

P ▲ R ▲ D O X™

2015



Paradox *Insight*™
Designed for your lifestyle

Life Enhancing Technology Solutions Since 1989

At Paradox our goal is to deliver innovative, high-quality products and solutions that enhance the lifestyle of the end user. We seek to constantly refine our products, adapt to changing technologies, and to meet the increasing demands of a mobile lifestyle.

Our focus remains on creativity and that's why every year we invest heavily into research and development. The entire product cycle is conducted in-house, starting from within our R&D department, to design and manufacturing, until the product is shipped out.

This year, Paradox's product family is complemented by its newest member, Paradox Insight™, the first and only integrated solution to offer HD video and audio monitoring with

superior security capabilities that allows users to see and hear what is going on and protect their home or business anytime, anywhere right from their smartphone. In case of a security breach, Paradox Insight™ provides HD videos with high quality audio of events for visual verification and reporting purposes.

Our products are sold to, and through, our loyal distributors in 130 countries, many of whom have been with us exclusively for over 25 years.

Since 1989, the Paradox approach is to work hand-in-hand with our distributors, suppliers and installers, in order to realize our mutual goal of bringing design-led, cutting-edge technology to the residential and commercial markets.

Yours Sincerely



Shmuel HersHKovitz
Owner and President



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COMPATIBILITY TABLE

▲ Compatible with panel

Requires RTX3 (SP/EVO) / K32LX (SP) / K641LX (EVO)

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

	Page	EVOHD	EVO192	SP4000	SP5500	SP6000	SP65	SP7000	MG5000	MG5050	MG6250
Keypads											
TM50	07, 22	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
K641+	07	▲	▲	-	-	-	-	-	-	-	-
K641LX	07	▲	▲	-	-	-	-	-	-	-	-
K641R	08	▲	▲	-	-	-	-	-	-	-	-
K656	08	▲	▲	-	-	-	-	-	-	-	-
K32LX	22	-	-	▲	▲	▲	▲	▲	-	-	-
K32LCD+	23	-	-	▲	▲	▲	▲	▲	▲	▲	-
K35	23	-	-	▲	▲	▲	▲	▲	▲	▲	-
K37	24	-	-	-	▲	▲	▲	▲	▲	▲	▲
K32RF	24	-	-	-	▲	▲	▲	▲	▲	▲	▲
K32+	25	-	-	▲	▲	▲	▲	▲	▲	▲	-
K10V / K10H	25	-	-	▲	▲	▲	▲	▲	▲	▲	-
K636	26	-	-	▲	▲	▲	▲	▲	▲	▲	-
Expanders											
ZX1	13	▲	▲	-	-	-	-	-	-	-	-
ZX4	13	▲	▲	-	-	-	-	-	-	-	-
ZX8	13	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
ZX8D	13	▲	▲	-	-	-	-	-	-	-	-
ZX8SP	26	-	-	▲	▲	▲	▲	▲	▲	▲	-
ZX16D	14	▲	▲	-	-	-	-	-	-	-	-
ZX32D	14	▲	▲	-	-	-	-	-	-	-	-
RTX3	15	▲	▲	▲	▲	▲	▲	▲	-	-	-
RX1	27	-	-	▲	▲	▲	▲	▲	-	-	-
Control Module											
ACM12	15	▲	▲	-	-	-	-	-	-	-	-
Cellular / IP / Voice											
UC300	55	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
IPR512	52	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
IPRS7	52	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
PCS250G / PCS250	53	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
IP150	54	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
VDMP3	54	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
GPRS14	31	-	-	-	-	-	-	-	-	-	▲
Card Reader & Keypad											
R885 / R885S	16	▲	▲	-	-	-	-	-	-	-	-
R915	16	▲	▲	-	-	-	-	-	-	-	-

▲ Compatible with panel

Requires RTX3 (SP/EVO) / K32LX (SP) / K641LX (EVO)

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

	Page	EVOHD	EVO192	SP4000	SP5500	SP6000	SP65	SP7000	MG5000	MG5050	MG6250
Proximity Card Reader											
R910	16	▲	▲	-	-	-	-	-	-	-	-
R870	17	▲	▲	-	-	-	-	-	-	-	-
Proximity Cards											
C702	17	▲	▲	-	-	-	-	-	-	-	-
C706	17	▲	▲	-	-	-	-	-	-	-	-
C704	17	▲	▲	-	-	-	-	-	-	-	-
C705	17	▲	▲	-	-	-	-	-	-	-	-
Remote Controls											
REM101	33	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
REM1	33	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
REM15	33	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
REM2	33	▲	▲	-	▲	▲	▲	▲	▲	▲	▲
REM3	33	▲	▲	-	▲	▲	▲	▲	▲	▲	▲
RAC1	17	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Video Verification											
HD77	04	▲	-	-	-	-	-	-	-	-	-
Magnetic Contact											
ZC1	12	▲	▲	-	-	-	-	-	-	-	-
DCT10	40	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DCT2	40	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DCTXP2	41	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Wireless Sirens											
SR130	50	-	-	-	▲	▲	▲	▲	▲	▲	▲
SR150	51	-	-	-	▲	▲	▲	▲	▲	▲	▲
Special Module											
PRT3	18	▲	▲	-	-	-	-	-	-	-	-
HUB2	18	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
PGM4	18	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
2WPGM	31	▲	▲	-	▲	▲	▲	▲	▲	▲	▲
PS17	18	▲	▲	-	-	-	-	-	-	-	-
RPT1	27	-	-	-	▲	▲	▲	▲	▲	▲	▲
Software											
Paradox Insight™ App	04	▲	-	-	-	-	-	-	-	-	-
NEware	57	▲	▲	-	-	-	-	-	-	-	-
BabyWare	57	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
iParadox App	58	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
IP Exploring Tools	58	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
InField	58	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

▲ Compatible with panel

Requires RTX3 (SP/EVO) / K32LX (SP) / K641LX (EVO)

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

	Page	EVOHD	EVO192	SP4000	SP5500	SP6000	SP65	SP7000	MG5000	MG5050	MG6250
Security Accessories											
PS817	56	▲	▲	▲	▲	▲	▲	▲	▲	▲	-
307USB	56	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
PMC5	56	-	▲	▲	▲	▲	▲	▲	▲	▲	-
Detectors											
DM50	08	▲	▲	-	-	-	-	-	-	-	-
DM60	08	▲	▲	-	-	-	-	-	-	-	-
DM70	09	▲	▲	-	-	-	-	-	-	-	-
NVX80	10	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
PMD2P	38	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
PMD75	38	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
PMD85	39	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
NVR780	39	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
NV780	10	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
NV5	43	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DG55	44	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DG65	44	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DG75	45	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DG85	11	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
525DM	45	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DG467	09	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DG466	46	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
476	46	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
476PET	47	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
460	47	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DG457	12	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
G550	40	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
GS250	41	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
WS588P	42	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
SD360	42	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
WC588P	42	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
WH588P	42	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
950	48	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

Paradox Insight™
HD Camera

New!



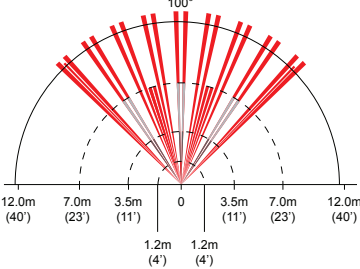
HD77
HD Video and Audio PIR Camera

- Features
 - HD video / audio alarm event verification (H.264 video and jpeg still image files)
 - Integrated video verification alarm event reporting to the CMS (IPRS-7) and end-user
 - Video on Demand (VOD), Record on Demand (ROD), Record on Motion (ROM), Record on Trigger (ROT)
 - Three second audio / video pre-alarm
 - Detection - high reliability PIR, auto pulse, auto dual edge, digital detector with a 100° beam spread
 - 1.4 mega pixel Image sensor with 1280 x 720p color HD video camera equipped with video auto gain control, white balance and auto exposure
 - LAN connection
 - EVO bus connection enables easy installation to the Paradox EVOHD control panel
 - Fully compatible with the Paradox EVOHD control panel
 - Can be used with HD77 Bracket (HDB7)

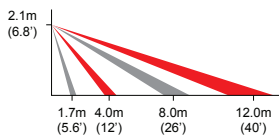
► Specifications

Image Resolution	1280 x 720p - enables identification of individuals at a distance of up to 4m (13.1 ft) in daylight and zero light
Streaming Video	360p H.264 10 FPS
Audio	16-bit, 16 kHz sampling rate, 32 Kb/s monostream
Detection Speed	0.2 to 2.5 m/s (0.6 to 11.5 ft/s)
Detection Range	12 x 12m (40 x 40 ft) / 100°
Camera Storage	12 Record on Demand videos, 2 minutes in length; 40 Record on Trigger videos, 10 seconds in length
Image Sensor Type	1.4 mega pixels, CMOS sensor
Input Voltage	9 to 16 Vdc
Current Consumption	330 mA RMS
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions	15 x 7.5 x 5 cm (6 x 3 x 2 in.)

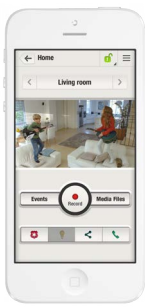
Top View



Side View



Paradox Insight™
Software



Paradox Insight™ App
Self-Monitoring Application

- Features
 - Paradox Insight™ self-monitoring app allows immediate access to the HD77 camera(s) to efficiently manage multiple secure locations (e.g., home, office, elderly parents' home). With Paradox Insight™ mobile app, users can:
 - Watch live streaming videos - unlimited time from each secured site
 - Manage the entire system from a mobile device including arm / disarm, user permissions, and media files
 - Leverage Video on Demand (VOD), Record on Demand (ROD), Record on Motion (ROM), or Record on Trigger (ROT) to view and record events at each secured location
 - Receive and respond to alarm notifications - notify police, fire department or the CMS via a panic button inside the app
 - Access system event logs to quickly verify or monitor the reason for the alarm, enabling immediate response

► System Requirements

iPhone iOS V6.0 or higher
Android V4.2 - V.4.4.4

For full details on:



EVOHD
192-Zone Control Panel
Refer to page 06

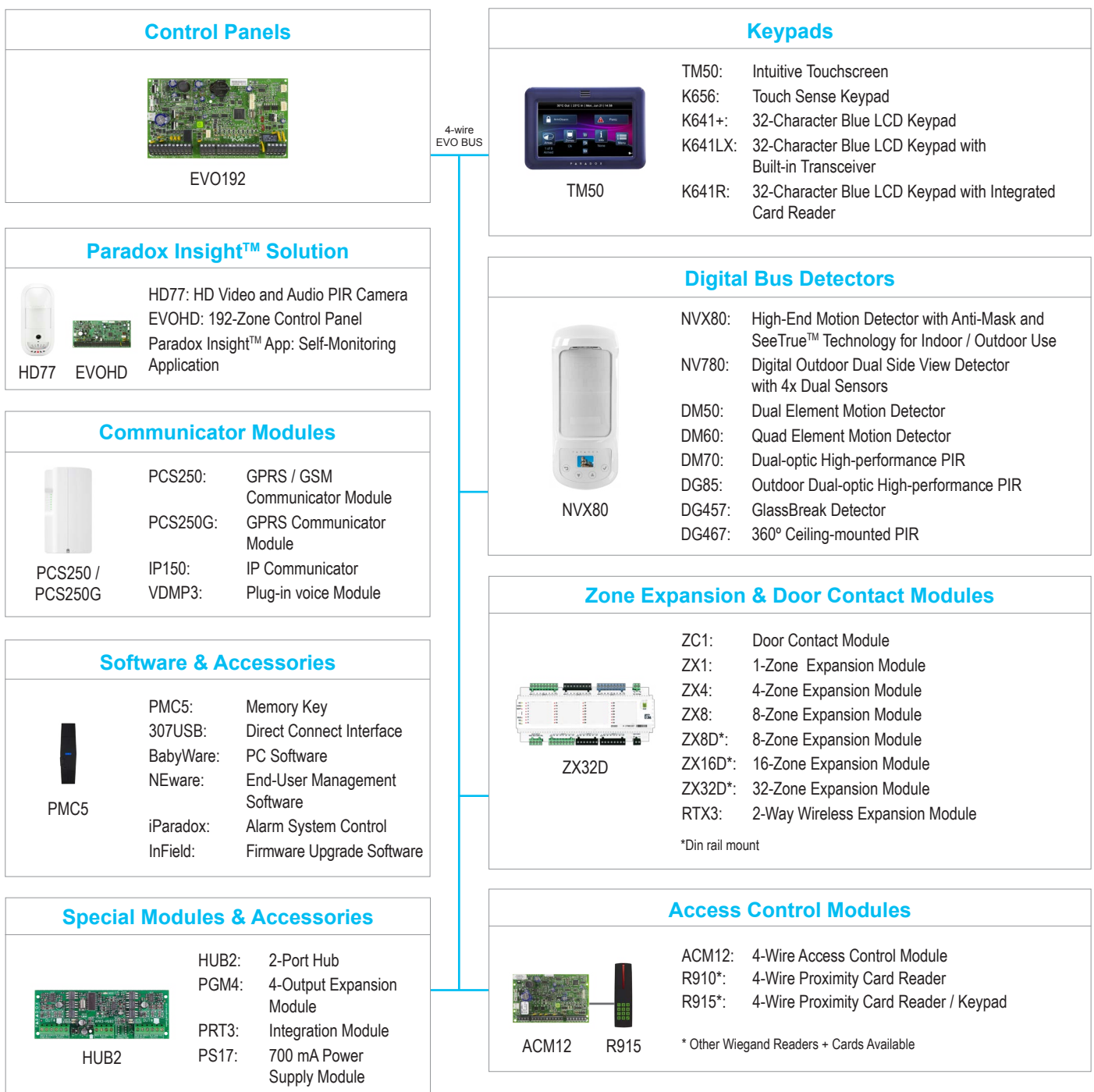
EVO systems provide the highest level of protection for banks, military and government sites, luxurious residential homes and any place where maximum security is essential. These systems are designed to be easy to use and their modular concept provides installers with work-saving features that make expanding,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



Paradox Insight™ Solution



	EVO192	EVOHD
Paradox Insight™ Solution	-	▲
Maximum Zones	192	192
On-Board Zones	8 (16 with ATZ)	8 (16 with ATZ + Tamper Input)
Partitions	8	8
Users	999	999
In-Field Firmware Upgradeable	▲	▲
Access Control	32 doors	32 doors
Events Buffered	2048	2048
PGMs	250 (5 on board)	250 (5 on board)
Siren	Wired	Wired
Total Expansion Modules	254	254
Landline Speed for Programming	300 Bps	300 / 1200 Bps

