);	11 x 11m (36 x 36 ft)	11 x 11m (36 x 36 ft)	Pet: 7.5m x 2m (25 x 7 ft) Sharp: 10 x 2m (33 x 7 ft)	2 x 3m to 12m (9.8 to 39 ft)
<b>Pet Immunity</b>	Pet Tolerance up to 18 kg (40 lb)	Up to 40 kg (90 lb)	Up to 40 kg (90 lb)	50 cm	Up to 40 kg (90 lb)
<b>Digital Detection</b>	-	▲	▲	▲	▲
<b>Auto Temperature Compensation</b>	▲	▲	▲	▲	▲
<b>Dual Edge Processing</b>	-	▲	▲	-	-
<b>Operating Temp.</b>	0 to 50 °C (32 to 122 °F)	0 to 50 °C (32 to 122 °F)	-35 to 50 °C (-31 to 122 °F)	-35 to 60° C (-31 to 140° F)	-35 to 60 °C (-31 to 140 °F)
<b>Battery Type / Life</b>	3xAAA, 2 years	3xAAA, 2 years	3xAA, 3 years	2xAA, 3 years	3xAA, 3 years
<b>Certification</b>	CE ETL Intertek EN 50131 GRADE 2 EN 50130-5 CLASS II EN 45011 SYSTEM 5	CE ETL Intertek	CE ETL Intertek	CE EN 50131 GRADE 2 EN 50131-6 CLASS IV	CE EN 50131 GRADE 2 EN 50130-5 CLASS II

▲ = included feature

## Wired Indoor / Outdoor



	DG85	NV35M	NV780MX	NVX80
Page Reference	See page 16	See page 33	See page 26	See page 17
Indoor / Outdoor	Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Sensor	2x Dual Element	2x Dual Element	4x Dual Element	8 Independent PIR Anti-Mask and Microwave sensors channels
Detection Range	11 x 11m (36 x 36 ft)	Pet: 7.5m x 2m (25 x 7 ft) Sharp: 10 x 2m (33 x 7 ft)	2 x 3m to 12m (9.8 to 39 ft)	17 x 15m (56 x 49 ft)
Pet Immunity	Up to 40 kg (90 lb)	50 cm	Up to 40 kg (90 lb)	Up to 20 kg (44 lb)
Digital Detection	▲	▲	▲	▲
Auto Temperature Compensation	▲	▲	▲	▲
Alarm Output	2x Solid State, N.C, 150 mA	2x Solid State, N.C, 150 mA	2x Solid State, N.C, 150 mA	Form C relay, N.C. and N.O., 1A 24 Vdc
Anti-Masking	-	▲	▲	▲
Dual Edge Processing	▲	-	-	▲
EVO Bus	▲	▲	▲	▲
Operating Temperature	-40 to 70 °C (-40 to 158 °F)	-35 to 60° C (-31 to 140° F)	-35 to 60 °C (-31 to 140 °F)	-25 to 70 °C (-13 to 158 °F)
Certification	 EN 50131 GRADE 2 EN 50130-5 CLASS IV EN 45011 SYSTEM 5	 EN 50131 GRADE 2 EN 50131-6 CLASS IV	 EN 50131 GRADE 2 EN 50130-5 CLASS II	 EN 50131 GRADE 3 EN 50130-5 CLASS IV EN 45011 SYSTEM 5

## Wired Indoor





	NV5	DG55+	DG65+	DG75+
Page Reference	See page 32	See page 30	See page 30	See page 31
Sensor	Dual Element	Dual Element	Quad Element	2x Dual Element
Detection Range	10m (32.8 ft)	12 x 12m (40 x 40 ft)	12 x 12m (40 x 40 ft)	11 x 11m (36 x 36 ft)
Pet Immunity	Up to 16 kg (35 lb)	-	-	Up to 40 kg (90 lb)
Digital Detection	▲	▲	▲	▲
Auto Temperature Compensation	▲	▲	▲	▲
Alarm Output	2x Solid State, N.C, 150 mA	2x Solid State, N.C, 150 mA	2x Solid State, N.C, 150 mA	2x Solid State, N.C, 150 mA
Dual Edge Processing	▲	▲	▲	▲
EVO Bus	-	-	-	-
Operating Temperature	-10 to 50 °C (14 to 122 °F)	-20 to 50 °C (-4 to 122 °F)	-20 to 50 °C (-4 to 122 °F)	-20 to 50 °C (-4 to 122 °F)
Certification	 EN 50131 GRADE 2 EN 50130-5 CLASS II EN 45011 SYSTEM 5	 EN 50131 GRADE 2 EN 50130-5 CLASS I	 EN 50131 GRADE 2 EN 50130-5 CLASS I	 EN 50131 GRADE 2 EN 50130-5 CLASS II EN 45011 SYSTEM 5

