Life Enhancing Technology
Solutions Since 1989

At Paradox, our goal is to deliver innovative and leading products, together with our team of Distributors, to our Customers.

The Paradox team is always proud to introduce service and exceed the expectations of our Distributors and Users.

As a privately owned company, myself, our managers and the whole Paradox team are available and proud to develop and serve.

With three locations of intensive R&D, we continue to invest heavily in order to develop and continue the journey started in 1989.

Our products are sold to, and through, our loyal Distributors in over 80 countries, many of whom have been with us for over 25 years.

Since the beginning, Paradox's approach has been to work hand-in-hand, as a team with our Distributors and our Suppliers, to support Installers and Users. This teamwork served to realize our mutual goal of providing design-led, cutting-edge technology and service. We are convinced that this unique formula makes us special in today's world.

As always, I thank our Distributors, Suppliers and Paradox's dedicated Employees for the hard work and loyalty over the years, and most of all, our Dealers and Users throughout the world.

Comments and feedback about the catalog or other issues can be directed to VIPfeedback@paradox.com.

Yours Sincerely

Shmuel Hershkovitz
Founder and Owner
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<td><strong>Special Modules</strong></td>
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</tbody>
</table>

▲ Compatible with panel
Requires RTX3 (SP/EVO) / K32LX (SP) / K641LX (EVO)
Requires RX1 (SP) / RTX3 (SP/EVO) / K32LX (SP)
<table>
<thead>
<tr>
<th>Security Accessories</th>
<th>Page</th>
<th>EVOHD</th>
<th>EVO192</th>
<th>SP4000</th>
<th>SP5500</th>
<th>SP6000</th>
<th>SP65</th>
<th>SP7000</th>
<th>MG5000</th>
<th>MG5050</th>
<th>MG6250</th>
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<tr>
<td>PS817</td>
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<td>307USB</td>
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</tbody>
</table>

| Detectors            |       |       |        |        |        |        |      |        |        |        |        |
| DM50                 | 08    | ✠    | ✠      | -      | -      | -      | -    | -       | -       | -       | -       |
| DM60                 | 08    | ✠    | ✠      | -      | -      | -      | -    | -       | -       | -       | -       |
| DM70                 | 09    | ✠    | ✠      | -      | -      | -      | -    | -       | -       | -       | -       |
| NVX80                | 12    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| PMD2P                | 33    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| PMD75                | 33    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| PMD85                | 35    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| NV5                  | 41    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| DG55+                | 39    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| DG65+                | 39    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| DG75+                | 40    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| DG85                 | 11    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| 525DM                | 40    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| DG467                | 09    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| DG466                | 42    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| 476                  | 43    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| 476PET               | 43    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| 460                  | 44    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| DG457                | 12    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| G550                 | 36    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| GS250                | 37    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| SD360                | 37    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| 950                  | 44    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| NV780MX              | 10    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| NV35MX               | 10    | ✠    | ✠      | -      | -      | -      | -    | -       | -       | -       | -       |
| NV780MR              | 34    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| NV35MR               | 35    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| NV35M                | 42    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| NV75M                | 38    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| NV75MX               | 38    | ✠    | ✠      | -      | -      | -      | -    | -       | -       | -       | -       |
| NV75MR               | 34    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
| NV75MW               | 38    | ✠    | ✠      | ✠      | ✠      | ✠      | ✠    | ✠       | ✠       | ✠       | ✠       |
VIDEO MONITORING

**HD78 / F**
Event-Driven Indoor Security IP Camera / Detector

- **Features**
  - Security Event-driven - Files linked to events
  - Models: HD78F Wi-Fi / Ethernet, HD78 Ethernet
  - Remote access via Insite Gold free application and ParadoxMyHome DNS (annual charge)
  - Google Drive cloud storage with no after-purchase charges
  - 720P color streaming (HD264), HD audio
    - Internal storage: 20 minutes alarm and 20 minutes Video on Demand (VOD) / Record on Trigger (ROT)
  - Free Insite Gold application
  - Easy installation and programming, viewing, arm / disarm, access and PGM activations
  - Auto storage on Insite Gold when playing video files
  - Pre-alarm -3 sec. recording
  - Push notifications
  - Built-in Security Grade Quad PIR detector
  - Video Live Sharing - share live video streaming with up to 4 participants
  - Night Illumination IR LEDs
  - Compatible with Paradox Spectra (SP5500, SP6000, SP7000), EVO192 and EVOHD

- **Specifications**
  - Image Resolution: 1280 x 720p
  - Image Sensor Type: 1.4 megapixels, CMOS sensor
  - 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) / 110°
  - Camera Storage: 2 GB, 20 minutes alarm and 20 minutes ROT / ROD
    - File length - 10 seconds after last detection, for a maximum of 3 minutes
  - Input Voltage: 11.2 to 16 Vdc
  - Current Consumption: 350 mA Max - IR illumination ON
    - 250 mA Nominal - IR illumination OFF
  - Operating Temperature: -20 to 40 °C (-4 to 104 °F)
  - Dimensions: 15 x 7.5 x 5 cm (6 x 3 x 2 in.)