Specifications

Internal Power Supply	1.7A switching	2.5A switching
Input Voltage	16 Vac, 20 / 40 VA, 50-60 Hz	16 Vac, 40 / 75 VA, 50-60 Hz
Battery	12 Vdc, 7 Ah minimum	12 Vdc, 7 Ah minimum
Battery Charging Current	350 mA / 850 mA	Up to 1.5A
Auxiliary Output	12 Vdc, 700 mA, fuseless shutdown at 1.1A	13.8 Vdc 2A (requires a 75 VA transformer) typical sustained with fuseless shutdown at 2.5A
Bell Output	1A, fuseless shutdown at 3A	1A typical, fuseless shutdown at 3A
PGM Output	PGM1 to PGM4: 100 mA solid-state relays with +/- trigger PGM5: Form C relay output rated at 5A / 28 Vdc N.O. / N.C.	PGM1: Open collector output PGM2, 3 and 4: 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)	-10 to 55 °C (14 to 131 °F)
Metal Box	Fits in 28 x 28 x 7.6 cm (11 x 11 x 3 in.) metal box	Fits in 28 x 28 x 7.6 cm (11 x 11 x 3 in.) metal box
Dimensions	19 x 10.9 x 2.5 cm (7.5 x 4.3 x 1 in.)	20.2 x 9.6 x 4.4 cm (8 x 3.8 x 1.8 in.)
Certification / Special Feature	CE, Intertek, EN 50131 GRADE 3, EN 50130-5 CLASS II, EN 50136 AIS 2, EN 45011 SYSTEM 5, ANSI / SIA CP-01-2010	CE, EN 50131 GRADE 3, EN 50130-5 CLASS II, EN 50136 SP2, EN 45011 SYSTEM 5

▲ = included feature

EVO Keypads
Touchscreen



TM50
Wired Touchscreen Keypad

- **Features**
 - Control and display up to 192 zones in 8 partitions
 - Control up to 8 PGM outputs
 - Customizable labels (zones, partitions, users, and PGM outputs)
 - Powerful advanced processor
 - SpotOn Locator™ provides customizable graphic presentation of zone locations based on floor plans or photographs (store up to 32 floor plans personalized 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	200 mA maximum alarm
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)

EVO Keypads
LCD



K641+
Wired LCD Keypad

- **Features**
 - Control and display 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 upgradable via 307USB and InField software
 - Display time of 12 or 24 hour format

► Specifications

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.)



K641LX
Wired LCD Keypad with Integrated RF Transceiver

- **Features**
 - Same features as the K641+ along with the following:
 - RF transceiver

► Specifications

Same specifications as the K641+ except for the following:

RF Frequency	433 or 868 MHz
Current Consumption	Maximum current 120 mA
Operating Temperature	0 to 49 °C (32 to 120 °F)
Dimensions	15 x 8.5 x 2 cm (5.9 x 3.3 x 0.8 in.)

EVO Keypads
LCD



K641R

Wired LCD Keypad with Integrated Access Card Reader

► Features

- Same features as the K641+ along with the following:
- Built-in card reader; simply present access card directly to the keypad
 - Arm and disarm with an access card or code
 - Programmable automatic unlocking schedule
 - Door Left Open and Door Forced Open alarms
 - Door contact and request for exit inputs
 - Door lock output

► Specifications

Same specifications as the K641+ except for the following:

Current Consumption	140 mA maximum
Operating Temperature	0 to 49 °C (32 to 120 °F)
Dimensions	12.3 x 14.4 x 3.2 cm (4.9 x 5.7 x 1.3 in.)



K656

Touch Sense LCD Keypad

► Features

- Same features as the K641+ along with the following:
- Touch Sense keys with LED backlighting
 - 5 one-touch action buttons

► Specifications

Same specifications as the K641+ except for the following:

Input Voltage	12 to 16 Vdc
Current Consumption	70 mA maximum
Dimensions	15 x 8.5 x 2.1 cm (5.9 x 3.3 x 0.8 in.)



EVO Motion Detectors
Indoor



DM50 / DM60

Motion Detector Module

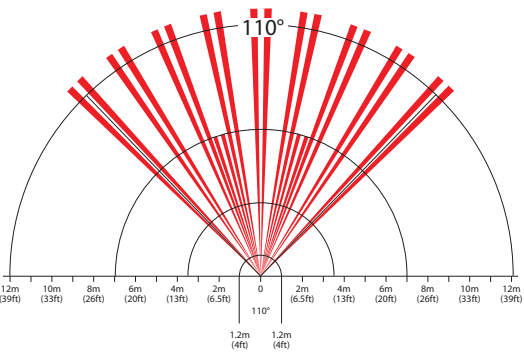
► Features

- DM50: Dual element PIR sensor
- DM60: Quad opposed element PIR sensors
- Auto-Pulse Signal Processing* (APSP)
- Anti-tamper switch
- 4-wire bus connection

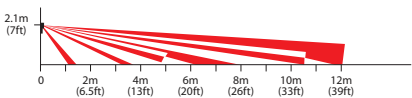
► Specifications

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.)

Top View



Side View



* Patented

EVO Motion Detectors
Indoor



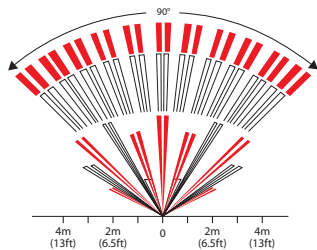
DM70
High-Security Motion Detector Module
with Pet Immunity

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

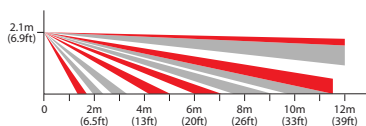
► Specifications

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.)

Top View

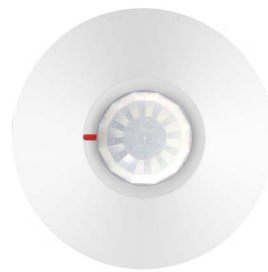


Side View



* Patented

EVO Motion Detectors
Digital Ceiling



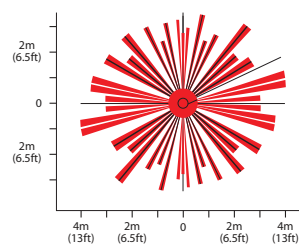
DG467
360° Ceiling-Mounted Digital Motion Detector

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

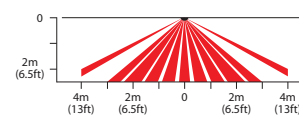
► Specifications

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.)

Top View



Side View



* Patented

EVO Motion Detectors

Outdoor



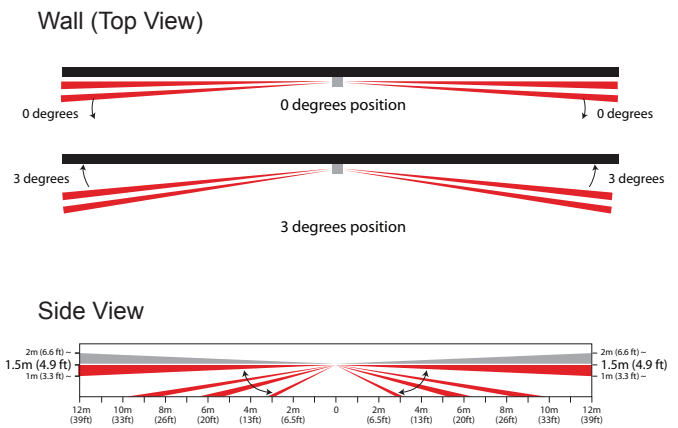
NV780

Dual Side-View Outdoor Detector

- ▶ Features
 - ▶ 4 x dual element PIR sensors with 8 narrow detection beams, managed by Full Authority Digital Electronics Control (FADEC) for reliable detection and reduced false alarms
 - ▶ Single or Dual Zone operation modes: Sends reports on single or dual zones
 - ▶ Increased white light rejection
 - ▶ Bright LED and buzzer indicator for clear adjustment feedback
 - ▶ Wall-mount with built-in level
 - ▶ Dual tamper mechanism (wall / cover)

▶ Specifications

Detection Range	Bi-directional, independent, 3 to 12m (9.8 to 39 ft) each side
Pet Immunity	Up to 40 kg (90 lb)
Input Voltage	10 to 15 Vdc
Current Consumption	Standby (Dual): 19.2 mA Standby (Single): 14.4 mA
IP Rating	IPX4
Operating Temperature	-40 to 70 °C (-40 to 158 °F)
Dimensions	9 x 5.5 x 4 cm (3.5 x 2.2 x 1.6 in.)



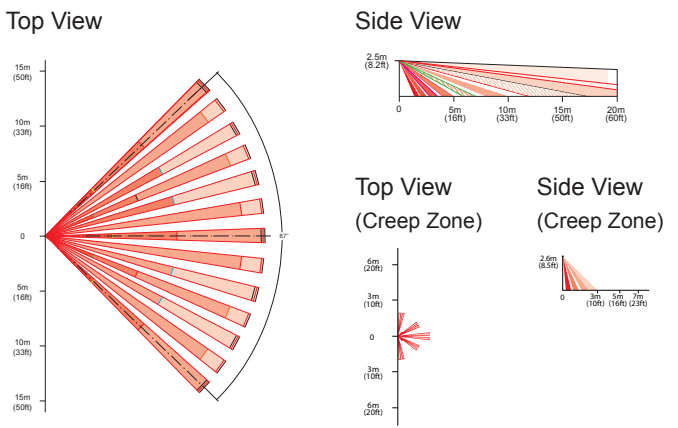
NVX80

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 unit
 - ▶ 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)

▶ Specifications

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.)



EVO Motion Detectors

Outdoor



DG85

Outdoor Digital Motion Detector with Pet Immunity

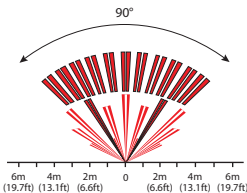
- ▶ Features
- ▶ 2 x Dual-opposed element PIR sensors
 - ▶ Increased white light rejection
 - ▶ Anti-tamper switch
 - ▶ Available with 1 of 3 lenses: Pet Array, Horizontal Curtain Beam, or Vertical Curtain Beam lens (see page 49)
 - ▶ Impact and temperature resistant casing, with UV protected lens
 - ▶ Multi-level sensitivity adjustment
 - ▶ Can be used with SB85 Heavy Duty Outdoor Swivel Bracket

▶ Specifications

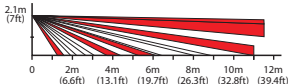
Detection Range	11 x 11m (36 x 36 ft); 90° - Pet Array
Pet Immunity	Up to 40 kg (90 lb)
Input Voltage	9 to 16 Vdc
Current Consumption	Typical: 30 mA Maximum: 40 mA
Alarm Output Available	Form A relay, N.C. and optional form C relay, N.C. / N.O.
IP Rating	IPX4
Operating Temperature	-35 to 50 °C (-31 to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

Pet Array

Top View

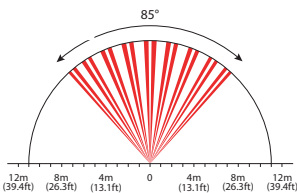


Side View

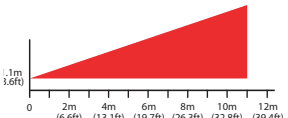


Horizontal Curtain Beam

Top View

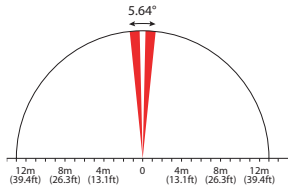


Side View

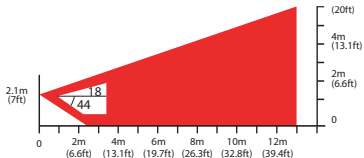


Vertical Curtain Beam

Top View



Side View



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 assessment
 - Impact and shock wave analysis
 - High-immunity to RFI and EMI signals

► Specifications

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 Magnetic Contact



ZC1

Door Contact Module to Protect Door and Windows

- Features
 - 1 addressable zone
 - On-board tamper switch
 - LED module status display
 - Power-up Indication
 - Proper Operation
 - Locate Indication
 - Bus Fault Indication

► Specifications

Input Voltage	9 to 16 Vdc
Current Consumption	14.2 mA typical
Reed Switch	Form A, (SPST) reed switch
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	Small size 7.4 x 2 x 3 cm (2.9 x 0.8 x 1.2 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)

► **Specifications**

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.)



ZX4
4-Zone Expansion Module

- **Features**
 - 4 addressable zone inputs (8 with ATZ zone doubling feature)
 - Set a different input speed for each zone (up to 255 minutes), ideal for temperature monitoring applications
 - Use zone input as an anti-tamper switch input

► **Specifications**

Input Voltage	11 to 16 Vdc
Current Consumption	28 mA maximum
Humidity	85% maximum
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	7.5 x 4.7 x 1.8 cm (3 x 1.9 x 0.7 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

► **Specifications**

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.)



ZX8D
8-Zone Expansion Module

- **Features**
 - 8 addressable zone inputs
 - LED zone status display
 - Zone LEDs turn on / off to identify assigned zone inputs
 - Verify correct wiring (no EOL, EOL without tamper, EOL with tamper)
 - Perform a walk test LED zone status display
 - Set a different input speed for each zone (up to 255 minutes), ideal for temperature monitoring applications
 - Connects to EVO bus: 4-wire encrypted 13.8 VDC communication bus
 - All programming is done through BabyWare PC Software and via an EVO keypad
 - 35 mm DIN rail enclosure with removable terminals for fast, secure, orderly and economical installation

► **Specifications**

Input Voltage	12 to 16 Vdc
Current Consumption	60 mA
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	11 x 10 x 6 cm (4.2 x 4 x 2.5 in.)



ZX16D
16-Zone Expansion Module

- **Features**
 - 16 addressable zone inputs
 - LED zone status display
 - Zone LEDs turn on / off to identify assigned zone inputs
 - Verify correct wiring (no EOL, EOL without tamper, EOL with tamper)
 - Set a different input speed for each zone (up to 255 minutes), ideal for temperature monitoring applications
 - Includes labels to identify each output
 - 35 mm DIN rail enclosure with removable terminals for fast, secure, orderly and economical installation
 - In-field firmware upgradeable

► **Specifications**

Input Voltage	12 to 16 Vdc
Current Consumption	68 mA
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	10.7 x 10.5 x 7 cm (4.2 x 4.1 x 2.8 in.)