▲ = included feature

\*Compatible only with EVO Control Panels

## Wired Indoor



	525DM	DG467	DG466	476	476PET	460
<b>Page Reference</b>	See page 31	See page 14	See page 33	See page 34	See page 34	See page 17
<b>Sensor</b>	1x MW, Dual Element	Dual Element	2x Dual Element	Dual Element	Dual Element	Dual Element
<b>Detection Range</b>	12 x 12m (40 x 40 ft)	7 x 6m (24 x 20 ft) at 2.4m / 11 x 6m (35 x 20 ft) at 3.7m	Curtain 4.8m (15.7 ft) directional	10.6 x 10.6m (35 x 35 ft)	11 x 11m (35 x 35 ft) and up to 15m (50 ft) for center beams	2.1 x 1.5 cm (7 x 5 ft) - card access applications; 6.6 x 4.5m (21 x 15 ft) - security applications
<b>Pet Immunity</b>	-	-	-	-	Up to 18 kg (40 lb)	-
<b>Digital Detection</b>	▲	▲	▲	-	-	-
<b>Auto Temperature Compensation</b>	▲	▲	▲	▲	▲	▲
<b>Alarm Output</b>	Solid State, N.C. 150 mA	28 Vdc, 0.15A, N.C.	100 mA / 28 Vdc, N.C.	28 Vdc, 0.15A, N.C.	28 Vdc, 0.15A, N.C.	28 Vdc, 0.15A, N.C. or N.O.
<b>Dual Edge Processing</b>	▲	▲	-	-	-	-
<b>EVO Bus</b>	-	▲	-	-	-	-
<b>Operating Temperature</b>	-20 to 50 °C (-4 to 122 °F)	-20 to 50 °C (-4 to 122 °F)	-20 to 50 °C (-4 to 122 °F)	-20 to 50 °C (-4 to 122 °F)	-20 to 50 °C (-4 to 122 °F)	-10 to 50 °C (14 to 122 °F)
<b>Certification</b>	CE	CE	CE	CE 	CE 	-

Wireless Motion Detectors  
Indoor



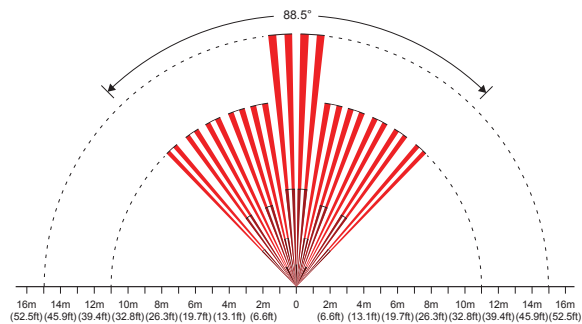
**PMD2P**  
Wireless PIR Motion Detector with Pet Tolerance

- **Features**
  - Dual element PIR sensor
  - Auto-Pulse Signal Processing\* (APSP) with Automatic Temperature Compensation
  - Dual tamper mechanism (wall / cover)
  - Can be used with SB469 Swivel-Mount Bracket

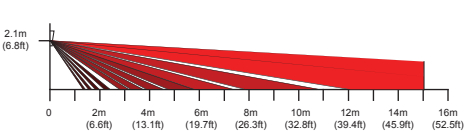
► **Specification**

Detection Range	11 x 11m (36 x 36 ft), 15m (50 ft) for center beams; 88.5°
Pet Tolerance	Up to 18 kg (40 lb)
Power	3 x AAA alkaline batteries
Battery Life	2 years
RF Frequency	433 MHz
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions / Weight	6.5 x 12.5 x 5.2 cm (2.5 x 4.9 x 2.0 in.) / 105g (3.7 oz) with batteries

Top View



Side View



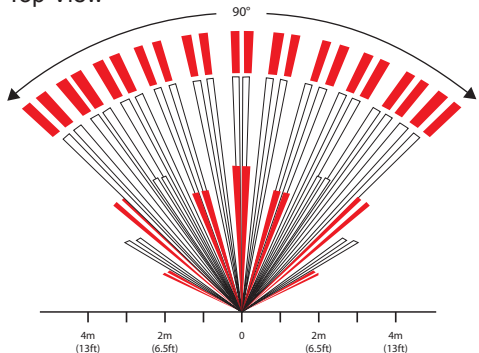
**PMD75**  
Wireless Digital Dual-Optic PIR Motion Detector with Pet Immunity

- **Features**
  - 2 x Dual-opposed element PIR sensors
  - Auto-Pulse Signal Processing\* (APSP) with Automatic Temperature Compensation
  - Anti-tamper switch
  - Digital motion detection
  - Digital Shield algorithm software, with adjustable sensitivity
  - Can be used with SB469 Swivel-Mount Bracket

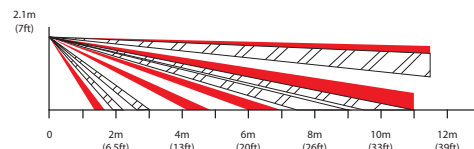
► **Specification**

Detection Range	11 x 11m (36 x 36 ft), 15m (50 ft) for center beams; 90°
Pet Immunity	Up to 40 kg (90 lbs)
Power	3 x AAA alkaline batteries
Battery Life	2 years
RF Frequency	433 MHz
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	6.6 x 12.4 x 6.1 cm (2.6 x 4.9 x 2.4 in.)

Top View



Side View



Wireless Motion Detectors  
Outdoor



**NV780MR**  
Wireless Dual Side-View Outdoor Detectors with  
Anti-Masking and Pet Immunity

- **Features**
  - Dual side anti-masking detection – Active IR detection, fast 20 seconds detection designed for outdoor detection of sprayed liquids and blocking items up to 25 cm (10 in.)
  - Pet Immunity capability, up to 40 kg (90 lb)
  - 4 dual element sensors arrangement
  - High efficiency long focal point (1.77 in.) LoDi f lens
  - Combination optics – mirror and Fresnel lens for optimal sharp detection
  - Wireless frequency selection NV780MR supports two internally selectable frequencies
  - Single or Dual operation modes
  - Optical and digital range adjustments
  - Dual LED and buzzer indicators
  - Wall-mount, with built-in level tool

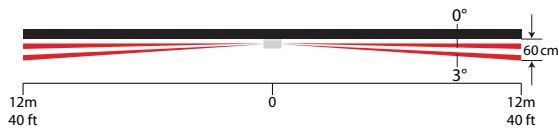
**Active IR Anti-Mask**

Paradox Anti-Masking technology, anti-masking detection regulatory requirements with enhanced range and shorter detection period resulting in superior Anti-masking detection and stable reliability. The NV780M Series recognizes objects placed close proximity up to 30 cm / 12 in. of the lens within 20 seconds detection confirmation developed for outdoor environments, detection includes hard to detect clear lacquer, aluminum foil and clear adhesive tape, as well as degradation of the lens due to dirt or dust.