**Insite GOLD App**
Full Smartphone Control

- **Features**
  - Multi-site
  - Configure ParadoxMyHome Site
  - Configure and program Camera site including Google Drive backup
  - Push notification
  - Panel Master full control
  - View (VOD) play video event files
  - Configure and control PGMs
  - Control access doors (grant access, lock, unlock)
  - Arm, Disarm system
  - Panic buttons
  - Android and iOS

- **System Requirements**
  - iPhone iOS V6.0 or higher
  - Android V4.2 - V4.4.4 or higher
EVO systems provide the highest level of protection for banks, military and government sites, luxurious residential homes and any place where maximum security is essential. These systems are designed to be easy to use and their modular concept provides installers with work-saving features that make expanding, installing and servicing them quick and convenient.

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

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

### EVO Compatibility Overview

<table>
<thead>
<tr>
<th>Control Panels</th>
<th>4-wire EVO BUS</th>
</tr>
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<tbody>
<tr>
<td>EVO192</td>
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<td>EVOHD</td>
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<tr>
<th>Communicator Modules</th>
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<tbody>
<tr>
<td>PCS260 / 65: 4G / 3G / 2G / GSM Communicator Module</td>
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<tr>
<td>PCS250 / G: GPRS / GSM Communicator Module</td>
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<tr>
<td>IP150: IP Communicator</td>
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<tr>
<td>VDMP3: Plug-in Voice Module</td>
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<thead>
<tr>
<th>Software &amp; Accessories</th>
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<tbody>
<tr>
<td>PMC5: Memory Key</td>
</tr>
<tr>
<td>307USB: Direct Connect Interface</td>
</tr>
<tr>
<td>BabyWare: PC Software</td>
</tr>
<tr>
<td>NEware: End-User Management Software</td>
</tr>
<tr>
<td>iParadox: Alarm System Control</td>
</tr>
<tr>
<td>InField: Firmware Upgrade Software</td>
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<thead>
<tr>
<th>Special Modules &amp; Accessories</th>
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<tbody>
<tr>
<td>HUB2: 2-Port Hub</td>
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<tr>
<td>PGM4: 4-Output Expansion Module</td>
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<tr>
<td>PRT3: Integration Module</td>
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<tr>
<td>PS17: 700 mA Power Supply Module</td>
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<tr>
<th>Keypads</th>
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<tbody>
<tr>
<td>TM50: Intuitive Touchscreen</td>
</tr>
<tr>
<td>K656: Touch Sense Keypad</td>
</tr>
<tr>
<td>K641+: 32-Character Blue LCD Keypad</td>
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<tr>
<td>K641LX: 32-Character Blue LCD Keypad with Built-In Transceiver</td>
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<tr>
<td>K641R: 32-Character Blue LCD Keypad with Integrated Card Reader</td>
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<tr>
<th>Digital Bus Detectors</th>
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<tbody>
<tr>
<td>NV75MX: 16M Dual Mironel Optics Pet Immune Anti-Mask Detector</td>
</tr>
<tr>
<td>NV780MX: Dual Side-View Outdoor Detectors with Anti-Mask and Pet Immunity</td>
</tr>
<tr>
<td>NV35MX: Wired Outdoor / Indoor Window and Sliding Door Dual Detector</td>
</tr>
<tr>
<td>NVX80: High-End Motion Detector with Anti-Mask and SeeTrue Technology for Indoor / Outdoor Use</td>
</tr>
<tr>
<td>DM50: Dual Element Motion Detector</td>
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<tr>
<td>DM60: Quad Element Motion Detector</td>
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<tr>
<td>DM70: Dual-optic High-performance PIR</td>
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<tr>
<td>DG85: Outdoor Dual-Optic High-Performance PIR</td>
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<tr>
<td>DG457: GlassBreak Detector</td>
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<tr>
<td>DG467: 360° Ceiling-Mounted PIR</td>
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<tr>
<th>Zone Expansion &amp; Door Contact Modules</th>
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<tr>
<td>ZC1: Door Contact Module</td>
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<tr>
<td>ZX1: 1-Zone Expansion Module</td>
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<tr>
<td>ZX4: 4-Zone Expansion Module</td>
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<tr>
<td>ZX8: 8-Zone Expansion Module</td>
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<tr>
<td>ZX8D*: 8-Zone Expansion Module</td>
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<tr>
<td>ZX16D*: 16-Zone Expansion Module</td>
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<tr>
<td>ZX32D*: 32-Zone Expansion Module</td>
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<tr>
<td>RTX3: 2-Way Wireless Expansion Module</td>
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<tr>
<td>* DIN rail mount</td>
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<tr>
<th>Access Control Modules</th>
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<tbody>
<tr>
<td>ACM12: 4-Wire Access Control Module</td>
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<tr>
<td>R910*: 4-Wire Proximity Card Reader</td>
</tr>
<tr>
<td>R915*: 4-Wire Proximity Card Reader / Keypad</td>
</tr>
<tr>
<td>* Other Wiegand Readers + Cards Available</td>
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</table>
## EVO Control Panels Comparison