ZX32D
32-Zone Expansion Module / 2 Amp Bus Power Supply

- **Features**
 - 32 addressable zone inputs
 - LED zone status display
 - Zone LEDs turn on / off to identify assigned zone inputs
 - Verify correct wiring (no EOL, EOL without tamper, EOL with tamper)
 - 6-LED module status display
 - Includes labels to identify each zone / input
 - Transformer sharing: modules can share a central AC supply (16-24 Vac) or DC supply (24 Vdc)
 - Set a different input speed for each zone (up to 255 minutes), ideal for temperature monitoring applications
 - Auxiliary outputs providing up to 700 mA with fuseless, shutdown at 1.1A
 - On-board button to manually activate or deactivate the auxiliary output
 - Fully supervised (AC, battery, low battery and auxiliary limit)
 - Selectable battery charge current (350 or 850 mA)
 - 35 mm DIN rail enclosure with removable terminals for fast, secure, orderly and economic installations
 - Test Mode tests each input
 - Firmware upgradeable

► **Specifications**

Input Voltage	16 to 24 Vac or 24 Vdc
Internal Power Supply	Built-in 2.85A
Current Consumption	154 mA maximum
Module Rating	13.8 Vdc Class 2
Auxiliary Output	12 Vdc, 1A maximum
Battery	12 Vdc; 4 Ah or 7 Ah
Operating Temperature	-20 to 50 °C (-4 to 122 °F)
Dimensions	21 x 10 x 6 cm (8.4 x 4 x 2.5 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, RAC1, and RAC2 remote controls
 - Supports wireless PGMs (8 with EVO, 16 with MG/SP)
 - Supports SR150 and SR130 Wireless Sirens (MG/SP Series only)
 - Supports all MAGELLAN transmitters including 2WPGM
 - Supports 2 RPT1 and 8 K32RF / K37 (MG/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
 - PGM outputs: PGM1 and PGM2 - 150mA PGM transistor outputs
 - PGM3 and PGM4 - form C relay output rated at 5A / 28Vdc, N.O. / N.C. (PGM4 optional)
 - In-field firmware upgradable

► Specifications

Input Voltage	9 to 16 Vdc
Current Consumption	50 mA
RF Frequency	433 or 868 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
 - Connections for 1 door (card reader, REX, door contact, and lock output)
 - Grant access via card and / or panel access code with R915 proximity reader
 - CMS reporting of access control events
 - Arm with card and pin with the R910 / R915
 - When using R910 or R915, requires only 4 wires between reader and ACM12
 - 8 automatic unlocking schedules
 - Door Left Open and Door Forced Open options
 - Door unlock and extended delay timers
 - Unlock door manually with button or with a PGM event
 - Unlock Door on Fire Alarm option
 - Safe Mode option (during a communication loss, the access control door connected to the module can grant access to up to 4 specified cards)
 - Transformer sharing: Use one transformer to power multiple modules that have this feature
 - Built-in, supervised, 1.5A switching power supply
 - Push-button to activate or deactivate the auxiliary output
 - Supports 4-wire and 26-bit Wiegand card readers
 - In-field firmware upgradable via CV4USB

► Specifications

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
Card Reader & Keypad



R885 / R885S
Indoor / Outdoor Proximity Reader and Keypad

- **Features**
- Extreme weather-resistant design
 - Use as a keypad, reader, or both
 - Up to 10 cm (4 in.) read range
 - R885: with use of an ISO Card
 - R885S: with use of C702 Standard Proximity Card (Clamshell)
 - Programmable face light, LEDs and buzzer
 - Panic alarm output
 - User-selectable PIN
 - Keypad lockout feature
- **Features specific to R885:**
- Reader supports 26-bit and 37-bit Wiegand
 - Keypad: 8-bit, 26-bit and 37-bit Wiegand, 4-bit with or without parity, and 4 bits buffered with or without parity
- **Features specific to R885S:**
- Indoor / Outdoor standalone proximity reader and keypad
 - Built-in relay output
 - Program access to require up to 2 cards and 2 PINS
 - 1000 users

► **Specifications**

Input Voltage	11 to 14.5 Vdc
Power Consumption	Typical: 65 mA With Card: 105 mA
Frequency	Exciter Field: 125 kHz Pulse Modulated Receive Low: 12.500 kHz Receive High: 15.625 kHz
Operating Temperature	-25 to 65 °C (-13 to 149 °F)
Dimensions	99.5 x 118.5 x 19.5 mm (5.75 x 2 x 1 in.)



R915
4-Wire Sealed Indoor / Outdoor Proximity Reader and Keypad

- **Features**
- Only 4 wires (instead of 7) to connect with 4-wire access control modules
 - Adjustable red / green LED intensity and buzzer frequency
 - Extreme weather-resistant design (injected rubber gasket and PCB cover)
 - Tricolor LED display
 - Available in 3 colors: white, silver, or black
- **Specifications**

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

Current Consumption	60 mA
Frequency	Exciter field at 125 kHz Pulse Modulated
IP Rating	IP65
Dimensions	14.4 x 15.2 x 2.5 cm (1.7 x 6 x 1 in.)



EVO Access Control
Proximity Card Reader



R910
4-Wire Indoor / Outdoor 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
 - Extreme weather-resistant design
 - Tricolor LED display
 - Also available: 910WP gang plate covers
 - In-field firmware upgradable via CV4USB and BabyWare
- **Specifications**

Input Voltage	11 to 14.5 Vdc
Current Consumption	Typical: 100 mA With Card: 115 mA maximum
Frequency	Exciter field at 125 kHz Pulse Modulated
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
Proximity Card Reader



R870
Indoor Proximity Reader

- **Features**
- Supports 26-bit Wiegand output format
 - 2 status LEDs (red and green) and a built-in beeper
 - For single gang box use
 - Screw terminals
 - Available in black
 - Material: UV resistant, ABS plastic

► **Specifications**

Input Voltage	11 to 14.5 Vdc
Power Consumption	Typical: 39 mA With Card: 62 mA
Power	Typical: 487 mW at 12.5 Vdc
Frequency	Exciter Field at 125 kHz Pulse Modulated
Operating Temperature	10 to 65 °C (50 to 149 °F)
Dimensions	11 x 7.3 x 2 cm (4.5 x 2.8 x 0.8 in.)

EVO Access Control
Remote Controls with Integrated Access Card



RAC1
Remote Control with Integrated Access Card

- **Features**
- Perform up to 5 different system actions
 - Built-in access card; present remote control to a reader like an access card
 - Water resistant, clear blue plastic with back-light for buttons

► **Specifications**

RF Frequency	433 or 868 MHz
Battery Type	3V lithium battery (CR2032)
Wireless Range	Typical residential environment 60m (200 ft) with RTX3 (EVO) 30m (100 ft) with MG6250 45m (150 ft) with MG5000 / MG5050
Operating Temperature	0 to 50 °C (32 to 120 °F)
Humidity	5 to 90%
Dimensions / Weight	6 x 4.3 x 2 cm (2.3 x 1.7 x 0.8 in.) / 30g (1.06 oz)

EVO Access Control
Proximity Cards



C702
Standard Proximity Card

- **Features**
- Convenient credit card size
 - Super-thin and flexible
 - Durable PVC housing (white)
 - Passive (no battery required)
 - Dimensions: 8.6 x 5.4 x 0.2 cm (3.4 x 2.1 x 0.08 in.)

► **Feature specific to C702**

- Vertical slot for clip attachment

► **Features specific to C706**

- Can have vertical or horizontal punch slot
- Suitable for dye-sublimation printing of images, photos, and text

EVO Access Control
Proximity Key Tags



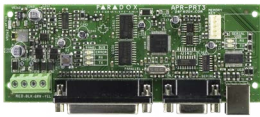
C704
Blue Proximity Key Tag

- **Features**
- Attaches conveniently to a key ring
 - Durable clear blue plastic housing
 - Passive (no battery required)
 - Dimensions: 3.5 x 3.8 x 0.5 cm (1.4 x 1.5 x 0.5 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.)



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 upgradable via a CV4USB

► Specifications

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.)



PS17

Power Supply Module

- Features
 - 1.7A switching power supply
 - Fully supervised (AC, battery, low battery and auxiliary limit)
 - Selectable battery charge current (350mA/850mA)

► Specifications

AC Power Input	16 Vac 20 / 40 VA, 50-60 Hz
Auxiliary Output	12 Vdc 600 mA typical, 700 mA maximum
Battery	12 Vdc Minimum: 4 Ah (Lead Acid or Gel Cell)
Number of Outputs	1 form C relay rated at 125V, 5A receptive load
Humidity Control Panel	85%
Dimensions	14 x 7.5 x 3 cm (5.5 x 3 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)

► Specifications

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.)



PGM4

4-Output Expansion Module

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

► Specifications

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.)

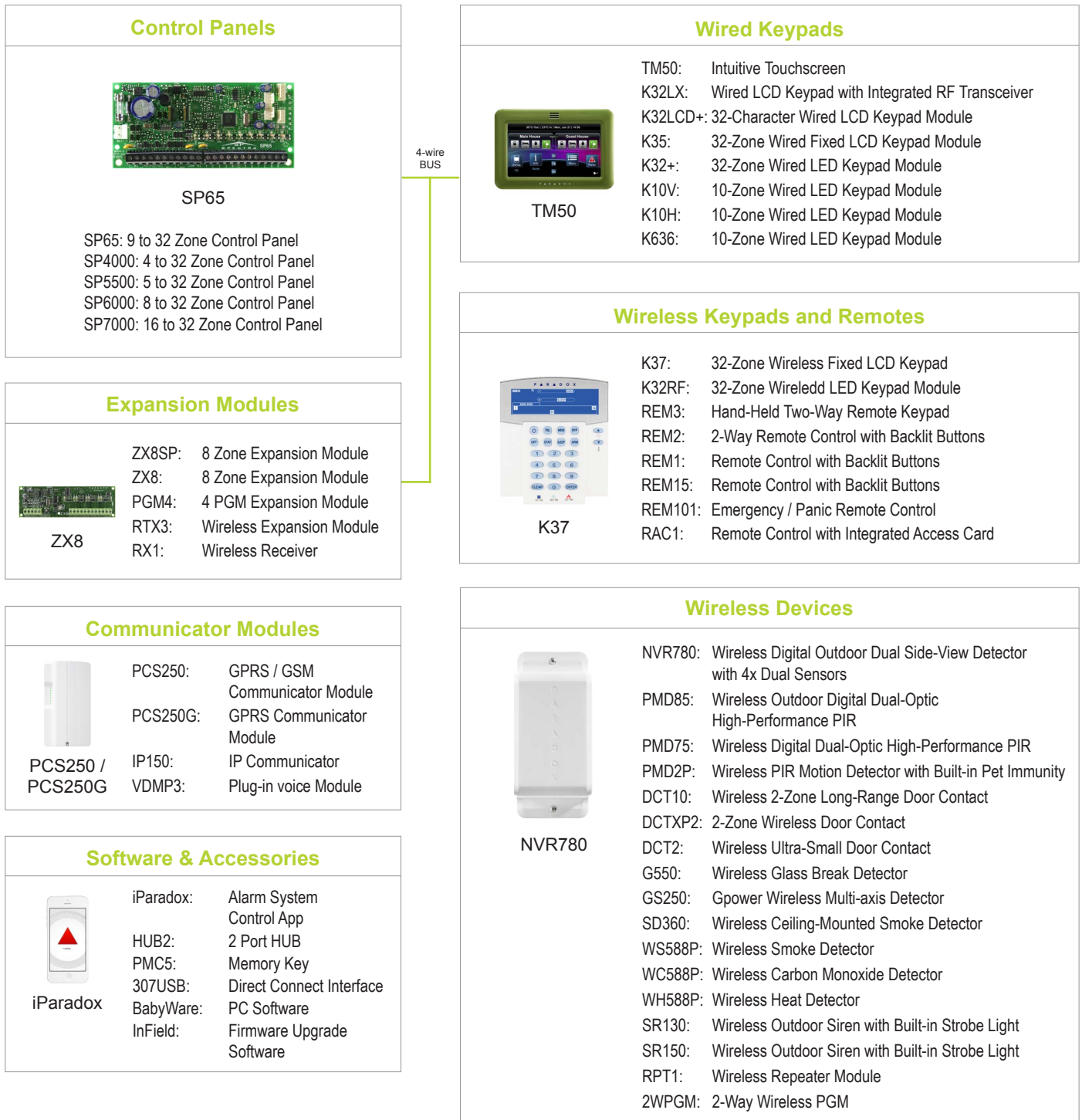


SPECTRA combines innovative features with an advanced communication bus for a unique expandable security system. Through its communication bus, SPECTRA can be expanded via wireless and wired expansion modules and a variety of accessory modules. With its reliable communication technology, flexible expansion and great-looking keypads, SPECTRA is an ideal security system for any residential or commercial installations that require 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), Plug-In Voice Dialer (VDMP3) 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, 4 Ah / 7 Ah	12 Vdc, 4 Ah / 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	<div> <div>STAY D™</div> <div>CE</div> </div>	<div> <div>CE</div> <div>EN 50131 GRADE 2</div> <div>EN 50130-5 CLASS 1</div> <div>EN 50136 AIS 2</div> <div>EN 45011 SYSTEM 5</div> </div>

▲ = included feature

*any of which can be wireless **optional

SPECTRA

Control Panels Comparison



Features

	SP6000	SP65	SP7000
StayD™	▲	▲	▲
Maximum Zones*	32	32	32
On-board Zones	8 (16 with ATZ)	9 (18 with ATZ)	16 (32 with ATZ)
Expansion Zones	24	24	16
Keypad Zones	15	15	15
Partitions	2	2	2
User Codes	32	32	32
PGMs	16* (2+2** on-board)	16* (3 on-board)	16* (4 on-board)
PGM +/- Trigger	▲	▲ (via BabyWare)	▲
Siren	Wired / Wireless with RTX3	Wired / Wireless with RTX3	Wired / Wireless with RTX3
Alarm Relay	1**	-	1
Event Buffer	256	256	256
Wireless Expansion	▲	▲	▲
2-Wire Smoke Detector Input	▲	-	▲
GPRS / GSM Module (PCS Series)	▲	▲	▲
Compatible with IP150	▲	▲	▲
Compatible with VDMP3	▲	▲ (via PCS250)	▲
Patented 2 Opto Coupler Dialer Circuit	▲	-	▲
In-Field Firmware Upgradeable	▲	▲	▲

Specifications

Power Supply	1.5A switching	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)	16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)
Battery	12 Vdc, 4Ah / 7Ah	12 Vdc, 4Ah / 7Ah	12 Vdc, 4Ah / 7Ah
Battery Charging Current	350 or 700 mA	Limited by 1.1A supply current (AUX consumption - no dedicated battery current limit circuit)	350 or 700 mA
Auxiliary Current	700 mA maximum, fuseless shutdown at 1.1A	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)	1A (fuseless shutdown at 3A)
PGM Output	2 x 100 mA Solid state and 2 x 100 mA Open Collector (+/- trigger)	3 on-board PGMs (all +/- 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)	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	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.)	6.6 x 14 x 2.5 cm (2.6 x 5.5 x 1 in.)	10.8 x 20.3 x 2.5 cm (4.3 x 8 x 1 in.)
Special Feature Certification	    		