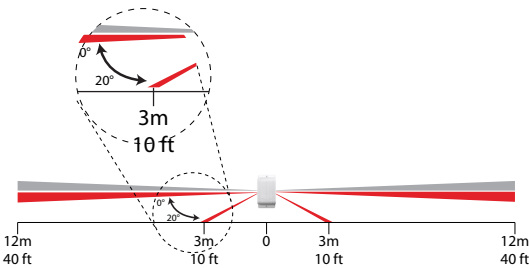
► **Specifications**

Detection Range	2 x 3m to 12m (9.8 to 39 ft) at 2.5m height
Pet Immunity	Up to 40 kg (90 lb)
Power	3x AA alkaline battery
RF Frequency	433 MHz
Battery Life	3 years
IP Rating	IP54
Operating Temperature	-35 to 50°C (-31 to 122°F)
Dimensions	21 x 11 x 7 cm (8.2 x 4.3 x 2.7 in.)

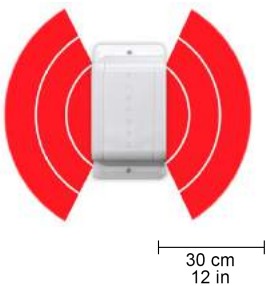
Wall (Top View)



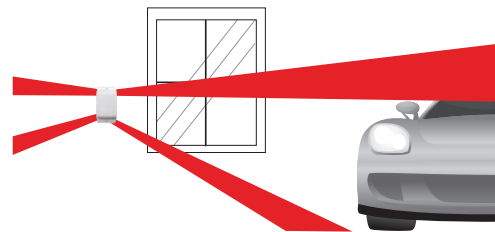
Range Adjustment



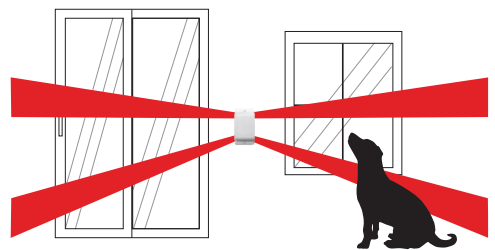
Anti-Mask Range



Range Adjust



Pet Immune





Wireless Motion Detectors  
Outdoor



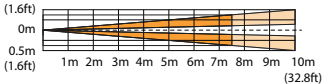
**NV35MR**  
Wireless Outdoor / Indoor Window and Sliding Door  
Dual Detector with Anti-Masking and Pet Immunity

- Features
  - Outdoor / indoor protection solution for windows and sliding doors
  - Pet Immune detection
  - Anti-masking - Active IR detection for sprayed liquids and blocking items up to 30 cm (11.8 in.)
  - Dual detectors controlled by Full Authority Digital Electronics Control (FADEC)
  - Optical pet discrimination geometry to support Super Pet Immunity
  - Dual tamper detection
  - Creep zone detection

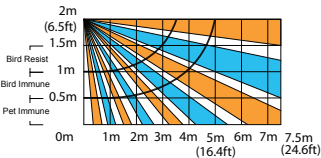
► Specification

Detection Range	Super Pet Immunity Mode: 7.5 x 2m (25 x 7 ft) Sharp Mode (Pet Immunity off): 10 x 2m (33 x 7 ft)
Pet Immunity	Pet size approximately 50 cm
Power	2 x AA Alkaline batteries
RF Frequency	433 MHz
Battery Life	Up to 3 years for typical use
IP Rating	IP54
Operating Temperature	-35 to 60° C (-31 to 140° F)
Dimensions	12.3 x 6.1 x 4.3 cm (4.8 x 2.4 x 1.7 in.)

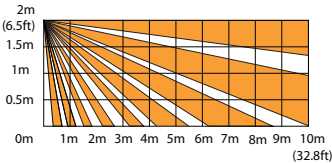
Top View



Side View (Pet Immunity Mode)



Side View (Sharp Mode Use Only)



**PMD85**  
Wireless Outdoor Digital Dual-Optic  
PIR Motion Detector

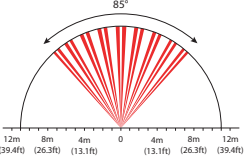
- Features
  - 2 x Dual-opposed element PIR sensors
  - Increased white light rejection for highly reliable detection
  - Dual-optical Filtering System, with UV-protected lens
  - Auto-Pulse Signal Processing\* (APSP) with temperature compensation
  - Multi-level sensitivity adjustment
  - Can be used with SB85 Heavy Duty Outdoor Swivel Bracket

► Specification

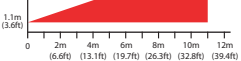
Detection Range	11 x 11m (36 ft); 90° - Pet Array
Pet Immunity	Up to 40 kg (90 lb)
Power	3 x AA alkaline batteries
RF Frequency	433 MHz
Battery Life	3 years
IP Rating	IPX4
Operating Temperature	-35 to 50 °C (-31 to 122 °F)
Dimensions	7.9 x 17.5 x 6.6 cm (3.1 x 6.9 x 2.6 in.)