### Features

<table>
<thead>
<tr>
<th></th>
<th>EVO192</th>
<th>EVOHD</th>
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<tbody>
<tr>
<td><strong>Maximum Zones</strong></td>
<td>192</td>
<td>192</td>
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<tr>
<td><strong>On-Board Zones</strong></td>
<td>8 (16 with ATZ)</td>
<td>8 (16 with ATZ + Tamper Input)</td>
</tr>
<tr>
<td><strong>Partitions</strong></td>
<td>8</td>
<td>8</td>
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<tr>
<td><strong>Users</strong></td>
<td>999</td>
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<tr>
<td><strong>In-Field Firmware Upgradeable</strong></td>
<td>▲</td>
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<tr>
<td><strong>Access Control</strong></td>
<td>32 doors</td>
<td>32 doors</td>
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<tr>
<td><strong>Events Buffered</strong></td>
<td>2048</td>
<td>2048</td>
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<tr>
<td><strong>PGMs</strong></td>
<td>250 (5 on board)</td>
<td>250 (5 on board)</td>
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<tr>
<td><strong>Siren</strong></td>
<td>Wired</td>
<td>Wired</td>
</tr>
<tr>
<td><strong>Total Expansion Modules</strong></td>
<td>254</td>
<td>254</td>
</tr>
<tr>
<td><strong>Landline Speed for Programming</strong></td>
<td>300 Bps</td>
<td>300 / 1200 Bps</td>
</tr>
</tbody>
</table>

### 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 | PGM1: Open collector output PGM2 to PGM4: 100 mA solid-state relays with +/- trigger PGM5: Form C relay output rated at 5A / 28 Vdc N.O. / N.C.  |
| **Operating Temperature** | -10 to 55 °C (14 to 131 °F) | -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

[Certification / Special Feature Image]

▲ = included feature
### TM50

**Wired Touchscreen Keypad**

- **Features**
  - Controls and displays up to 192 zones in 8 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**
    - 200 mA maximum alarm
  - **Keypad Zone Input**
    - 1 for a detector or external temperature sensor
  - **Humidity**
    - 5 to 93%
  - **Operating Temperature**
    - -10 to 55 °C (14 to 131 °F)
  - **Dimensions / Weight**
    - 14.4 x 9.6 x 1.4 cm (5.7 x 3.8 x 0.6 in.) / 165g (5.8 oz)

### K641+

**Wired LCD Keypad**

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

- **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.)
**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.)

---

**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.)

---

* Patented
**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**

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

**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**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection Range</td>
<td>7 x 6m (24 x 20 ft) at 2.4m (8 ft); 11 x 6m (35 x 20 ft) at 3.7m (12 ft)</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>9 to 16 Vdc</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>Typical: 29 mA</td>
</tr>
<tr>
<td>Alarm Output Available</td>
<td>Form A relay, N.C.</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>10.8 diameter x 13.5 cm depth (4.25 x 1.38 in.)</td>
</tr>
</tbody>
</table>
NV35MX
Wired Outdoor / Indoor Window and Sliding Door Dual Detector

- Features
  - Outdoor / indoor protection solution for windows and sliding doors
  - Advanced Optical and Digital Technology
  - Dual detectors, managed by Full Authority Digital Electronics Control (FADEC)
  - Patented Auto Pulse Signal Processing with Automatic Temperature Compensation
  - Digital EMI / RFI interference rejection
  - Optical Pet discrimination geometry to support super Pet Immunity
  - Anti-Masking: Unique active IR detection for both blocking items up to 30 cm in front of the detector and sprayed liquids
  - Ultra low power management operation with Paradox Effi+ circuit
  - Dual tamper detection (removal of cover or unit)

- Specifications
  - Detection Range: Super Pet Immunity Mode: 7.5 x 2m (25 x 7 ft)
    Sharp Mode (Pet Immunity off): 10 x 2m (33 x 7 ft)
  - Pet Immunity: 50 cm (20 in.)
  - Input Voltage: 10 to 15 Vdc
  - Current Consumption: Typical: 15 mA, Maximum: 19.2 mA
  - IP Rating: IP54
  - Operating Temperature: -35 to 50°C (-31 to 122°F)
  - Dimensions: 12.3 x 6.1 x 4.3 cm (4.8 x 2.4 x 1.7 in.)

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

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

- Specifications
  - Detection Range: Super Pet Immunity Mode: 7.5 x 2m (25 x 7 ft)
    Sharp Mode (Pet Immunity off): 10 x 2m (33 x 7 ft)
  - Pet Immunity: 50 cm (20 in.)
  - Input Voltage: 10 to 15 Vdc
  - Current Consumption: Typical: 15 mA, Maximum: 19.2 mA
  - IP Rating: IP54
  - Operating Temperature: -35 to 50°C (-31 to 122°F)
  - Dimensions: 21 x 11 x 7 cm (8.2 x 4.3 x 2.7 in.)
**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
- Impact and temperature resistant casing, with UV protected lens
- Multi-Level sensitivity adjustment
- Can be used with SB85 Heavy Duty Outdoor Swivel Bracket