▲ = included feature

*any of which can be wireless **optional

SPECTRA Keypads
Touchscreen



TM50
Wired Touchscreen Keypad

- Features
 - Controls and displays up to 32 zones in 2 partitions
 - Controls up to 8 PGM outputs
 - Customizable labels (zones, partitions, users, and PGM outputs)
 - Powerful advanced processor
 - SpotOn Locator™ provides customizable graphic presentation of zone locations based on floor plans or photographs (store up to 32 floor plans personalized 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



K32LX
Wired LCD Keypad with Integrated RF Transceiver

- Features
 - Controls and displays up to 32 zones in 2 partitions
 - 8 one-touch action buttons
 - 3 keypad-activated panic alarms
 - Provides access point for wireless transmitters
 - 32-character, blue LCD with programmable labels
 - StayD™ status LED
 - Independently-set chime zones
 - Adjustable key backlight, contrast, and scroll speed
 - Multilingual display
 - In-field firmware upgradable via 307USB

► Specifications

Input Voltage	12 to 14 Vdc
RF Frequency	433 or 868 MHz
Current Consumption	Typical: 70 mA Maximum: 120 mA
Wireless Range	Typical residential environment 40m (130 ft)
PGM Output	1 (follows arm status)
Keypad Zone Input	1
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



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 upgradable via 307USB

► **Specifications**

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 upgrade via 307USB

► **Specifications**

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 upgrade via 307USB

► **Specifications**

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



K32RF
Wireless LED Keypad Module

- **Features**
 - Controls and displays up to 32 zones and 2 partitions
 - 8 one-touch action buttons
 - 3 keypad-activated panic alarms
 - StayD™ Status LED
 - Separate Arm, Sleep, Stay, and Off LEDs per partition
 - Adjustable key backlight
 - Available in multiple languages
 - In-field firmware upgradeable via 307USB

► **Specifications**

Input Voltage	Primary Power: 6 Vdc (300 mA) Backup Power: 3.7 Vdc Li-ion rechargeable
RF Frequency	433 or 868 MHz
Battery Life	Up to 48 hours
Wireless Range	40m (130 ft) typical in residential environment
Connections	4-wire expansion bus
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	12.2 x 14.7 x 3.4 cm (4.8 x 5.8 x 1.3 in.)

SPECTRA Keypads
LED



K32+
Wired LED Keypad

- Features
 - Controls and displays up to 32 zones in 2 partitions
 - 7 one-touch action buttons
 - 3 keypad-activated panic alarms
 - StayD™ mode
 - Independently-set chime zones
 - Separate Arm, Sleep, Stay, and Off LEDs per partition
 - Available in multiple languages
 - In-field firmware upgradable via 307USB

► Specifications

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.)

K10V / K10H
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

► Specifications

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 Keypads
LED



K636
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

► Specifications

Input Voltage	12 to 14 Vdc
Current Consumption	Minimum: 15mA Maximum: 30mA
PGM Output	1 (follows arm status)
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	14.3 x 7.8 x 2.3 cm (5.6 x 3.1 x 0.9 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.)

For full details on:

 ZX8 8-Zone Expansion Module Refer to page 13	 HUB2 2-Port Hub and Bus Isolator Refer to page 18
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SPECTRA Zone Expanders



RX1
Wireless Receiver

- **Features**
 - Controls up to 32 wireless zones
 - Controls up to a maximum of 32 remote controls
 - Compatible with remotes REM101, REM1, RAC1, and REM15
 - Compatible with transmitters DCT10, DCTXP2, DCT2, PMD2P, PMD75, PMD85, SD360, NVR780, GS250, G550, WS588P, WH588P, and WC588P
 - RF jamming supervision
 - Low battery, tamper, and check-in supervision for transmitters
 - Transmitter signal strength display
 - 2 PGM outputs
 - In-field firmware upgradable

► **Specifications**

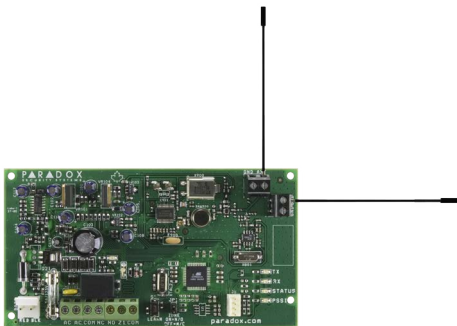
Input Voltage	12 Vdc
RF Frequency	433 or 868 MHz
Current Consumption	25 mA
Sensitivity	-110 dBm (433 MHz) or -106 dBm (868 MHz)
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	5.1 x 8.3 x 2 cm (2 x 3.25 x 0.78 in.) not including antenna

For full details on:



RTX3
Wireless Expansion Module
Refer to page 15

SPECTRA Special Modules



RPT1
Wireless Repeater Module

- **Features**
 - Extends the range of wireless communications
 - Built-in transceiver
 - Supports all MAGELLAN transmitters (including two-way)
 - Select which zone, PGM and / or keypad signals are repeated
 - Signal strength display
 - RF jamming supervision
 - Fully supervised by panel or console
 - 1 programmable 5A relay output
 - Universal input (N.O. / N.C.)
 - In-field firmware upgrade via 307USB

► **Specification**

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 18

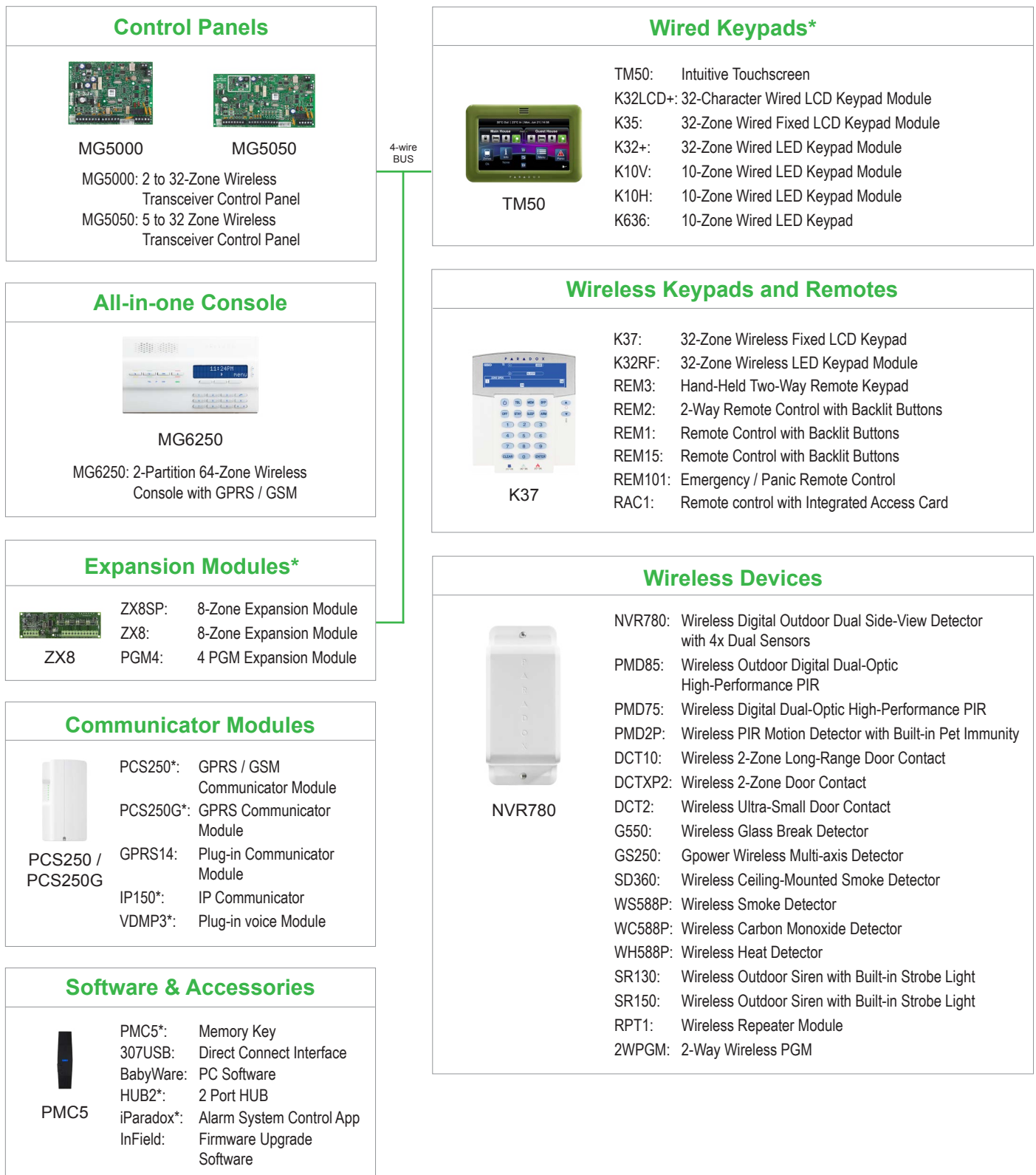


Our MAGELLAN two-way wireless security systems offers you a combination of security, wireless convenience, easy installation and attractive consumer features for any residential or small commercial installation.

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

Features



	MG5000	MG5050	MG6250 All-in-one Wireless Console with GPRS / GSM
Built-In Transceiver	▲	▲	▲
Supported Zones*	32, 2 on-board (4 with ATZ)	32, 5 on-board (10 with ATZ)	64, 2 on-board (I/O)
Keypad Zones	15	15	-
Partitions	2	2	2
Users / Remote Controls	32	32	16
PGMs	16* maximum (2 on-board)	16* maximum (4 on-board)	8* maximum (2 on-board I/O)
Events Buffered	256	256	256
Wireless Repeaters	2	2	4
Siren	Wired / Wireless	Wired / Wireless	Built-in 90 db siren / Wireless
Wireless Sirens	4 (SR130 / SR150)	4 (SR130 / SR150)	4 (SR130 / SR150)
Wireless Keypads	4 (K32RF / K37)	4 (K32RF / K37)	4 (K32RF / K37)
Expansion Bus	▲	▲	-
GPRS / GSM Module (PCS Series)	▲	▲	▲ (plug-in)
Internet Module (IP150)	▲	▲	-
Voice and Utility Reporting & User Menus	VDMP3	VDMP3	Built-in
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

Specifications

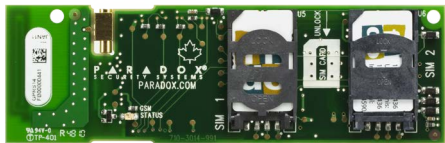


	MG5000	MG5050	MG6250
Input Voltage	16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)	16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)	7.5 Vdc (PA7 Power Adapter Plug)
Auxiliary Current	700 mA maximum, fuseless shutdown at 1.1A	700 mA maximum, fuseless shutdown at 1.1A	-
RF Frequency	433 or 868 MHz	433 or 868 MHz	433 or 868 MHz
Battery	12 Vdc, 4Ah / 7Ah	12 Vdc, 4Ah / 7Ah	Pack: 4.8V NiMH, rechargeable
Battery Charging Current	350 mA or 700 mA	350 mA or 700 mA	-
PGM Output	2 x 100 mA Open-Collector	3 x 100 mA Open-Collector and 1 x 100 mA Solid State	2 x 50 mA Open-Collector
Bell Output	1A (fuseless shutdown at 3A)	1A (fuseless shutdown at 3A)	
Operating Temperature	0 to 50 °C (32 to 122 °F)	0 to 50 °C (32 to 122 °F)	0 to 40 °C (32 to 104 °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.)	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	14 x 10.4 x 3 cm (5.5 x 4.1 x 1.2 in.)	19 x 10 x 3 cm (7.5 x 4 x 1.2 in.)	24.6 x 14 x 3.9 cm (9.7 x 5.5 x 1.5 in.)
Special Feature Certification		 EN 50131 GRADE 2 EN 50130-5 CLASS II EN 50136 ATS 2 EN 45011 SYSTEM 5	 EN 50131 GRADE 2 EN 50130-5 CLASS II EN 50136 ATS 5 EN 45011 SYSTEM 5

For full details on:

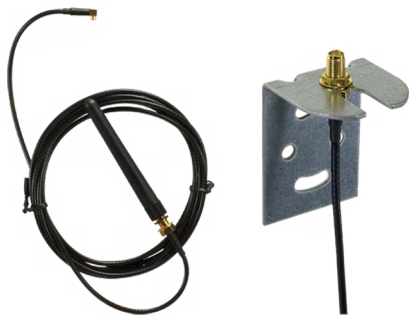
 PGM4 4-Output Expansion Module Refer to page 18	 K35 Wired Fixed LCD Keypad Refer to page 23	 K636 Wired LED Keypad Refer to page 26
 HUB2 2-Port Hub and Bus Isolator Refer to page 18	 K32RF Wireless LED Keypad Module Refer to page 24	 ZX8SP 8-Zone Expansion Module Refer to page 26
 ZX8 8-Zone Expansion Module Refer to page 13	 K37 Wireless Fixed LCD Keypad Refer to page 24	 RPT1 Wireless Repeater Module Refer to page 27
 TM50 Wired Touchscreen Keypad Refer to page 22	 K10V / K10H Wired LED Keypad Refer to page 25	
 K32LCD+ Wired LCD Keypad Refer to page 23	 K32+ Wired LED Keypad Refer to page 25	

MAGELLAN All-in-One Console
Communicator Module



GPRS14
Plug-In Communicator Module

- **Features**
 - Accessory for the MG6250, used to support GPRS / GSM / SMS reporting
 - Supports 2 standard cellular provider SIM cards, for provider redundancy
 - Simple installation; connects directly onto PCB
 - Dimensions: 11 x 3.5 x 1.5 cm (4.3 x 1.4 x 0.6 in.)



ANTKIT
Antenna Extension for GPRS14

- **Features**
 - Improves reception by extending the GPRS14 antenna
 - Includes wall-mounting bracket
 - Length: 2m / 6 ft

MAGELLAN Special Modules



2WPGM
2-Way Wireless PGM

- **Features**
 - 1 programmable, 5A relay output
 - Activation events
 - Activate / Deactivate PGM after event or timer
 - Backup Alarm Reporting option (activates PGM output if communication between the MAGELLAN console and the 2WPGM is lost)
 - Built-in transceiver
 - Universal input (N.O. / N.C.)
 - Anti-tamper switch
 - Can be powered by the PA12

► **Specifications**

Input Voltage	6 to 16.5 Vac or 5 to 20 Vdc
RF Frequency	433 or 868 MHz
Wireless Range	Typical residential environment 35m (115 ft) with MG6250 70m (230 ft) with MG5000 / MG5050 and RTX3
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	12.5 x 4.6 x 2.5 cm (4.9 x 1.8 x 1.0 in.)