Horizontal Curtain Beam

Top View



Side View



\* Patented

Wireless Perimeter Detectors  
Glass Break Detector



**G550**  
Wireless Glass Break Detector

- **Features**
  - Detects breaking of different types of glass including plated, tempered, laminated and wired
  - Wireless range: 6 meter (20 ft) radius range and 360° coverage pattern protects an entire room with one sensor
  - Factory-set sensitivity for quick and safe installation

► **Specification**

Power	3 x AAA alkaline batteries
RF Frequency	433 MHz
Battery Life	2 years
Wireless Range	20m (65 ft) with MG6250 40m (130 ft) with MG5000 / MG5050 / RTX3; in a typical residential environment
Operating Temperature	0 to 50 °C (32 to 120 °F)
Dimensions	10.9 x 7.9 x 4.3 cm (4.3 x 3.1 x 1.7 in.)

Wireless Safety Detectors



**SD360**  
Wireless Ceiling-Mount Smoke Detector (Everday)

- **Features**
  - High-sensitivity photoelectric smoke sensor
  - Built-in siren
  - Test / Hush button
  - LED operation indication

► **Specification**

Detection Type	Photoelectric Chamber
Power	3V lithium battery, Duracell or Panasonic CR123A (3 Vdc)
RF Frequency	433 MHz
Battery Life	3 years
Alarm Level / Sensitivity	1.38 to 2.36%/ft
Standby Current	25 uA
Alarm Sound Level	85 dB at 10 ft
Humidity	10 ~ 85%
Operating Temperature	0 to 49 °C (32 to 120 °F)
Dimensions	12 cm diameter x 5 cm depth (4.7 x 0.2 in.)

\* To comply with ETL / ETLc, SD360 must be installed with SP6000

\* ETL / cETL is valid for 433MHz only



Wireless Perimeter Detectors  
Door Contact



**DCT10**  
Wireless Long-Range Door Contact

- **Features**
  - 2-zone capabilities where each zone is independent and has its own serial number
    - Zone 1: One of two high-sensitivity reed switches on board (magnet included)
    - Zone 2: Universal input (N.O. / N.C.)
  - Low battery and signal transmission LED
  - Anti-tamper switch

► **Specification**

Input Response Time	45 ms
Power	4.5 Vdc (3 x AAA alkaline batteries)
RF Frequency	433 MHz
Battery Life	Up to 3 years
Wireless Range	Typical in a residential environment 30m (100 ft) with MG6250 70m (230 ft) with MG5000 / MG5050 / RTX3 / K32LX
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	12.4 x 4.5 x 3.3 cm (4.9 x 1.8 x 1.3 in.)

**DCT6**  
Wireless Door Contact

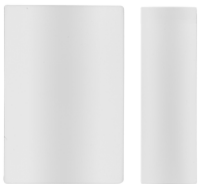


- **Features**
  - Durable long life cost effective alkaline/lithium batteries
  - Indoor range of 40 to 70 m (130 to 230 ft)
  - Powerful magnet guaranteed to operate at 10 mm (0.4 in.)

► **Specification**

Power	1 x AAA alkaline battery
RF Frequency	433 or 868 MHz on-board
Battery Life	3 years
Wireless Range	MG5000/MG5050/RTX3 : 40m (130ft) MG6250: 20m 965ft)
Dimensions	7.3 x 2.1 x 2.1 cm (2.8 x 0.8 x 0.8 in.)

**DCT2**  
Wireless Door Contact



- **Features**
  - One high-sensitivity reed switch (magnet included)
  - Anti-tamper switch
  - Built-in strip antenna (printed)

► **Specification**

Power	1 x 3V lithium battery (DL2450)
RF Frequency	433 MHz
Battery Life	Between 1 and 5 years
Wireless Range	20m (65 ft) with MG6250 40m (130 ft) with MG5000 / MG5050 / RTX3; in a typical residential environment
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	4.3 x 3 x 1.8 cm (1.7 x 1.2 x 0.7 in.)

Wired Motion Detectors

Digital Indoor



DG55+

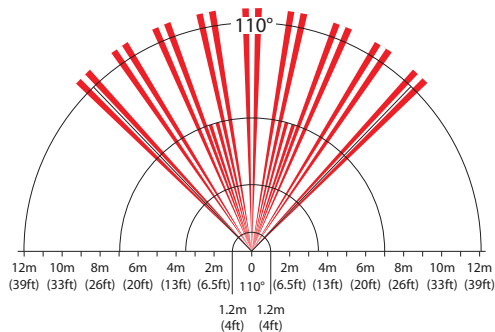
Dual Element Digital PIR Motion Detector

- Features
- Dual element PIR sensor
  - Digital motion detection
  - Auto-Pulse Signal Processing\* (APSP) and Dual Edge Processing
  - Anti-tamper switch
  - More lenses are available
  - Can be used with SB469 Swivel-Mount Bracket

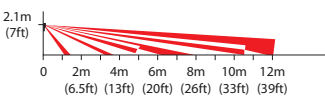
► Specification

Detection Range	12 x 12m (40 x 40 ft); 110°
Input Voltage	11 to 16 Vdc
Current Consumption	Typical: 6 mA Maximum: 15 mA
Alarm Output	Form A relay, N.C. and optional form C relay, N.C. / N.O.
Operating Temperature	5 to 40 °C (41 to 104 °F) UL / ULC Tested: 0 to 49 °C (32 to 120 °F)
Dimensions	6.6 x 9.9 x 6.1 cm (2.6 x 3.9 x 2.4 in.)