### Specifications

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

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 Zone Expanders**

**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

---

**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

---

**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)

---

**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

---

**ZX8**  
8-Zone Expansion Module

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

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
<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>12 to 16 Vdc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Consumption</td>
<td>60 mA</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>11 x 10 x 6 cm (4.2 x 4 x 2.5 in.)</td>
</tr>
</tbody>
</table>

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
<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>12 to 16 Vdc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Consumption</td>
<td>68 mA</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>10.7 x 10.5 x 7 cm (4.2 x 4.1 x 2.8 in.)</td>
</tr>
</tbody>
</table>

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 economical installations
- Test Mode tests each input

Specifications
<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>16 to 24 Vac or 24 Vdc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Power Supply</td>
<td>Built-in 2.85A</td>
</tr>
<tr>
<td>Module Rating</td>
<td>13.8 Vdc, Class 2</td>
</tr>
<tr>
<td>Auxiliary Output</td>
<td>12 Vdc, 1A maximum</td>
</tr>
<tr>
<td>Battery</td>
<td>12 Vdc, 4 Ah or 7 Ah</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>21 x 10 x 6 cm (8.4 x 4 x 2.5 in.)</td>
</tr>
</tbody>
</table>
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 SP Series only)
- Supports SR150 and SR130 Wireless Sirens (SP Series only)
- Supports all MAGELLAN transmitters including 2WPGM
- Supports 2 RPT1 and 8 K32RF / K37 (SP Series only)
- RF jamming supervision
- Low battery, tamper and check-in supervision for reconnected modules
- Transmitter signal strength display
- 3 PGM outputs and 1 optional output
  - 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 upgradeable via 307USB

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>9 to 16 Vdc</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>50 mA</td>
</tr>
<tr>
<td>RF Frequency</td>
<td>433 or 868 MHz</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>-120 dBm</td>
</tr>
<tr>
<td>Humidity</td>
<td>5 to 90%</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 49 °C (32 to 120 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>15 x 16 x 3 cm (6 x 6.5 x 1.1 in.)</td>
</tr>
</tbody>
</table>

ACM12
4-Wire Access Control Module

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

Specifications

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

EVO Access Control
Card Reader & Keypad

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)
- Available in 3 colors: white, silver, or black

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Consumption</td>
<td>60 mA</td>
</tr>
<tr>
<td>Frequency</td>
<td>Exciter field at 125 kHz Pulse Modulated</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP65</td>
</tr>
<tr>
<td>Dimensions</td>
<td>14.4 x 15.2 x 2.5 cm (1.7 x 6 x 1 in.)</td>
</tr>
</tbody>
</table>
**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 upgradeable 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 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

**C706**

2-Sided High-Gloss ISO Proximity Card

- **Features**
  - 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 upgradeable 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.)

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 upgradeable 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.)

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

The SPECTRA SP series' outstanding reliability easily expands to provide you with more features, such as StayD™, more on-board zones (expandable up to 32), more on-board PGMs (expandable up to 16), and support for the GSM / GPRS Modules (PCS Series), 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

#### Control Panels

<table>
<thead>
<tr>
<th>Panel Model</th>
<th>Zones</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP65</td>
<td>9 to 32 Zone Control Panel</td>
</tr>
<tr>
<td>SP4000</td>
<td>4 to 32 Zone Control Panel</td>
</tr>
<tr>
<td>SP5000</td>
<td>5 to 32 Zone Control Panel</td>
</tr>
<tr>
<td>SP6000</td>
<td>8 to 32 Zone Control Panel</td>
</tr>
<tr>
<td>SP7000</td>
<td>16 to 32 Zone Control Panel</td>
</tr>
</tbody>
</table>

#### Expansion Modules

- ZX8: 8 Zone Expansion Module
- ZX8S: 8 Zone Expansion Module
- PGM4: 4 PGM Expansion Module
- RTX3: Wireless Expansion Module
- RX1: Wireless Receiver

#### Video Monitoring

- HD78 / F: Event-Driven Indoor Security IP Camera / Detector

#### Wired Keypads and Remotes

- TM50: Intuitive Touchscreen
- K32LX: Wired LCD Keypad with Integrated RF Transceiver
- K32LCD+: 32-Character Wired LCD Keypad Module
- K35: 32-Zone Wired Fixed LCD Keypad Module
- K32+: 32-Zone Wired LED Keypad Module
- K10V: 10-Zone Wired LED Keypad Module
- K10H: 10-Zone Wired LED Keypad Module
- K836: 10-Zone Wired LED Keypad Module

#### Wireless Keypads and Remotes

- K37: 32-Zone Wireless Fixed LCD Keypad
- K32RF: 32-Zone Wireless LED Keypad Module
- REM3: Hand-Held Two-Way Remote Keypad
- REM2: 2-Way Remote Control with Backlit Buttons
- REM1: Remote Control with Backlit Buttons
- REM101: Emergency / Panic Remote Control
- RAC1: Remote Control with Integrated Access Card