MAGELLAN Power Adapters



PA6
6 Vdc Power Adapter Plug

- **Features**
- For use with K32RF
- Provides 6 Vdc at 350 mA maximum
- Includes 1 of 5 different power outlets
- Dimensions: 4 x 8 x 7 cm (1.6 x 3.1 x 2.8 in.)



PA7
7.5 Vdc Power Adapter Plug

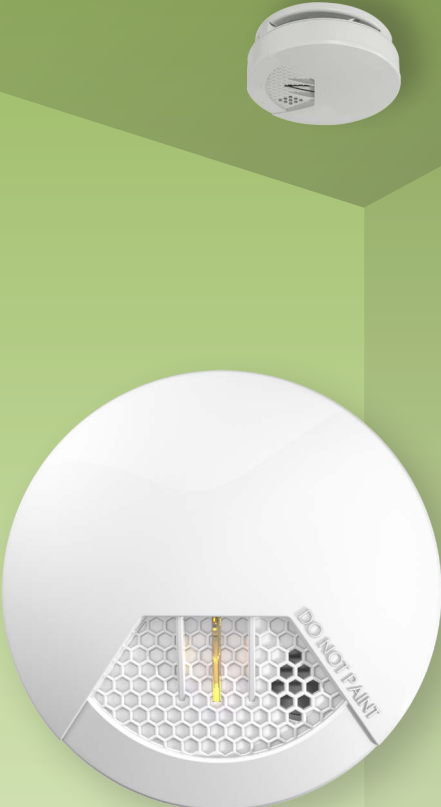
- **Features**
- For use with MG6250
- Provides 7.5 Vdc at 1A max
- Includes 1 of 5 different power outlets
- Dimensions: 4 x 8 x 7 cm (1.6 x 3.1 x 2.8 in.)



PA12
13.8 Vdc Power Adapter Plug

- **Features**
- For use with 2WPGM
- Provides 13.8 DC at 1A max
- Includes 1 of 5 different power outlets
- Dimensions: 4.3 x 7 x 5.1 cm (1.7 x 2.8 x 2 in.)







SD360

***NEW* Wireless Ceiling-Mounted Smoke Detector**

Now available with
ETL/ETLc




















Intertek

REMOTE CONTROLS

Remote Controls Comparison

Specifications



	REM1	REM101	REM15	REM2	REM3
Description	4-Button Remote Control with Backlit Buttons	Emergency / Panic Remote Control	4-Button Remote Control with Backlit Buttons	5-Button, 2-Way Remote Control with Backlit Buttons	Hand-Held 2-Way Remote Keypad
RF Frequency	433 or 868 MHz	433 or 868 MHz	433 or 868 MHz	433 or 868 MHz	433 or 868 MHz
Battery Type	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)
Wireless Range for Typical Residential Environment	30m (100 ft) with MG6250 45m (150 ft) with MG5000 / MG5050 60m (200 ft) with RTX3	30m (100 ft) with MG6250 / RX1 45m (150 ft) with MG5000 / MG5050 / RTX3 / K641LX / K32LX	30m (100 ft) with MG6250 / RX1 45m (150 ft) with MG5000 / MG5050 / RTX3 / K641LX / K32LX	30m (100 ft) with MG6250 / RX1 45m (150 ft) with MG5000 / MG5050 / RTX3 / K641LX / K32LX	30m (100 ft) with MG6250 / RX1 45m (150 ft) with MG5000 / MG5050 / RTX3 / K641LX / K32LX
Humidity	5 to 90%	5 to 90%	5 to 90%	5 to 90%	5 to 90%
Operating Temperature	-10 to 55 °C (14 to 131 °F)	-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)
Dimensions / Weight	6 x 4.3 x 2 cm (2.3 x 1.7 x 0.8 in.) / 30g (1.05 oz)	5.1 x 3.2 x 1.3 cm (2.0 x 1.2 x 0.5 in.) / 16g (0.5 oz)	6.6 x 3.9 x 1.1 cm (2.6 x 1.5 x 0.4 in.) / 35g (1.2 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)
Special Features Certification	   	   	   	 	  














MOTION DETECTORS

Motion Detectors

PIR Motion Detectors Comparison

Wireless Indoor / Outdoor



	PMD2P	PMD75	PMD85	NVR780 (Curtain)
Page Reference	See page 38	See page 38	See page 39	See page 39
Indoor / Outdoor	Indoor	Indoor	Outdoor	Outdoor
Sensor	Dual Element	2x Dual Opposed Element	2x Dual Opposed Element	4x Dual Opposed Element
Detection Range	88.5° - 11 x 11m (36 x 36 ft); Center beams: 15m (49 ft)	90° - 11 x 11m (36 x 36 ft)	90° - 11 x 11m (36 x 36 ft)	Bi-directional, independent, 2 x 3 to 12m (9.8 to 39 ft)
Pet Immunity	Pet Tolerance up to 18 kg (40 lb)	Up to 40 kg (90 lb)	Up to 40 kg (90 lb)	Up to 40 kg (90 lb)
Digital Detection	-	▲	▲	▲
Auto Temperature Compensation	▲	▲	▲	▲
Dual Edge Processing	-	▲	▲	-
Operating Temp.	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 50 °C (-31 to 122 °F)
Battery Type / Life	3xAAA, 2 years	3xAAA, 2 years	3xAA, 3 years	3xAA, 3 years
Certification	    	 	 	   

▲ = included feature

Motion Detectors

PIR Motion Detectors Comparison

Wired




















Indoor / Outdoor



	DG85	NV780 (Curtain)	NVX80
Page Reference	See page 11	See page 10	See page 10
Indoor / Outdoor	Outdoor	Outdoor	Indoor / Outdoor
Sensor	2x Dual Element	4x Dual Opposed Element	8 Independent PIR Anti-Mask and Microwave sensors channels
Detection Range	90° - 11 x 11m (36 x 36 ft)	Bi-directional, independent, 2 x 3 to 12m (9.8 to 39 ft)	90° - 17 x 15m (56 x 49 ft) with creep zone
Pet Immunity	Up to 40 kg (90 lb)	Up to 40 kg (90 lb)	Up to 20 kg (44 lb)
Digital Detection	▲	▲	▲
Auto Temperature Compensation	▲	▲	▲
Alarm Output	DG85 = Form A relay 100 mA / 28 Vdc, N.C. DG85C = Form C relay 200 mA / 28 Vdc, N.C. / N.O.	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)	-40 to 70 °C (-40 to 158 °F)	-25 to 70 °C (-13 to 158 °F)
Certification	<div> <div>CE</div> <div> <div>ETL</div> <div>Intertek</div> </div> <div>EN 50131 GRADE 2</div> <div>EN 50130-5 CLASS IV</div> <div>EN 45011 SYSTEM 5</div> </div>	<div> <div>CE</div> <div>EN 50131 GRADE 2</div> <div>EN 50130-5 CLASS IV</div> <div>EN 45011 SYSTEM 5</div> </div>	<div> <div>CE</div> <div>EN 50131 GRADE 3</div> <div>EN 50130-5 CLASS IV</div> <div>EN 45011 SYSTEM 5</div> </div>

Motion Detectors

PIR Motion Detectors Comparison



Wired Indoor	       							
	NV5	DG55	DG65	DG75	525DM	DM50*	DM60*	DM70*
Page Reference	See page 43	See page 44	See page 44	See page 45	See page 45	See page 08	See page 08	See page 09
Sensor	Dual Element	Dual Element	Quad Opposed Element	2x Dual Opposed Element	1x MW, Dual Element	Dual Element	Quad Opposed Element	2x Dual Opposed Element
Detection Range	10m (32.8 ft) x 110° with creep zone	110° - 12 x 12m (40 x 40 ft)	110° - 12 x 12m (40 x 40 ft)	90° - 11 x 11m (36 x 36 ft)	12 x 12m (40 x 40 ft); 90°	110° - 12 x 12m (40 x 40 ft)	110° - 12 x 12m (40 x 40 ft)	90° - 12 x 12m (40 x 40 ft)
Pet Immunity	Up to 16 kg (35 lb)	-	-	Up to 40 kg (90 lb)	-	-	-	Up to 40 kg (90 lb)
Digital Detection	▲	▲	▲	▲	▲	▲	▲	▲
Auto Temperature Compensation	▲	▲	▲	▲	▲	▲	▲	▲
Alarm Output	Solid State, N.C. 150mA	Form A relay 100 mA / 28 Vdc, N.C. DG55C / DG65C = Form C relay 100 mA / 28 Vdc, N.C. / N.O.	Form A relay 100 mA / 28 Vdc, N.C. DG55C / DG65C = Form C relay 100 mA / 28 Vdc, N.C. / N.O.	DG75 = Form A relay 100 mA / 28 Vdc, N.C. DG75C = Form C relay 200 mA / 28 Vdc, N.C. / N.O.	Solid State, N.C. 150 mA	EVO Bus	EVO Bus	EVO Bus
Dual Edge Processing	▲	▲	▲	▲	▲	▲	▲	▲
EVO Bus	-	-	-	-	-	▲	▲	▲
Operating Temperature	-10 to 50 °C (14 to 122 °F)	-20 to 50 °C (-4 to 122 °F) UL / ULC Tested to 0 to 49 °C (32 to 120 °F)	-20 to 50 °C (-4 to 122 °F) UL / ULC Tested to 0 to 49 °C (32 to 120 °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)	-20 to 50 °C (-4 to 122 °F)
Certification	 EN 50131 GRADE 2 EN 50130-5 CLASS II EN 45011 SYSTEM 5	  Intertek EN 50131 GRADE 2 EN 50130-5 CLASS I	  Intertek EN 50131 GRADE 2 EN 50130-5 CLASS I	  Intertek EN 50131 GRADE 2 EN 50130-5 CLASS II EN 45011 SYSTEM 5				

Motion Detectors

PIR Motion Detectors Comparison

Wired Indoor



	DG467	DG466	476	476PET	460
Page Reference	See page 09	See page 46	See page 46	See page 47	See page 47
Sensor	Dual Element	2x Dual Element	Dual Element	Dual Element	Dual Element
Detection Range	360°, 7 x 6m (24 x 20 ft) at a height of 2.4m (8 ft) 360°, 11 x 6m (35 x 20 ft) at a height of 3.7m (12 ft)	Curtain 4.8m (15.7 ft) directional	110° - 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, with 88.5° viewing angle	2.1 x 1.5cm (7 x 5 ft) - card access applications; 6.6 x 4.5m (21 x 15 ft) - security applications
Pet Immunity	-	-	-	Up to 18 kg (40 lb)	-
Digital Detection	▲	▲	-	-	-
Auto Temperature Compensation	▲	▲	▲	▲	▲
Alarm Output	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.
Dual Edge Processing	▲	-	-	-	-
EVO Bus	▲	-	-	-	-
Operating Temperature	-20 to 50 °C (-4 to 122 °F)	-20 to 50 °C (-4 to 22 °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)
Certification	CE	CE	CE 	CE 	-

▲ = included feature

Wireless Motion Detectors
Indoor



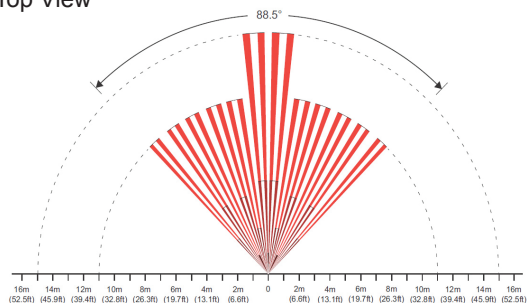
PMD2P
Wireless PIR Motion Detector with Pet Tolerance

- **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

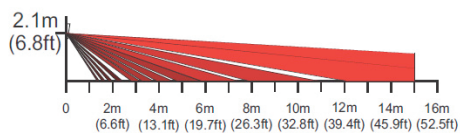
► **Specifications**

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 or 868 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



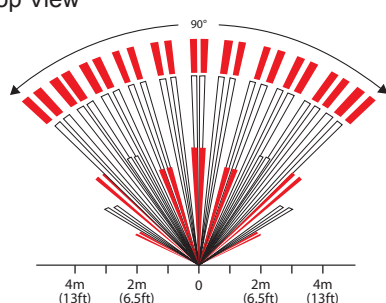
PMD75
Wireless Digital Dual-Optic PIR Motion Detector with Pet Immunity

- **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

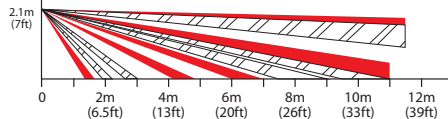
► **Specifications**

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 or 868 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

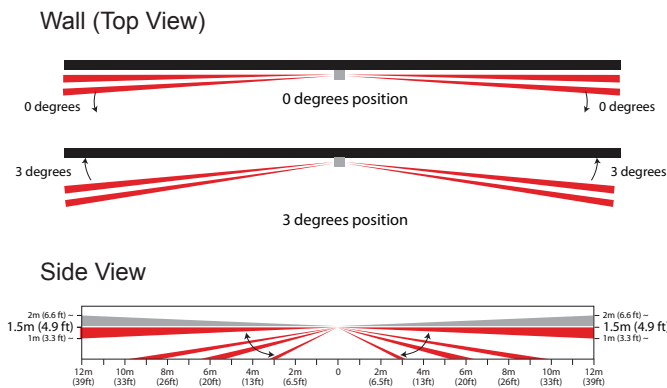


NVR780
Wireless Digital Outdoor Dual Side-View
Curtain Detector

- Features
 - 4 x dual element PIR sensors with 8 narrow detection beams, managed by Full Authority Digital Electronics Control (FADEC) to provide reliable detection and reduce false alarms
 - Single / Dual Zone operation modes: Send reports on each single / both sides
 - Increased white light rejection for reliable detection
 - Bright LED and buzzer indicator for clear feedback in outdoor conditions
 - Dual tamper mechanism (wall / cover)

► Specifications

Detection Range	Bi-directional, independent, 2 x 3 to 12m (9.8 to 39 ft)
Pet Immunity	Up to 40 kg (90 lb)
Power	3 x AA alkaline batteries
RF Frequency	433 or 868 MHz
Battery Life	3 years
IP Rating	IPX4
Operating Temperature	-35 to 50 °C (-31 to 122 °F)
Dimensions	9 x 5.5 x 4 cm (3.5 x 2.2 x 1.6 in.)