Top View



Side View



DG65+

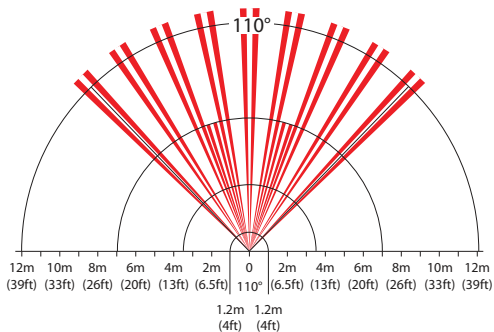
Quad Element Digital PIR Motion Detector

- Features
- Quad opposed element PIR sensors
  - Digital Dual-opposed detection
  - Interlock sensor geometry
  - Auto-Pulse Signal Processing\* (APSP) and Dual Edge Processing
  - Anti-tamper switch
  - More lenses are available
  - Can be used with SB469 Swivel-Mount Bracket

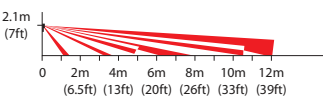
► Specification

Detection Range	12 x 12m (40 x 40 ft) at 110°
Input Voltage	11 to 16 Vdc
Current Consumption	Typical: 6 mA Maximum: 15 mA
Alarm Output	Form A relay, N.C. and optional form C relay, N.C. / N.O.
Operating Temperature	5 to 40 °C (41 to 104 °F) UL / ULC Tested: 0 to 49 °C (32 to 120 °F)
Dimensions	6.6 x 9.9 x 6.1 cm (2.6 x 3.9 x 2.4 in.)

Top View



Side View



Wired Motion Detectors

Digital Indoor



DG75+

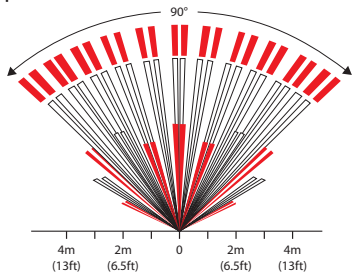
Two Dual Element Digital PIR Motion Detector with Pet Immunity

- Features
- 2 x dual opposed element PIR sensors
  - Auto-Pulse Signal Processing\* (APSP) and Dual Edge Processing
  - Anti-tamper switch
  - Can be used with SB469 Swivel-Mount Bracket

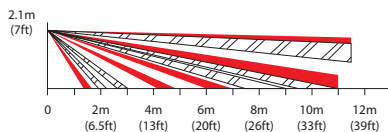
► Specification

Detection Range	11 x 11m (36 x 36 ft); 90°
Pet Immunity	Up to 40 kg (90 lb)
Input Voltage	11 to 16 Vdc
Current Consumption	Typical: 15 mA Maximum: 40 mA
Alarm Output	Form A relay, N.C. and optional Form C relay, N.C. / N.O.
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	6.6 x 12.4 x 6.1 cm (2.6 x 4.9 x 2.4 in.)

Top View



Side View



525DM

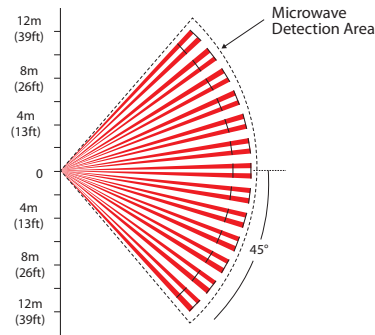
Dual Technology Digital Motion Detector with Dynamic Proximity Detection

- Features
- Microwave and dual element PIR
  - Dynamic proximity feature allows for the detection of close proximity movements (less than 0.75m / 2.5 ft) within the detector range
  - Adjustable microwave range
  - Two auto pulse settings; for typical environment (normal), or for high false alarm rejection (high)
  - Enhanced and well-balanced sensitivity adjustment
  - Installer Test Mode: allows testing of microwave and infrared detection separately
  - LED feedback displays dynamic proximity and installer test features
  - Can be used with SB469 Swivel-Mount Bracket

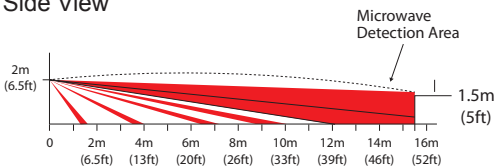
► Specification

Detection Range	12 x 12m (40 x 40 ft), 90°
Input Voltage	10 to 16 Vdc
Current Consumption	Typical: 30 mA
Microwave Frequency	10.525 GHz
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	6.6 x 12.7 x 5.6 cm (2.6 x 5 x 2.2 in.)

Top View



Side View



Wired Motion Detectors

Digital Indoor



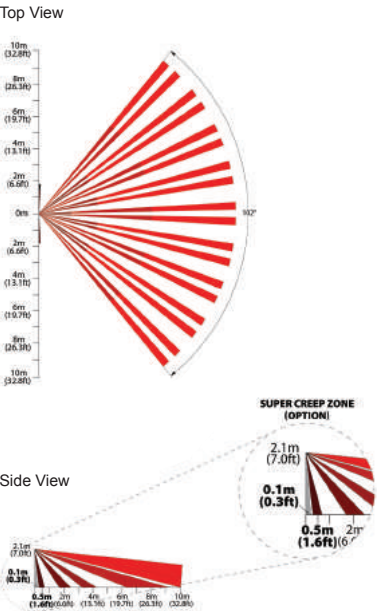
NV5

Digital PIR Motion Detector with Pet Tolerance

- Features
- Dual element PIR sensor managed by Full Authority Digital Electronics Control (FADEC)
  - Auto-Pulse Signal Processing\* (APSP) and Dual Edge Processing with settings for normal or high interference environments
  - Auto temperature compensation
  - Anti-tamper switch
  - NV5 can be used with SB100 Wall and Ceiling Bracket

► Specification

Detection Range	10 x 10m (32.8 x 32.8 ft); 102° with Creep zone
Pet Immunity	Up to 16 kg (35 lb)
Input Voltage	10 to 15 Vdc
Current Consumption	Typical: 10 mA Maximum: 11 mA
Alarm Output	Solid State, N.C.
Operating Temperature	-10 to 50 °C (14 to 122 °F)
Dimensions	9.1 x 5.5 x 4 cm (3.5 x 2.2 x 1.6 in.)