#### Wireless Devices

- PMD85: Wireless Outdoor Digital Dual-Optic High-Performance PIR
- PMD75: Wireless Digital Dual-Optic High-Performance PIR
- PMD2P: Wireless PIR Motion Detector with Built-in Pet Immunity
- DCT10: Wireless 2-Zone Long-Range Door Contact
- DCTXP2: 2-Zone Wireless Door Contact
- DCT2: Wireless Ultra-Small Door Contact
- GS50: Wireless Glass Break Detector
- GS250: Gpower Wireless Multi-axis Detector
- SD360: Wireless Ceiling-Mounted Smoke Detector
- SR130: Wireless Outdoor Siren with Built-in Strobe Light
- SR150: Wireless Outdoor Siren with Built-in Strobe Light
- RPT1: Wireless Repeater Module
- 2WP: 2-Way Wireless PGM

### Software & Accessories

- iParadox: Alarm System
- HUB2: 2 Port HUB
- PMC5: Memory Key
- 307USB: Direct Connect Interface
- BabyWare: PC Software
- InField: Firmware Upgrade

---

*SPECTRA Simple Scalability*
## SPECTRA
### Control Panels Comparison

### Features

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

### Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>SP4000</th>
<th>SP5500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)</td>
<td>16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)</td>
</tr>
<tr>
<td>Internal Power Supply</td>
<td>1.1A switching</td>
<td>1.1A switching</td>
</tr>
<tr>
<td>Battery</td>
<td>12 Vdc, 4 Ah / 7 Ah</td>
<td>12 Vdc, 4 Ah / 7 Ah</td>
</tr>
<tr>
<td>Battery Charging Current</td>
<td>Limited by 1.1A supply current (AUX consumption - no dedicated battery current limit circuit)</td>
<td>350 mA or 700 mA</td>
</tr>
<tr>
<td>Auxiliary Current</td>
<td>450 mA, fuseless shutdown at 600 mA</td>
<td>700 mA maximum, fuseless shutdown at 1.1A</td>
</tr>
<tr>
<td>Bell Output</td>
<td>1A (fuseless shutdown at 3A)</td>
<td>1A (fuseless shutdown at 3A)</td>
</tr>
<tr>
<td>PGM Output</td>
<td>1 x 100 mA open collector</td>
<td>2 x 100 mA solid state</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10 to 55 °C (14 to 131 °F)</td>
<td>-10 to 55 °C (14 to 131 °F)</td>
</tr>
<tr>
<td>Metal Box</td>
<td>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</td>
<td>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</td>
</tr>
<tr>
<td>Dimensions</td>
<td>6.6 x 14 x 2.5 cm (2.5 x 5.5 x 1 in.)</td>
<td>8.9 x 19 x 2.5 cm (3.5 x 7.5 x 1 in.)</td>
</tr>
</tbody>
</table>

### Special Feature | Certification

▲ = included feature

*any of which can be wireless  **optional
## SPECTRA

### Control Panels Comparison

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

### Specifications

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>1.5A switching</th>
<th>1.5A switching</th>
<th>1.5A switching</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Voltage</strong></td>
<td>16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)</td>
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</tr>
<tr>
<td><strong>Battery</strong></td>
<td>12 Vdc, 4Ah / 7Ah</td>
<td>12 Vdc, 4Ah / 7Ah</td>
<td>12 Vdc, 4Ah / 7Ah</td>
</tr>
<tr>
<td><strong>Battery Charging Current</strong></td>
<td>350 or 700 mA</td>
<td>Limited by 1.1A supply current (AUX consumption - no dedicated battery current limit circuit)</td>
<td>350 or 700 mA</td>
</tr>
<tr>
<td><strong>Auxiliary Current</strong></td>
<td>700 mA maximum, fuseless shutdown at 1.1A</td>
<td>700 mA maximum, fuseless shutdown at 1.1A</td>
<td>700 mA maximum, fuseless shutdown at 1.1A</td>
</tr>
<tr>
<td><strong>Bell Output</strong></td>
<td>1A (fuseless shutdown at 3A)</td>
<td>1A (fuseless shutdown at 3A)</td>
<td>1A (fuseless shutdown at 3A)</td>
</tr>
<tr>
<td><strong>PGM Output</strong></td>
<td>2 x 100 mA solid state and 2 x 100 mA open collector (+/- trigger)</td>
<td>3 on-board PGMs (all +/- trigger)</td>
<td>2 x 100 mA open collector and 2 x 100 mA solid state (+/- trigger)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-10 to 55 °C (14 to 131 °F)</td>
<td>0 to 50 °C (32 to 122 °F)</td>
<td>0 to 50 °C (32 to 122 °F)</td>
</tr>
<tr>
<td><strong>Metal Box</strong></td>
<td>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</td>
<td>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</td>
<td>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</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>8.9 x 19 x 2.5 cm (3.5 x 7.5 x 1 in.)</td>
<td>6.6 x 14 x 2.5 cm (2.6 x 5.5 x 1 in.)</td>
<td>10.8 x 20.3 x 2.5 cm (4.3 x 8 x 1 in.)</td>
</tr>
</tbody>
</table>

▲ = included feature
*any of which can be wireless **optional
### 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)
  - **Certifications**: EN 50131 GRADE 3, EN 45011 SYSTEM 5, EN 50130-5 CLASS II