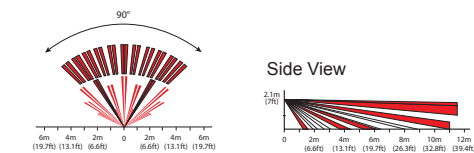
PMD85
Wireless Outdoor Digital Dual-Optic
PIR Motion Detector

- Features
 - 2 x Dual-opposed element PIR sensors
 - Increased white light rejection for highly reliable detection
 - Available with 1 of 3 lenses: Pet Array, Horizontal Curtain Beam, or Vertical Curtain Beam
 - 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

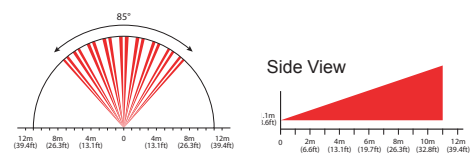
► Specifications

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 or 868 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.)

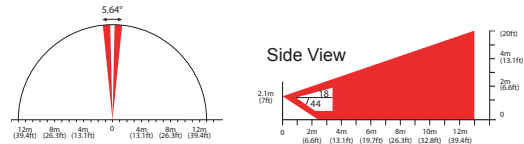
Pet Array
Top View



Horizontal Curtain Beam
Top View



Vertical Curtain Beam
Top View



Wireless Perimeter Detectors
Glass Break Detector



G550
Wireless Glass Break Detector

- Features
 - Detects breaking of different types of glass including plated, tampered, 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

► Specifications

Power	3 x AAA alkaline batteries
RF Frequency	433 or 868 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.)



5709C
Acoustic Glass Break Sensor Tester

- Features
 - Compatibility with the G550 Wireless Glass Break Detector
 - Provides real glass break sounds
 - Recommended size of glass: 1 x 2 ft or larger; Minimum 1 x 1 ft
 - Recommended for glass thickness as follows:
 - Plate glass: 3/32 to 1/4 in.
 - Tempered glass: 1/8 to 1/4 in.
 - Laminated glass: 1/8 to 1/4 in.

► Specifications

Battery Type	9V
Operating Temperature	0 to 49 °C (32 to 120 °F)
Dimensions	15.9 x 2.8 x 6.4 cm (6.3 x 1.1 x 2.5 in.)

Wireless Perimeter Detectors
Door Contact

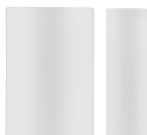


DCT10
Wireless Long-Range Door Contact

- 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

► Specifications

Input Response Time	45 ms
Power	4.5 Vdc (3 x AAA alkaline batteries)
RF Frequency	433 or 868 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 / K641LX
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.)



DCT2
Wireless Door Contact

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

► Specifications

Power	1 x 3V lithium battery (DL2450)
RF Frequency	433 or 868 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.)



Wireless Perimeter Detectors

Door Contact



DCTXP2

Wireless 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.)
 - Anti-tamper switch
 - Available in brown and white
 - Built-in strip antenna (printed)

► Specifications

Power	3 Vac, 2 x AAA alkaline batteries
RF Frequency	433 or 868 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	-10 to 55 °C (14 to 131 °F)
Dimensions	4.3 x 3 x 1.8 cm (1.7 x 1.2 x 0.7 in.)

Wireless Special Detectors

Multi-Axis Movement Detector



GS250

Multi-Axis Movement Detector

- Features
- Three-axis (X, Y, and Z axis) accelerometer detection
 - Adjustable sensitivity for any installation
 - Wireless range: Approximately 100m (328 ft) in line of sight
 - Power saving mode (conserves battery life)
 - Status LEDs indications for: Power-up, Test Mode, Movement, Tamper, Alarm

► Specifications

Power	1 x 3V lithium battery (CR2032 / DL2032) included
RF Frequency	433 or 868 MHz
Battery Life	2 years based on two detections per week
Wireless Range	Up to 100m (328 ft) in line of sight
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	2.7 x 7.5 x 0.64 cm (1.1 x 3 x 0.25 in.)


Wireless Safety Detectors Comparison



Features

	SD360	WS588P	WC588P	WH588P
Description	Wireless Ceiling-Mount Smoke Detector (Everday) For use in North America	Wireless Smoke Detector (Xiamen VS-Top Electronics Co., Ltd.)	Wireless Carbon Monoxide Detector (Xiamen VS-Top Electronics Co., Ltd.)	Wireless Heat Detector (Xiamen VS-Top Electronics Co., Ltd.)
Features	<ul style="list-style-type: none">▶ High-sensitivity photoelectric smoke sensor▶ Built-in siren▶ Test / Hush button▶ LED operation indicator	<ul style="list-style-type: none">▶ High-sensitivity photoelectric smoke sensor▶ Built-in siren▶ Protection against the ingress of foreign bodies / Insect Guard▶ Anti-tamper sensor▶ Test / Hush button▶ LED operation indicator	<ul style="list-style-type: none">▶ Highly sensitive electrochemical carbon monoxide sensor▶ Built-in siren▶ Insect Guard - Protection against the ingress of foreign bodies▶ Anti-tamper sensor▶ Test / Hush button▶ LED operation indicator	<ul style="list-style-type: none">▶ Fixed temperature heat sensor▶ Built-in siren▶ Insect Guard - Protection against the ingress of foreign bodies▶ Anti-tamper sensor▶ Test button▶ LED operation indicator

Specifications

Detection Type	Photoelectric Chamber	Photoelectric Chamber	Electrochemical	Heat
Power	3V lithium battery, Duracell or Panasonic CR123A (3 Vdc)	9 Vdc battery	9 Vdc battery	9 Vdc battery
Battery Life	3 years	1.5 years	1.5 years	1.5 years
RF Frequency	433 or 868 MHz (868 MHZ RF certification pending)	433 or 868 MHz	433 or 868 MHz	433 or 868 MHz
Alarm Level / Sensitivity	1.38 to 2.36%/ft	3.0 to 6.0%/m	50 ppm (Between 60 to 90 min) 100 ppm (Between 10 to 14 min) 300 ppm (Between <3 min)	58 °C (135 °F) fixed temperature triggers alarm
Standby Current	25 uA	18 uA max	<18 uA	18 uA max
Alarm Sound Level	85 dB at 10 ft	85 dB at 3m (10 ft)	85 dB at 3m (10 ft)	85 dB at 3m (10 ft)
Humidity	10 ~ 85%	10 to 90%	15 to 90%	10 to 90%
Operating Temperature	0 to 49 °C (32 to 120 °F)	5 to 45 °C (41 to 113 °F)	5 to 38 °C (41 to 100 °F)	-23 to 70 °C (-9 to 158 °F)
Dimensions	12 cm diameter x 5 cm depth (4.7 x 0.2 in.)	11 cm diameter (4.3 in.)	11 cm diameter (4.3 in.)	11 cm diameter (4.3 in.)
Certification		CE	CE	CE

* To comply with ETL / ETLc, SD360 must be installed with SP6000 or EVO192
* ETL / cETL is valid for 433MHz only

Wired Motion Detectors
Indoor



NV5
Digital PIR Motion Detector with Pet Tolerance

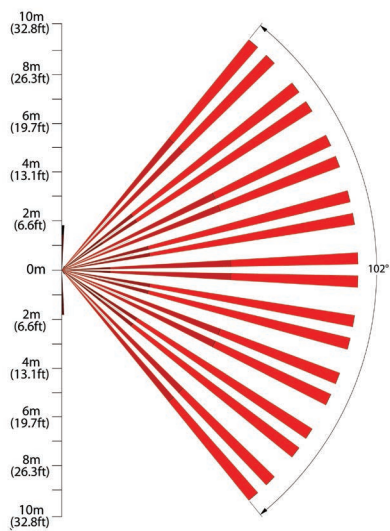
- Features

 - ▶ 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

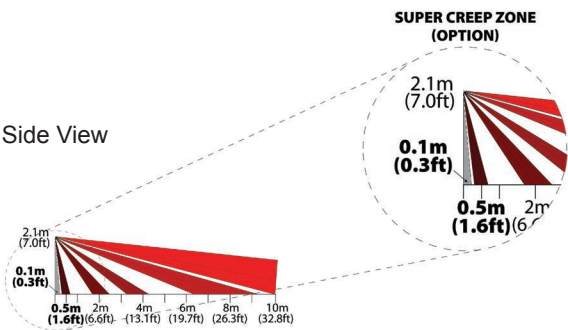
Specifications





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.)

Top View



Side View



For full details on Wired Indoor / Outdoor Motion Detectors:			
 <div> NVX80 Powerful Motion Detector with MW Anti-Mask and SeeTrue™ Technology for Outdoor / Indoor Use Refer to page 10 </div>	 <div> NV780 Dual Side-View Outdoor Detector Refer to page 10 </div>	 <div> DG85 Outdoor Digital Motion Detector with Pet Immunity Refer to page 11 </div>	 <div> DG457 Glass Break Detector Refer to page 12 </div>

Wired Motion Detectors

Digital Indoor



DG55

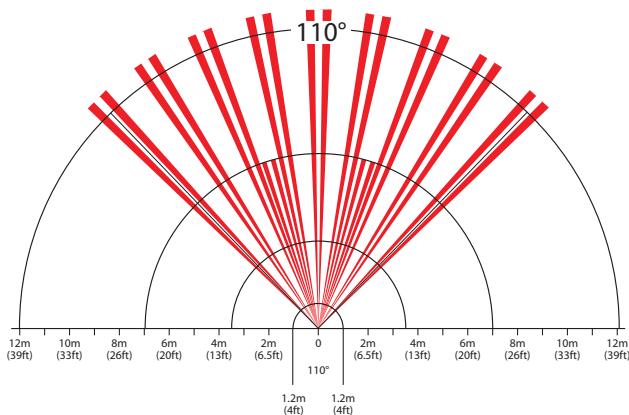
Dual Element Digital PIR Motion Detector

- 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

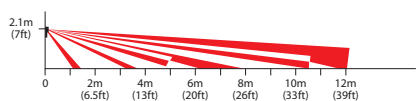
► Specifications

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

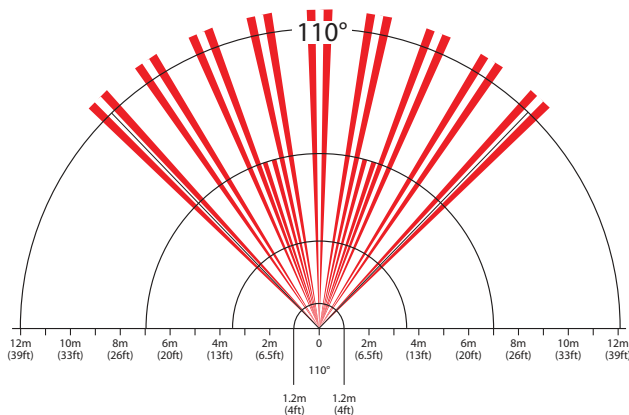
Quad Element Digital PIR Motion Detector

- 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

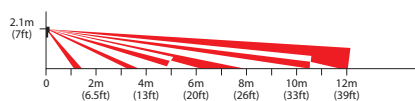
► Specifications

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

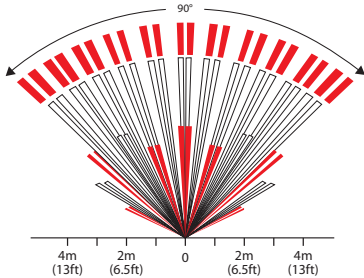
Two Dual Element Digital PIR Motion Detector with Pet Immunity

- 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

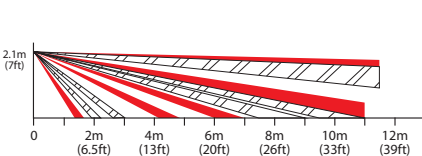
► Specifications

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

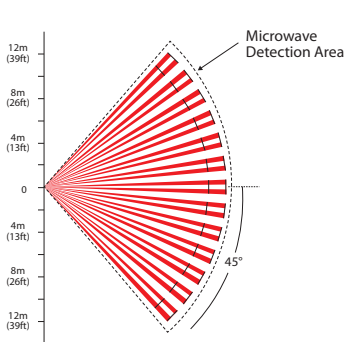
Dual Technology Digital Motion Detector with Dynamic Proximity Detection

- 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

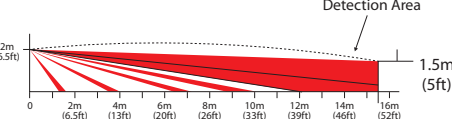
► Specifications

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

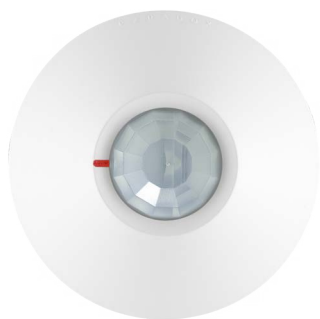


Side View



Wired Motion Detectors

Digital Ceiling



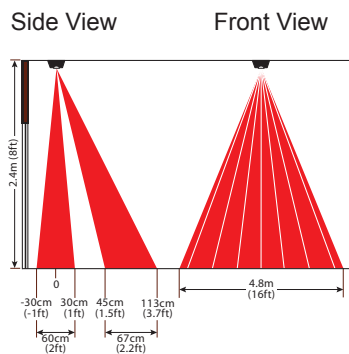
DG466

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 direction

► Specifications

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 09

Wired Motion Detectors

Analog



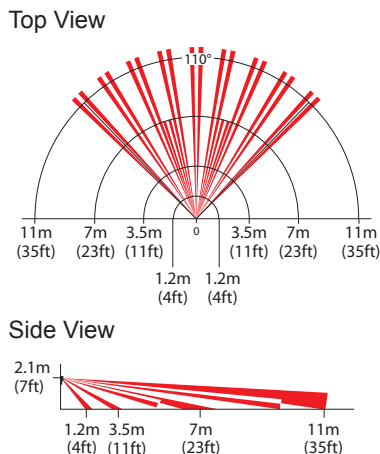
476

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

► Specifications

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.)