WD1

Wireless Water Detector

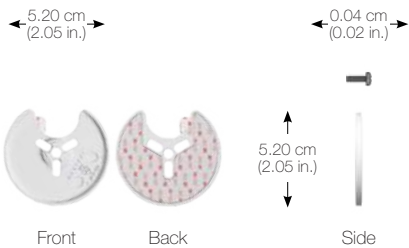
- Features
- Two-way wireless water detector
  - Tamper on bottom of main unit to notify of unintended movement (fix-mounting required)
  - 3-year battery life
  - Blue LED indicator and Piezo
  - Any pair of pins in contact with water triggers detection
  - Floor bracket with double-sided tape, no drilling required (included)

► Specification

Power	1 x AA alkaline battery
Battery Life	3 years (replace to avoid leakage)
RF Frequency	433 or 868 MHz dip switch selectable
Wireless Range	30m (100 ft)
Supervision	Check-in Supervision, Battery Low
IP Rating	IP67
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions H x W x D	8.35 x 8.87 x 2.29 cm 3.29 x 3.49 x 0.90 in.
Compliance	CE



Floor Bracket (Included)



Wired Motion Detectors  
Outdoor



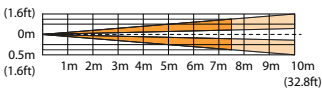
NV35M  
Outdoor / Indoor Window and Sliding Door Dual De-  
tector with Anti-Masking and Pet Immunity

- Features
- Outdoor / indoor protection solution for windows and sliding doors
  - Pet Immune detection
  - Anti-masking - Active IR detection for sprayed liquids and blocking items up to 30 cm (11.8 in.)
  - Dual detectors controlled by Full Authority Digital Electronics Control (FADEC)
  - Optical pet discrimination geometry to support Super Pet Immunity
  - Dual tamper detection
  - Creep zone detection

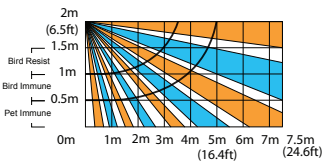
► Specification

Detection Range	Super Pet Immunity Mode: 7.5 x 2m (25 x 7 ft) Sharp Mode (Pet Immunity off): 10 x 2m (33 x 7 ft)
Pet Immunity	Pet size approximately 50 cm
Input Voltage	12 to 15 Vdc
RF Frequency	433 or 868 MHz
IP Rating	IP54
Operating Temperature	-35 to 60° C (-31 to 140° F)
Dimensions	12.3 x 6.1 x 4.3 cm (4.8 x 2.4 x 1.7 in.)

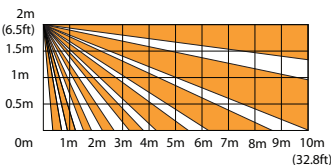
Top View



Side View (Pet Immunity Mode)



Side View (Sharp Mode Use Only)



Wired Motion Detectors  
Digital Ceiling

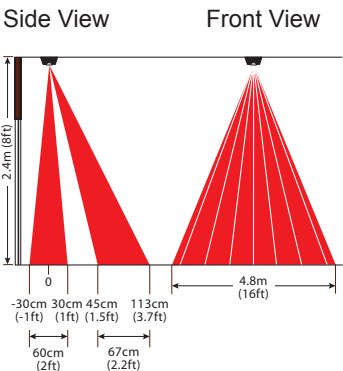


DG466  
Directional Ceiling-Mount Digital Motion Detector

- Features
- Ideal for protecting balcony and patio doors
  - Two dual element, low noise PIR sensors
  - Anti-tamper switch
  - Adjustable return delay timer (exit and re-enter without triggering an alarm)
  - Directional detection to produce an alarm when a target moves in a specific directio

► Specification

Detection Range	67 cm x 4.8m (2.2 ft x 16 ft) and 60 cm x 4.8m (2 ft x 16 ft)
Input Voltage	11 to 16 Vdc
Current Consumption	Typical: 25 mA Maximum: 35 mA
Alarm Output	Form A relay, N.C.
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	10.8 diameter x 13.5 cm depth (4.25 x 1.38 in.)



For full details on:



DG467  
360° Ceiling-Mounted Digital Motion Detector

Refer to page 14

Wired Motion Detectors

Analog



476

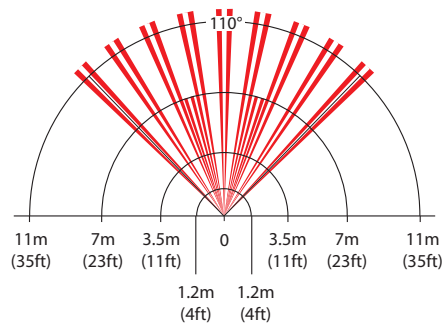
Analog Single-Optic PIR

- Features
- Dual element PIR sensor
  - Anti-tamper switch
  - Auto-Pulse Signal Processing\* (APSP)
  - Can be used with SB469 Swivel-Mount Bracket

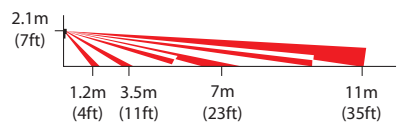
► Specification

Detection Range	10.6 x 10.6m (35 x 35 ft); 110°
Input Voltage	9 to 16 Vdc
Current Consumption	Typical: 15 mA Maximum: 31 mA
Alarm Output	Form A relay, N.C.
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	6.6 x 9.3 x 5.2 cm (2.6 x 3.7 x 2 in.)