### 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 upgradeable 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 upgradeable via 307USB

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>K32LCD+ Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>12 to 14 Vdc</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>Typical: 43mA</td>
</tr>
<tr>
<td></td>
<td>Maximum: 86mA</td>
</tr>
<tr>
<td>Keypad Zone Input</td>
<td>1</td>
</tr>
<tr>
<td>Connections</td>
<td>4-wire expansion bus</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10 to 55 °C (14 to 131 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12.6 x 15 x 2.7 cm (5 x 5.9 x 1.1 in.)</td>
</tr>
</tbody>
</table>

K35
Wired Fixed LCD Keypad

Features

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

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>K35 Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>12 to 14 Vdc</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>Typical: 38mA</td>
</tr>
<tr>
<td></td>
<td>Maximum: 103mA</td>
</tr>
<tr>
<td>Keypad Zone Input</td>
<td>1</td>
</tr>
<tr>
<td>Connections</td>
<td>4-wire expansion bus</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 50 °C (32 to 122 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12.3 x 14.4 x 3.2 cm (4.9 x 5.7 x 1.3 in.)</td>
</tr>
</tbody>
</table>
SPECTRA Keypads

LCD

K37
Wireless Fixed LCD Keypad

Features

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

Specifications

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

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

<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>Primary Power: 6 Vdc (300 mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Backup Power: 3.7 Vdc Li-ion rechargeable</td>
</tr>
<tr>
<td>RF Frequency</td>
<td>433 or 868 MHz</td>
</tr>
<tr>
<td>Battery Life</td>
<td>Up to 48 hours</td>
</tr>
<tr>
<td>Wireless Range</td>
<td>40m (130 ft) typical in residential environment</td>
</tr>
<tr>
<td>Connections</td>
<td>4-wire expansion bus</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 50 °C (32 to 122 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12.2 x 14.7 x 3.4 cm (4.8 x 5.8 x 1.3 in.)</td>
</tr>
</tbody>
</table>
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 upgradeable via 307USB

Specifications
- Input Voltage: 12 to 14 Vdc
- Current Consumption: Typical: 18mA
- Keypad Zone Input: 1
- Operating Temperature: -10 to 55 ºC (14 to 131 ºF)
- Dimensions: 9.6 x 13.5 x 3.2 cm (3.8 x 5.3 x 1.3 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
- Keypad Zone Input: 1
- Operating Temperature: -10 to 55 ºC (14 to 131 ºF)
- 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.)

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
- PGM Output: 1 (follows arm status)
- Operating Temperature: 0 to 50 ºC (32 to 122 ºF)
- Dimensions: 14.3 x 7.8 x 2.3 cm (5.6 x 3.1 x 0.9 in.)

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 ºC (-4 to 122 ºF)
- Dimensions: 14 x 4.5 x 1.8 cm (5.5 x 1.8 x 0.7 in.)
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, and G550
  - RF jamming supervision
  - Low battery, tamper, and check-in supervision for transmitters
  - Transmitter signal strength display
  - 2 PGM outputs
  - In-field firmware upgradeable via 307USB

SPECTRA Zone Expanders

RPT1
Wireless Repeater Module

- Features
  - Extends the range of wireless communications
  - Built-in transceiver
  - Supports all MAGELLAN transmitters (including two-way)
  - Selects which zone, PGM and / or keypad signals are repeated
  - Signal strength display
  - RF jamming supervision
  - Fully supervised by panel or console
  - 1 programmable 5A relay output
  - Universal input (N.O. / N.C.)
  - In-field firmware upgradeable 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 26 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:

<table>
<thead>
<tr>
<th>ZX8</th>
<th>8-Zone Expansion Module</th>
<th>Refer to page 13</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUB2</td>
<td>2-Port Hub and Bus Isolator</td>
<td>Refer to page 17</td>
</tr>
<tr>
<td>RTX3</td>
<td>Wireless Expansion Module</td>
<td>Refer to page 15</td>
</tr>
</tbody>
</table>

SPECTRA Special Modules

RX1
Wireless Receiver

For full details on:

| PGM4           | 4-Output Expansion Module | Refer to page 17 |

25
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

#### Control Panels

<table>
<thead>
<tr>
<th>Panel Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG5000</td>
<td>2 to 32-Zone Wireless Transceiver Control Panel</td>
</tr>
<tr>
<td>MG5050</td>
<td>5 to 32 Zone Wireless Transceiver Control Panel</td>
</tr>
</tbody>
</table>

#### All-in-one Console

<table>
<thead>
<tr>
<th>Console Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG6250</td>
<td>2-Partition 64-Zone Wireless Console with GPRS / GSM</td>
</tr>
</tbody>
</table>

#### Expansion Modules

<table>
<thead>
<tr>
<th>Module Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZX8SP</td>
<td>8-Zone Expansion Module</td>
</tr>
<tr>
<td>ZX8</td>
<td>8-Zone Expansion Module</td>
</tr>
<tr>
<td>PGM4</td>
<td>4 PGM Expansion Module</td>
</tr>
</tbody>
</table>