* Patented

Wired Motion Detectors

Analog



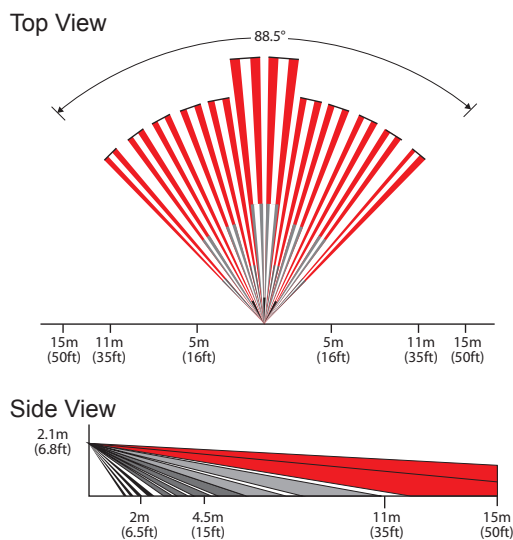
476PET

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

► Specifications

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.)



Wired Motion Detectors

Analog



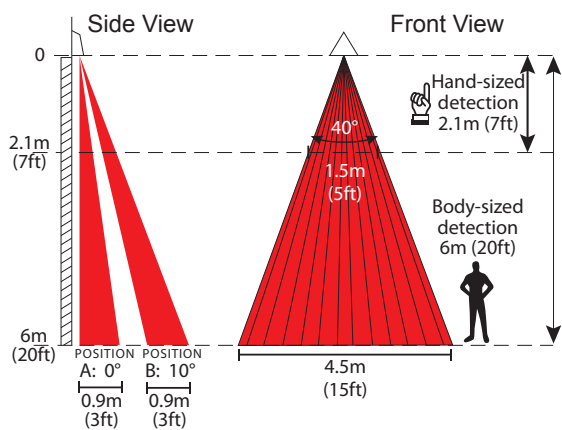
460

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°)

► Specifications

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.)



* Patented

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

► Specifications

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.)

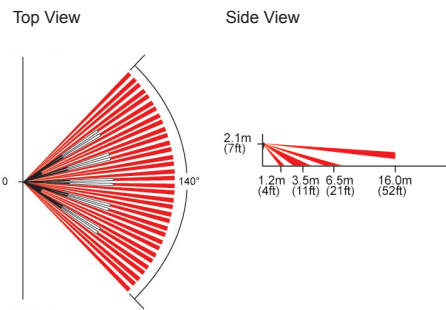
NVX80

Powerful Indoor / Outdoor
Detector with Anti-Mask
and SeeTrue™ Technology



Accessories

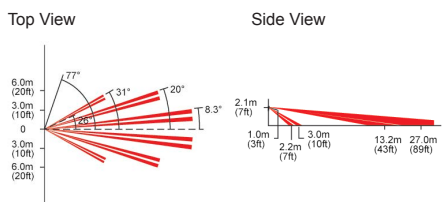
Lenses



WA2

Wide Angle-2

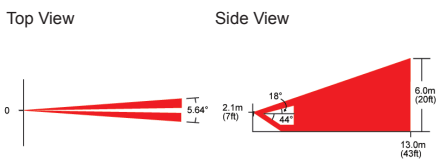
- ▶ The WA2 lens is compatible for use with:
- ▶ Digigard (DG55 and DG65)
- ▶ Digital Vision (525DM)
- ▶ EVO motion detector modules (DM50 and DM60)
- ▶ MAGELLAN (PMD2P) motion detectors



CU4

Lense L2 - Vertical Curtain Beam for DG85

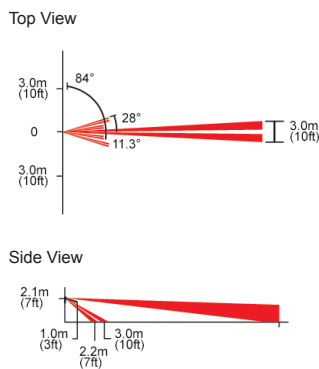
- ▶ The CU-4 lens is compatible for use with:
- ▶ DG85
- ▶ PMD85



CU1

Curtain-1

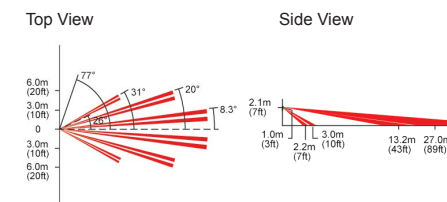
- ▶ The CU1 lens is compatible for use with:
- ▶ Digigard (DG55 and DG65)
- ▶ Digital Vision (525DM)
- ▶ EVO motion detector modules (DM50 and DM60)
- ▶ MAGELLAN (PMD2P) motion detectors



LR1

Long Range-1

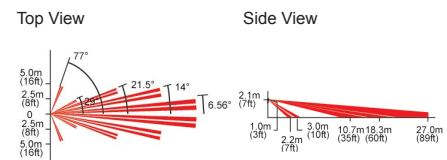
- ▶ The LR1 lens is compatible for use with:
- ▶ Digigard (DG55 and DG65)
- ▶ EVO motion detector modules (DM50 and DM60)
- ▶ MAGELLAN (PMD2P) motion detectors



LR2

Long Range-2

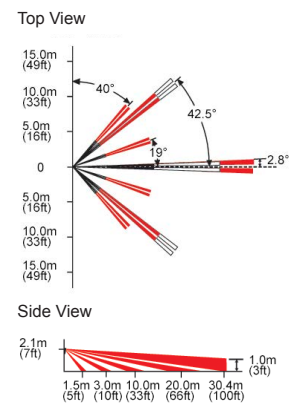
- ▶ The LR2 lens is compatible for use with:
- ▶ Digigard (DG55 and DG65)
- ▶ Digital Vision (525DM)
- ▶ EVO motion detector modules (DM50 and DM60)
- ▶ MAGELLAN (PMD2P) motion detectors



LR3

Long Range-3

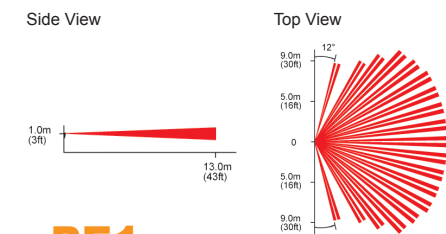
- ▶ The LR3 lens is compatible for use with:
- ▶ Digigard (DG55 and DG65)
- ▶ Digital Vision (525DM)
- ▶ EVO motion detector modules (DM50 and DM60)
- ▶ MAGELLAN (PMD2P) motion detectors



LR4

Long Range-4

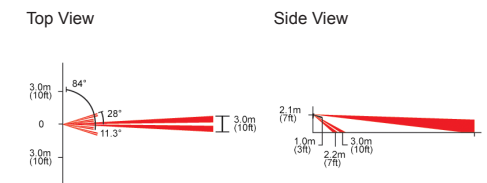
- ▶ The LR4 lens is compatible for use with:
- ▶ Digigard (DG55 and DG65)
- ▶ Digital Vision (525DM)
- ▶ EVO motion detector modules (DM50 and DM60)
- ▶ MAGELLAN (PMD2P) motion detectors



PE1

Pet Alley

- ▶ The PE1 lens is compatible for use with:
- ▶ Digigard (DG55 and DG65)
- ▶ Digital Vision (525DM)
- ▶ EVO motion detector modules (DM50 and DM60)
- ▶ MAGELLAN (PMD2P) motion detectors



PE-4

Lense L1 - Horizontal Curtain Beam for DG85

- ▶ The PE-4 lens is compatible for use with:
- ▶ DG85
- ▶ PMD85

Wireless Sirens

New!



SR130

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 cutoff)
- ▶ 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 307USB

▶ Specifications

Power Supply	3 x C alkaline batteries (4.5 Vdc)
RF Frequency	Built-in transceiver 433 or 868 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
Humidity	5 to 95%
IP Rating	IPX4
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.)

SR130

Paradox Outdoor
Wireless Siren with
Built-In Strobe Light



- ▶ Loud 100dB Piezo siren
- ▶ Fast alarm response time
- ▶ Different alarm sounds for intrusion and fire
- ▶ Dual-tamper detection (cover & wall)

Wireless Sirens



SR150
Wireless Outdoor Siren with Built-in Strobe Light

- **Features**
- Built-in transceiver
 - Wireless siren (100 dBA) with integrated strobe light
 - Weather-resistant design using a PC / ABS enclosure with UV protection and a silicone coated PCB (-20 to 50 °C / -4 to 122 °F)
 - Battery powered with optional external AC / DC power
 - Fast alarm response time (4 seconds)
 - 2.5 hour alarm display (strobe flashes every 4 seconds after bell cut-off)
 - Siren presence supervised by control panel
 - Dual tamper protection (cover removal, and removal from wall)
 - Siren test mode
 - 4-LED signal strength and status display
 - Strobe lens available in 4 colors (red, blue, amber, and clear)
 - In-field firmware upgradeable via 307USB

► **Specifications**

Power	3 x D alkaline batteries (4.5 Vdc) - Optional 8 to 16 Vac / 9 to 20 Vdc external power
Battery Life	Up to 3 years (typical use)
Current Consumption	Sleep: 22 uA Standby: 130 uA Alarm: 550 mA
Wireless Range	Typical residential environment 35m (115 ft) with all-in-one consoles 70m (230 ft) with MG5000, MG5050, RTX3 and K32LX
Siren	100 dBA (1 meter)
Humidity	93%
IP Rating	IPX4
Operating Temperature	-30 to 50 °C (-22 to 122 °F)
Dimensions / Weight	24 x 6 x 18 cm (9.5 x 2.3 x 7 in.) / 1.08 kg (2.4 lb) without batteries

Live
HD video
and audio
with
night vision

Paradox *Insight*TM
Designed for your lifestyle

GPRS / IP Receiver

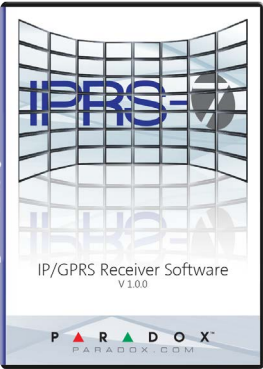


IPR512
Monitoring Receiver

- **Features**
 - 1024 supervised Paradox GPRS / IP modules using a PCS Series Module or IP150 Internet Module
 - End-to-end supervision
 - Module polling and receiver supervision
 - Direct communication – all reports are transmitted directly to the receiver from a PCS Series Module or IP150 Internet Module without having to use intermediary servers or network operation centers
 - Redundant Internet Service Provider (ISP) – two Ethernet ports to receive events through two different ISPs
 - 2 serial ports
 - Automation software communication protocols – supports ADEMCO 685, SURGARD MLR2-DG, or RADIONICS 6500
 - Integrated Account Management web page
 - Data backup on external memory card
 - Firmware upgradeable
 - 256-bit AES data encryption
 - 2-line, 40-character LCD with a 6-button interface to view troubles, backup data to / from memory card, set IP Address and Subnet Mask for LAN port, set LCD language, backlight and contrast, set time and date
 - Supports 19 in. rack mounting (1U) or desktop installation
 - Output relay (triggered by selected events)
 - Input relay (sends selected events when triggered)
 - Automatic date and time synchronization via Network Time Protocol (NTP)
 - Robust and durable construction
 - Standard 110 / 220 Vac power supply
 - Extremely low noise and low Current Consumption (less than 10W)
 - Secure private operating system

► **Specifications**

Input Voltage	100 to 240 Vac (50-60 Hz)
Input Power	10W
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Dimensions / Weight	4.2 x 42.8 x 30.4 cm (1.66 x 16.84 x 11.96 in.) / 3.28 kg (7.2 lb.)



IPRS-7
IP / GPRS PC Receiver Software

- **Features**
 - Desktop application that emulates the IPR512 GPRS / IP Monitoring Receiver, with unlimited # of accounts
 - Automation software communication protocols – supports ADEMCO 685, SURGARD MLR2-DG, or RADIONICS 6500
 - Buffers and manages incoming events
 - Displays and manages IP and GPRS devices without having to modify the panels
 - Supports SMS registration and reporting protocol through commercial GSM / GPRS modem
 - Allows software personalization through customer logo
 - Installation setup is downloadable from the web
 - Application auto-starts upon Windows start-up and always runs in background
 - Connect and Arm / Disarm a system with login credentials
 - Functions to import accounts from an IPR512
 - Supports HD77 Camera video file events (360P)
 - View live streaming of HD77 camera upon video alarm event; only if permitted by system master
 - Module polling and receiver supervision
 - Direct communication – all reports are transmitted directly to the receiver from a PCS Series Module or IP150 Internet Module without having to use intermediary servers or network operation centers
 - SDK for automation software video verification integration
 - Free SDK enables CMS automation software to control and receive both video and alarm for efficient event reporting

► **System Requirements**

Intel® Pentium® 4, 1.4 GHz processor or faster
Microsoft® Windows, XP, Vista, 2000 or Windows 7 platform
512 MB of RAM
100 MB of available hard-disk space for installation and database
An internet connection
Administrative rights on the PC where you will be installing the software
Port-forwarding configuration (required in order to enable IP / GPRS reportings)

Cellular
Communicator Module



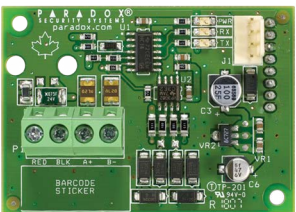
PCS250G / PCS250
GPRS / GSM Communicator Module

- **Features**
- Reports events to the IPR512 GPRS / IP Monitoring Receiver and / or the IPRS-7 PC Receiver Software
 - Instant notification of panel supervision loss
 - Easily Arm / Disarm the system via SMS
 - Reports alarms via text messages to up to 16 cellular phone numbers
 - Simple installation with 4-wire serial connection
 - Supports 2 cellular provider SIM cards for provider redundancy
 - Tamper switch support
 - Messages are secured with 256-bit (AES) encryption
 - Optional rod antenna can be installed up to 18m (60 ft) from the module using optional antenna cable extensions depending on the local signal strength
- **Features specific to PCS250:**
- Send pre-recorded voice messages to up to eight telephone numbers to report alarms using the optional VDMP3 Paradox Plug-in Voice Module (GSM mode)
 - Report via GSM (CID, SIA)

► **Specifications**

Power Class	Class 4 (2W at 850 / 900 MHz) Class 2 (1W at 1800 / 1900 MHz)
Antenna Bandwidth	70 / 80 / 140 / 170 MHz
Antenna Gain	<3 dBi; impedance 50 ohm <2W peak power
Voltage Input	12 Vdc nominal
Current Consumption	100 mA standby, average 450 mA (1.2A peak) during GPRS / GSM transmission
Encryption	128-bit (MD5 and RC4) and 256-bit (AES)
SMS Protocol	8-bit (IRA: ITU-T. 50) or 16-bit (UCS2 ISO / IEC10646)
Humidity	5 to 90%
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions / Weight	17.2 x 9.8 x 4.4 cm (6.8 x 3.9 x 1.7 in.) / 200g (7.05 oz)

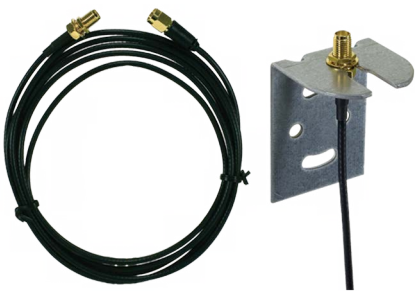
Cellular
Converter



CVT485
Plug-In RS485 Converter

- **Features**
- Converts serial to RS485, allowing a connection of the PCS250 up to 300m (1000 ft) from the control panel for better reception and / or to help conceal the module
 - Mounts directly onto the control panel
 - Only compatible when reporting via GSM to the central monitoring station
 - Dimensions: 6.3 x 4.5 x 2.8 cm (2.5 x 1.8 x 1.1 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

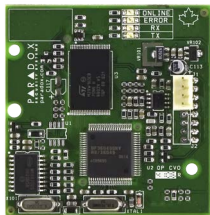
IP
Communication Cable



COMCABLE
Communication Cable

- Features
 - Directly connects the IP150 serial output to the PCS250 / PCS250G, or to the control panel's serial port

Voice
Dialer



VDMP3
Voice Communicator

- Features
 - Records a "Site ID" to identify the installation site (Requires EVO V2.10 or higher to program and InField software)
 - Dials up to 8 telephone numbers to report a burglar, panic or fire alarm using prerecorded messages
 - Voice-guided menu
 - Arm / Disarm the system remotely via telephone
 - Controls PGMs and toggle utility keys remotely via telephone using DTMF
 - Connects directly onto the control panel
 - In-field upgradeable

► Specifications

Input Voltage	13.8 Vdc, supplied by the VDMP3 port
Current Consumption	35 mA
Audio sample rate	18.345 kHz
Dimensions	6.4 x 6.4 cm (2.5 x 2.5 in.)