Top View



Side View



476PET

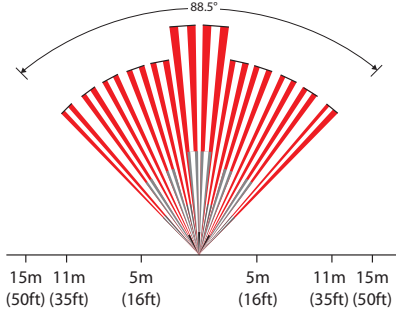
Analog Single-Optic PIR with Pet Immunity

- Features
- Dual element PIR sensors
  - Anti-tamper switch
  - Auto-Pulse Signal Processing\* (APSP)
  - Can be used with SB469 Swivel-Mount Bracket

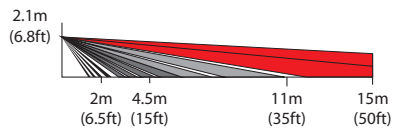
► Specification

Detection Range	11 x 11m (35 x 35 ft) and up to 15m (50 ft) for center beams; 88.5°
Pet Immunity	Up to 18 kg (40 lb)
Input Voltage	9 to 16 Vdc
Current Consumption	Typical: 15 mA Maximum: 29 mA
Alarm Output	Form A relay, N.C.
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	6.6 x 9.3 x 5.2 cm (2.6 x 3.7 x 2 in.)

Top View



Side View





Wired Special Detectors

Vibration Detector



950

Safe Protector

- Features
- High-sensitivity piezoelectric element
- 5 sensitivity settings
- 2.5m (8.2 ft) protection range
- Anti-tamper switch

► Specification

Input Voltage	10 to 16 Vdc
Current Consumption	Minimum: 12 mA Maximum: 16 mA
Diameter of Protected Surface	2.5m (8.2 ft)
Alarm Relay	28V / 150 mA
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	6.4 x 11 x 2.4 cm (2.5 x 4.3 x 0.9 in.)

Accessories

Glass Break Sensor Tester



459

Test Trek

- Features
- Produces a test tone to verify the GlassTrek's high-audio frequency detection capability
- Dimensions: 8.2 x 14.3 x 3.8 cm (3.3 x 5.6 x 1.5 in.)

Wireless Sirens



**SR230**  
Wireless Outdoor Siren with Built-in Strobe Light

- **Features**
- Built-in transceiver
  - Wireless siren (100 dBA) with integrated strobe light
  - Fast alarm response time (within 4 seconds)
  - 2.5 hour alarm display (strobe flashes every 4 seconds after bell cuts off)
  - Siren presence supervised by control panel
  - Dual tamper mechanism (wall / cover)
  - Siren test mode
  - Signal strength / RF transmission and status LEDs
  - Strobe lens available in 3 colors (red, blue and amber)
  - In-field firmware upgradeable via 307US

► **Specification**

Power Supply	3 x C alkaline batteries (4.5 Vdc)
RF Frequency	Built-in transceiver 433 MHz
Battery Life	3 years (typical use)
Wireless Range	Typical residential environment 35m (115 ft) with all-in-one consoles 70m (230 ft) with MG5000, MG5050 and RTX3
Siren	100 dBA or more
Humidity	5 to 90%
IP Rating	IP54
Operating Temperature	-25° to 55° C (-13° to 131° F)
Dimensions	13.4 x 21.17 x 5.1 cm (5.29 x 8.34 x 2.01 in.)



1	Siren (100 dB or more)
2	Tamper spacer
3	Wall Tamper switch and Cover Tamper switch)
4	Tamper Switch Connector
5	Infield Connector
6	Battery Pack
7	Strobe Lights
8	Status LED
9	Signal Strength / RF transmission LED
10	Learn Switch
11	Antenna

IP  
Internet Module



IP150+  
IP Communicator

- Features
  - Central station reporting via IPR512 or IPRS-7
  - Provides connectivity to Insite GOLD, BabyWare, NEware or InField to access your system through the internet
  - DHCP connectivity with no configuration
  - Remote firmware upgrades with a fail-safe mode
  - Sends notification and alarm system events via email
  - Internal diagnostic logs via Insite GOLD app
  - SSL support for sending secured email messages, via a secure sockets layer; a popular protocol for encrypting information over the internet Easy installation: no screws needed, a built-in clip for mounting in a metal box
  - Compatible with Spectra SP series, MG5000 / MG5050 / MG5075, and EVO control panels

► Specification

Encryption	AES 256-bit, MD5 and RC4
Input Voltage	13.8 Vdc, supplied by the panel serial port
Current Consumption	100 mA
Dimensions	10.9 x 2.7 x 2.2 cm (4.3 x 1.1 x 0.9 in.)



Cellular  
Accessories



EXTKIT  
Antenna Extensions

- Features
  - Antenna extensions are available to improve reception by moving the antenna
  - Includes wall mounting bracket
  - The following models and lengths are available:
    - EXT2: 2m (6 ft) Coaxial Cable RG174
    - EXT4: 4m (12 ft) Coaxial Cable RG174
    - EXT7: 7m (24 ft) Coaxial Cable RG58
    - EXT15: 14.5m (48 ft) Coaxial Cable RG58
    - EXT18: 18m (60 ft) Coaxial Cable RG58

Cellular



PCS265LTE  
LTE / 4G / 3G / 2G / GSM Communicator Module

- Features
  - LTE / 4G (3.75G) / 3G / 2G reporting speed of system data to IPR512
  - Monitoring Receiver or IPRS-7 IP / GPRS
  - 3G/2G auto connect if 4G not available
  - Two SIM cards support for provider redundancy
  - Control panel communication supervision
  - PMH auto connection for Insite GOLD mobile application use
  - 4-wire installation
  - Li-ion battery (optional) allows operation when panel power is lost for backup reporting
  - RS-485 connection to panel, allows up to 100m with battery charge
  - Will report panel loss in case of cut wires or loss of power
  - Encrypted communication (128-bit AES)
  - Will report panel loss in case of cut wires or loss of power
  - Compatible with EVO Series, Spectra SP Series, MG5000 and MG5050