#### Communicator Modules

<table>
<thead>
<tr>
<th>Module Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCS260 / 65</td>
<td>4G / 3G / 2G / GSM Communicator Module</td>
</tr>
<tr>
<td>PCS250 / G</td>
<td>GPRS / GSM Communicator Module</td>
</tr>
<tr>
<td>IP150</td>
<td>IP Communicator</td>
</tr>
<tr>
<td>VDMP3</td>
<td>Plug-in Voice Module</td>
</tr>
</tbody>
</table>

#### Software & Accessories

<table>
<thead>
<tr>
<th>Accessory Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMC5</td>
<td>Memory Key</td>
</tr>
<tr>
<td>307USB</td>
<td>Direct Connect Interface</td>
</tr>
<tr>
<td>BabyWare</td>
<td>PC Software</td>
</tr>
<tr>
<td>HUB2</td>
<td>2 Port HUB</td>
</tr>
<tr>
<td>ipParadox</td>
<td>Alarm System Control App</td>
</tr>
<tr>
<td>InField</td>
<td>Firmware Upgrade</td>
</tr>
</tbody>
</table>

#### Wired Keypads

<table>
<thead>
<tr>
<th>Keypad Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM50</td>
<td>Intuitive Touchscreen</td>
</tr>
<tr>
<td>K32LCD+</td>
<td>32-Character Wired LCD Keypad Module</td>
</tr>
<tr>
<td>K32</td>
<td>32-Zone Wired LED Keypad Module</td>
</tr>
<tr>
<td>K10V</td>
<td>10-Zone Wired LED Keypad Module</td>
</tr>
<tr>
<td>K10H</td>
<td>10-Zone Wired LED Keypad Module</td>
</tr>
</tbody>
</table>

#### Wireless Devices

<table>
<thead>
<tr>
<th>Device Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>NV75MR</td>
<td>Wireless 16M Dual Mironel Optics Pet Immune Anti-Mask Detector</td>
</tr>
<tr>
<td>NV780MR</td>
<td>Wireless Dual Side-View Outdoor Detectors with Anti-Masking and Pet Immunity</td>
</tr>
<tr>
<td>PDM85</td>
<td>Wireless Outdoor Digital Dual Optic High-Performance PIR</td>
</tr>
<tr>
<td>PDM75</td>
<td>Wireless Digital Dual-Optic High-Performance PIR</td>
</tr>
<tr>
<td>PMD2P</td>
<td>Wireless PIR Motion Detector with Built-in Pet Immunity</td>
</tr>
<tr>
<td>DCT10</td>
<td>Wireless 2-Zone Long-Range Door Contact</td>
</tr>
<tr>
<td>DCTXP2</td>
<td>Wireless 2-Zone Door Contact</td>
</tr>
<tr>
<td>DCT2</td>
<td>Wireless Ultra-Small Door Contact</td>
</tr>
<tr>
<td>G550</td>
<td>Wireless Glass Break Detector</td>
</tr>
<tr>
<td>GS250</td>
<td>Gpower Wireless Multi-axis Detector</td>
</tr>
<tr>
<td>SD360</td>
<td>Wireless Ceiling-Mounted Smoke Detector</td>
</tr>
<tr>
<td>SR130</td>
<td>Wireless Outdoor Siren with Built-in Strobe Light</td>
</tr>
<tr>
<td>SR150</td>
<td>Wireless Outdoor Siren with Built-in Strobe Light</td>
</tr>
<tr>
<td>RPT1</td>
<td>Wireless Repeater Module</td>
</tr>
<tr>
<td>2WPMG</td>
<td>2-Way Wireless PGM</td>
</tr>
</tbody>
</table>

*non-applicable for the MG6250*
### MAGELLAN
Control Panels Comparison

### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>MG5000</th>
<th>MG5050</th>
<th>MG6250</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Built-In Transceiver</strong></td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
</tr>
<tr>
<td><strong>Supported Zones</strong>*</td>
<td>32, 2 on-board (4 with ATZ)</td>
<td>32, 5 on-board (10 with ATZ)</td>
<td>64, 2 on-board (I/O)</td>
</tr>
<tr>
<td><strong>Keypad Zones</strong></td>
<td>15</td>
<td>15</td>
<td>-</td>
</tr>
<tr>
<td><strong>Partitions</strong></td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Users / Remote Controls</strong></td>
<td>32</td>
<td>32</td>
<td>16</td>
</tr>
<tr>
<td><strong>PGMs</strong></td>
<td>16* maximum (2 on-board)</td>
<td>16* maximum (4 on-board)</td>
<td>8* maximum (2 on-board I/O)</td>
</tr>
<tr>
<td><strong>Events Buffered</strong></td>
<td>256</td>
<td>256</td>
<td>256</td>
</tr>
<tr>
<td><strong>Wireless Repeaters</strong></td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td><strong>Siren</strong></td>
<td>Wired / Wireless</td>
<td>Wired / Wireless</td>
<td>Built-in 90 db siren / Wireless</td>
</tr>
<tr>
<td><strong>Wireless Sirens</strong></td>
<td>4 (SR130 / SR150)</td>
<td>4 (SR130 / SR150)</td>
<td>4 (SR130 / SR150)</td>
</tr>
<tr>
<td><strong>Wireless Keypads</strong></td>
<td>4 (K32RF / K37)</td>
<td>4 (K32RF / K37)</td>
<td>4 (K32RF / K37)</td>
</tr>
<tr>
<td><strong>Expansion Bus</strong></td>
<td>▲</td>
<td>▲</td>
<td>-</td>
</tr>
<tr>
<td><strong>GPRS / GSM Module (PCS Series)</strong></td>
<td>▲</td>
<td>▲</td>
<td>(plug-in)</td>
</tr>
<tr>
<td><strong>Internet Module (IP150)</strong></td>
<td>▲</td>
<td>▲</td>
<td>-</td>
</tr>
<tr>
<td><strong>Voice and Utility Reporting &amp; User Menus</strong></td>
<td>VDMP3</td>
<td>VDMP3</td>
<td>Built-in</td>
</tr>
<tr>
<td><strong>Personal Dialing</strong></td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
</tr>
<tr>
<td><strong>Two-Way Voice Communication</strong></td>
<td>-</td>
<td>-</td>
<td>▲</td>
</tr>
<tr>
<td><strong>In-Field Firmware Upgrade</strong></td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
</tr>
<tr>
<td><strong>RF Jamming Supervision</strong></td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
</tr>
</tbody>
</table>