IP
Internet Module



IP150
IP Communicator

- Features
 - Reports control panel events via IP to the Paradox IPR512 GPRS / IP Monitoring Receiver and / or IPRS-7 GPRS / IP PC Receiver Software
 - Built-in web interface for easy configuration (requires port forwarding configuration)
 - Controls and monitors a control panel through an IP network (LAN / WAN /Internet)
 - Views live status of all zones and partitions (e.g., open / close, arm / disarm, troubles and alarms) via web browser
 - Arm / Disarm individual partitions via web browser
 - Event log on web interface; displays last 64 events
 - Sends notification and alarm system events via email
 - SSL support for sending secured emails via a secure sockets layer
 - HTTPS support for improved security
 - Two I/Os on board; controlled via the web interface, triggering an email
 - Enables iParadox, NEware, or Babyware to access your system through the Internet
 - ParadoxMyHome available for dynamic IP address
 - Very low bandwidth consumption
 - Built-in clip for mounting in a metal box
 - Supports multiple languages

► Specifications

Browser Requirement	Optimized for Internet Explorer 9 or higher, Mozilla Firefox 18 or higher, and Google Chrome, 1024 x 768 resolution minimum
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.)



EN 50131
GRADE 3

EN 50130-5
CLASS II

EN 50136
ATS 5

EN 45011
SYSTEM 5

ANSI/SIA CP-01-2010

IP
New!



UC300
Universal Converter

- Features
 - Enables reporting of events / alarms from any security control panel to Paradox IPR512 or IPRS-7 receivers via IP and / or GPRS (while connected to IP150 and / or PCS250 / PCS250G)
 - Sends email notifications of system events / alarms (with IP150 connected)
 - Sends SMS notifications of system events / alarms (with PCS250 / PCS250G connected)
 - Provides LED indications for dialer connectivity and power
 - Easy installation: built-in clip for mounting on panel enclosure; no screws required
 - Supports 2 working modes: Parallel and Serial reporting
 - In-field firmware upgradeable

► Specifications

Input Voltage	12 Vdc
Current Consumption	60 mA (standard) excluding IP150 and PCS250 / PCS250G
Compatibility	Any security control panel that supports CID (over PSTN) IP150 (V1.30 or higher) PCS250G (V2.10 or higher, GPRS only) BabyWare (V2.8 or higher) Infield (V3.8 or higher)
Operating Temperature	0 to 50 °C (32 to 122 °F)
Dimensions	10.3 x 4 x 2.4 cm (4.05 x 1.57 x 0.9 in.)

UC300

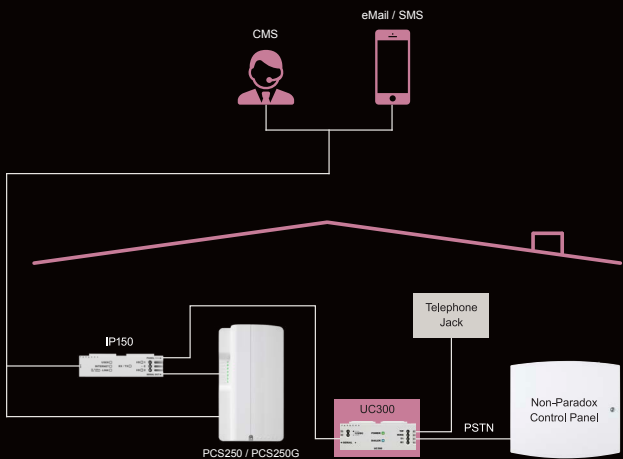
Universal Converter
For Central Monitoring Stations



Your Gateway
to New Customers

Reports events / alarms from
any panel to any central monitoring
station via a Paradox IP receiver

IP & GPRS Reporting:
UC300, IP150, PCS250 / PCS250G



► Compatible with control panels that communicate using Contact ID

Security Accessories
Security



CV4USB
RS-485 / RS-232 Converter Kit

- Features
 - Incorporates a USB port and a serial port (DB-9)
 - Enables control panel to communicate with a PC at 300m (1000 ft)
 - Connect from the control panel's serial port connector to PC's serial port (DB-9) or USB port
 - 38.4k baud communication (EVO) or 19.2k baud communication
 - Dimensions: 6.2 x 7.2 x 3.4 cm (2.4 x 2.8 x 1.3 in.)



PS817
Power Supply

► Specifications

Rating	1.75A* continuous rating, 2A peak output
Input Voltage	16.5 Vac
DC Voltage Output	13.8 Vdc
Charge Current	280 mA or 700 mA selectable
LED Indication	Indicate charging status
Short Circuit Protection	Built-in
Dimensions	7.5 x 5.8 cm (2.95 x 2.3 in.)

CE * Requires a 16 Vac 40VA transformer



307USB
Direct Connection Interface

- Features
 - Incorporates a USB port and a serial port (DB-9)
 - Enables control panel to communicate with a PC at 60m (200 ft)
 - Connect from the control panel's serial port connector to a PC's serial (DB-9) or USB port
 - Includes 3 LED status indicators (PC, Panel and RX / TX)
 - Cable included
 - Communication speed:
 - 57.6k baud (MG6250)
 - 38.4k baud (EVO)
 - 9.6k baud (MG Series and SPECTRA SP Series)
 - Dimensions: 6.8 x 4.2 x 2.2 cm (2.7 x 1.7 x 0.9 in.)



PMC5
USB Memory Key

- Features
 - Use to quickly transfer data to panel after uploaded by BabyWare
 - Lock switch to prevent accidental loss of data
 - LED status indication
 - Download or upload control panel / console programming within seconds
 - Connects directly to memory connector on the control panel / console
 - No need for a telephone line, PC or any other peripheral device in the field
 - Dimensions: 2.2 x 7.5 x 1 cm (0.9 x 3 x 0.4 in.)



TK278
Tamper Kit

- Features
 - Use with Paradox or compatible metal boxes
 - Protects against tampering (opening door or removal from wall)
 - Dimensions: 2.9 x 8.7 x 4.4 cm (1.1 x 3.4 x 1.7 in.)

Security Accessories
Boxes



Metal Boxes

- Features
 - Provision for multiple module and panel mounting
 - Many punch-out holes for simple wiring
 - Easy door removal
 - Dimensions available:
 - 20 x 25.5 x 7.6 cm (8 x 10 x 3 in.)
 - 28 x 28 x 7.6 cm (11 x 11 x 3 in.)
 - 28 x 28 x 7.6 cm (11 x 11 x 3 in.) EN version

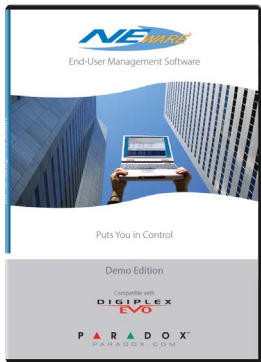
[EN 50131 GRADE 3 EN 50130-5 CLASS II] EN Version Only



PBOX

- Features
 - For use with ZX8SP, ZX8, RPT1, and PGM4
 - Dimensions: 17.1 x 15.3 x 2.6 cm (6.7 x 6 x 1 in.)

Software



NEware
End-User Management Software

- **Features**
 - Live system monitoring (view system, zone status, and troubles) without interrupting central station communication or system operation
 - Views and monitors live streams of up to 4 HD77 cameras connected to an EVOHD control panel
 - Arm / Disarm, bypass zones
 - Program access codes and settings of all users in an EVO192 and EVOHD system
 - Search, sort and filter saved system events
 - Generates and prints customized reports
 - Supports internet (TCP / IP) communication (requires an IP Internet Module or PCS Module)
 - On-site (local) uploading and downloading at 38.4k baud (EVO) using a 307USB Direct Connect Interface (60m / 200 ft) or a CV4USB Converter (300m / 1000 ft)
 - Remote or local upload and download programming via an IP Internet Module or PCS Module
 - Supports several languages simultaneously

► **System Requirements**

Windows XP®, Vista® (32 or 64-bit), Windows 7® (32 or 64-bit)
256 MB of RAM (512 MB of RAM suggested)
Pentium® III 800 MHz or higher
150 MB free disk space

For full details on:



Paradox Insight™ App
Self-Monitoring Application
Refer to page 04



BabyWare
PC Software

- **Features**
 - Upload / download via GPRS, IP, landline, or direct connect via 307USB / CV4USB
 - User friendly layout and operation
 - Easy monitoring and site management tools
 - Zone Test Mode: Tests for zone connectivity and operation
 - Powerful and fast sort, search and print capability
 - Data backup and powerful undo and recycle bin features
 - Built-in translation tool

► **System Requirements**

Microsoft® Windows® / Vista / XP / 2000
512 MB of RAM (1 GB Recommended)
Intel® Pentium® 4, 1.4 GHz processor or faster
150 MB of available hard-disk space for installation (additional 150 MB recommended for multi-accounts and events)

Software

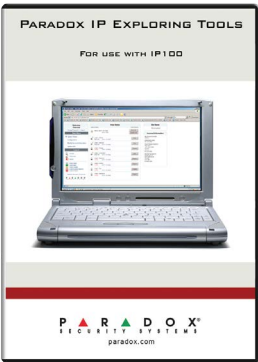


iParadox / iParadox Lite
Alarm System Control App

- ▶ **Features**
 - ▶ Remotely Arm / Disarm system
 - One-touch Arm / Disarm for all partitions - EVO only
 - ▶ Checks the current status of the alarm system
 - ▶ Bypass Zones
 - ▶ Remotely turns on / off outputs
 - Control lights
 - Control window shutters
 - Control garage doors
 - Control garden sprinklers
 - ▶ Displays live system status, alarm memory, and system troubles
 - ▶ Connects with static or dynamic IP (ParadoxMyHome DNS)
 - ▶ Multi-site support (up to 32): one connection at a time
 - ▶ Displays module label when module trouble occurs
 - ▶ Displays type of alarms (silent, audible, etc.)
 - ▶ Control up to 16 PGMs with MG/SP series, 5 for EVO series
 - ▶ Supports utility keys for PGM activation
 - ▶ Customizable PGM labels
 - ▶ Supports multiple languages
- ▶ **iParadox Lite* Features**
 - ▶ View system status (zones and partitions)
 - ▶ Displays alarm memory
 - ▶ Displays system troubles
 - ▶ Connects with static or dynamic IP (ParadoxMyHome)

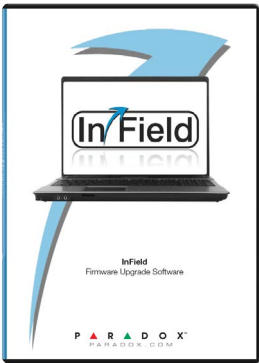
▶ **System Requirements**

IP150
iPhone, iPod Touch, iPad, iPad 3G
Android phones and tablets with software V1.6 or higher



IP Exploring Tools
IP Configuration Tools Application

- ▶ **Features**
 - ▶ Enables you to set the module's IP address and other network settings
 - ▶ Registers the module on our DNS service (paradoxmyhome.com)
 - ▶ Performs on-site connection



InField
Firmware Upgrade Software

- ▶ **Features**
 - ▶ Connects remotely via IP (IP Internet Module) or GPRS (PCS Series)
 - ▶ Connects locally via 307USB, CV4USB or IP
 - ▶ Built-in links to download the latest firmware (requires Internet connection)
 - ▶ Automatic adjustment to the hardware's maximum transfer speed
 - ▶ Records Voice ID for use with the VDMP3 Plug-In Voice Module

* iOS only

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ICON DESCRIPTION

Throughout the catalog, the icons shown below appear alongside product descriptions to which they apply.

	Anti-masking Technology		Pet Immunity
	Paradox Digital Detection Motion Detectors		SeeTrue™ Technology
	Digital Microwave Detection		Supports StayD™
	Organic Light-emitting Diode		RX / TX Transceiver Technology
	Outdoor Use		

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► Limited Warranty

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About Paradox

Established in 1989, our first line of motion detectors featured our breakthrough, patented Auto-Pulse Signal Processing (APSP). By 1996, we offered the first and only fully digital motion detector line in the industry. We continued advancing security technology with our EVO series, featuring built-in access control based on our encrypted expandable one-bus-for-all system. In 2001, we sold our 1 millionth motion detector and launched our award-winning MAGELLAN wireless all-in-one console.

Headquartered in the Bahamas with additional development, production and support centers worldwide, the Company operates a 16,000 meter, state-of-the-art production facility. Paradox holds over 30 patents. Our products meet all global certification standards, including ISO 9001:2008, and ensure the ultimate in high-level security while enabling freedom of movement in secured locations.

Paradox takes great pride in our strong chain of over 65 global distributors. Today, Paradox operates in more than 130 countries, supported by more than 500 professionals around the globe.

In a dynamic and highly competitive market, security system distributors, installers and end-users have come to rely on Paradox's innovative solutions and unmatched customer support and service.