► Specification

Power Class	Class 4 (2W at 850 / 1900 MHz) Class 2 (1W at 1800 / 1900 MHz)
Antenna Bandwidth	5 bands, wideband
Voltage Input	12 Vdc nominal
Current Consumption	60 mA standby, 300 mA maximum
Encryption	128-bit (AES)
SMS Protocol	7-bit (GSM: 3GPP TS 23.038 / GSM03.38) or 16-bit (UCS2 ISO / IEC10646)
Humidity	0 to 90%
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions / Weight	20.8 x 7.5 x 2 cm (8.2 x 2.9 x 0.8 in.)



IP  
Communication Cable



COMCABLE  
Communication Cable

- Features
  - Directly connects the IP150+ serial output to the PCS265LTE, or to the control panel's serial port

# COMPATIBILITY TABLE



Compatible with panel



Requires RTX3 (SP/EVO) / K32LX (SP)



Requires RX1 (SP) / RTX3 (SP/EVO) / K32LX (SP)

	Page	EVOHD	SP4000	SP5500	SP6000	SP7000	MG5050
<b>Keypads</b>							
TM70	04, 13	▲	▲	▲	▲	▲	▲
TM50	04, 13	▲	▲	▲	▲	▲	▲
K641+	13	▲	-	-	-	-	-
K32LX	04	-	▲	▲	▲	▲	-
K32LCD+	05	-	▲	▲	▲	▲	▲
K35	05	-	▲	▲	▲	▲	▲
K37	06	-	-	▲	▲	▲	▲
K32+	06	-	▲	▲	▲	▲	▲
K10V / K10H	07	-	▲	▲	▲	▲	▲
<b>Expanders</b>							
ZX1	18	▲	-	-	-	-	-
ZX8	18	▲	▲	▲	▲	▲	▲
ZX82	18	▲	▲	▲	▲	▲	▲
ZX8SP	08	-	▲	▲	▲	▲	▲
RTX3	19	▲	▲	▲	▲	▲	-
RX1	08	-	▲	▲	▲	▲	-
<b>Control Module</b>							
ACM12	11	▲	-	-	-	-	-
<b>Cellular / IP / Voice</b>							
IPR512		▲	▲	▲	▲	▲	▲
PCS265LTE	36	▲	▲	▲	▲	▲	▲
IP150+	36	▲	▲	▲	▲	▲	▲
<b>Card Readers</b>							
R915	19	▲	-	-	-	-	-
R910	20	▲	-	-	-	-	-
<b>Proximity Cards</b>							
C705	20	▲	-	-	-	-	-
<b>Remote Controls</b>							
REM15 / REM1	22	▲	▲	▲	▲	▲	▲
REM2 / REM25 / REM3	22	▲	-	▲	▲	▲	▲
<b>Magnetic Contacts</b>							
DCT10	28	▲	▲	▲	▲	▲	▲
DCT2	28	▲	▲	▲	▲	▲	▲
DCT6	28	▲	▲	▲	▲	▲	▲

▲ Compatible with panel

Requires RTX3 (SP/EVO) / K32LX (SP)

Requires RX1 (SP) / RTX3 (SP/EVO) / K32LX (SP)

	Page	EVOHD	SP4000	SP5500	SP6000	SP7000	MG5050
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### Security Accessories

PS817		▲	▲	▲	▲	▲	▲
307USB		▲	▲	▲	▲	▲	▲
PMC5		-	▲	▲	▲	▲	▲

### Detectors

DM50	14	▲	-	-	-	-	-
DM70	14	▲	-	-	-	-	-
NVX80	16	▲	▲	▲	▲	▲	▲
PMD2P	25	▲	▲	▲	▲	▲	▲
PMD75	25	▲	▲	▲	▲	▲	▲
PMD85	27	▲	▲	▲	▲	▲	▲
NV5	32	▲	▲	▲	▲	▲	▲
DG55+	29	▲	▲	▲	▲	▲	▲
DG65+	29	▲	▲	▲	▲	▲	▲
DG75+	30	▲	▲	▲	▲	▲	▲
DG85	16	▲	▲	▲	▲	▲	▲
525DM	30	▲	▲	▲	▲	▲	▲
DG467	14	▲	▲	▲	▲	▲	▲
DG466	32	▲	▲	▲	▲	▲	▲
476	33	▲	▲	▲	▲	▲	▲
476PET	33	▲	▲	▲	▲	▲	▲
460	17	▲	▲	▲	▲	▲	▲
DG457	17	▲	▲	▲	▲	▲	▲
G550	28	▲	▲	▲	▲	▲	▲
SD360	28	▲	▲	▲	▲	▲	▲
950	34	▲	▲	▲	▲	▲	▲
NV780MX	15	▲	▲	▲	▲	▲	▲
NV780MR	26	▲	▲	▲	▲	▲	▲
NV35MR	27	▲	▲	▲	▲	▲	▲

### Wireless Sirens

SR230	35	▲	-	▲	▲	▲	▲
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### Special Modules

PRT3	21	▲	-	-	-	-	-
HUB2	21	▲	▲	▲	▲	▲	▲
PGM4	21	▲	▲	▲	▲	▲	▲
PGM82	21	▲	▲	▲	▲	▲	▲
RPT1	08	-	-	▲	▲	▲	▲

**P**  **R**  **D O X**<sup>®</sup>  
S E C U R I T Y S Y S T E M S