### Consumer Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>MG5000</th>
<th>MG5050</th>
<th>MG6250</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hands-free Speakerphone</strong></td>
<td>-</td>
<td>-</td>
<td>▲</td>
</tr>
<tr>
<td><strong>High-quality Voice and Sound</strong></td>
<td>-</td>
<td>-</td>
<td>▲</td>
</tr>
<tr>
<td><strong>Family Message Center</strong></td>
<td>-</td>
<td>-</td>
<td>▲</td>
</tr>
<tr>
<td><strong>Alarm Clock</strong></td>
<td>-</td>
<td>-</td>
<td>▲</td>
</tr>
</tbody>
</table>

▲ = included feature  
*any of which can be wireless
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>MG5000</th>
<th>MG5050</th>
<th>MG6250</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Voltage</strong></td>
<td>16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)</td>
<td>16.5 Vac (50 or 60 Hz) minimum 20 VA (40 VA recommended)</td>
<td>7.5 Vdc (PA7 Power Adapter Plug)</td>
</tr>
<tr>
<td><strong>Auxiliary Current</strong></td>
<td>700 mA maximum, fuseless shutdown at 1.1A</td>
<td>700 mA maximum, fuseless shutdown at 1.1A</td>
<td>-</td>
</tr>
<tr>
<td><strong>RF Frequency</strong></td>
<td>433 or 868 MHz</td>
<td>433 or 868 MHz</td>
<td>433 or 868 MHz</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>12 Vdc, 4Ah / 7Ah</td>
<td>12 Vdc, 4Ah / 7Ah</td>
<td>Pack: 4.8V NiMH, rechargeable</td>
</tr>
<tr>
<td><strong>Battery Charging Current</strong></td>
<td>350 mA or 700 mA</td>
<td>350 mA or 700 mA</td>
<td>-</td>
</tr>
<tr>
<td><strong>PGM Output</strong></td>
<td>2 x 100 mA open-collector</td>
<td>3 x 100 mA open-collector and 1 x 100 mA solid state</td>
<td>2 x 50 mA open-collector</td>
</tr>
<tr>
<td><strong>Bell Output</strong></td>
<td>1A (fuseless shutdown at 3A)</td>
<td>1A (fuseless shutdown at 3A)</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0 to 50 °C (32 to 122 °F)</td>
<td>0 to 50 °C (32 to 122 °F)</td>
<td>0 to 40 °C (32 to 104 °F)</td>
</tr>
<tr>
<td><strong>Metal Box</strong></td>
<td>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.)</td>
<td>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.)</td>
<td>-</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>14 x 10.4 x 3 cm (5.5 x 4.1 x 1.2 in.)</td>
<td>19 x 10 x 3 cm (7.5 x 4 x 1.2 in.)</td>
<td>24.6 x 14 x 3.9 cm (9.7 x 5.5 x 1.5 in.)</td>
</tr>
</tbody>
</table>

### Special Feature | Certification

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[EN 50131] GRADE 2</td>
<td></td>
<td>[EN 45011] SYSTEM 5</td>
</tr>
</tbody>
</table>

For full details on:

- **PGM4** 4-Output Expansion Module
  - Refer to page 17
- **K35** Wired Fixed LCD Keypad
  - Refer to page 22
- **K636** Wired LED Keypad
  - Refer to page 24
- **HUB2** 2-Port Hub and Bus Isolator
  - Refer to page 17
- **K32RF** Wireless LED Keypad Module
  - Refer to page 23
- **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 23
- **RPT1** Wireless Repeater Module
  - Refer to page 26
- **TM50** Wired Touchscreen Keypad
  - Refer to page 21
- **K10V / K10H** Wired LED Keypad
  - Refer to page 24
- **K32LCD+** Wired LCD Keypad
  - Refer to page 22
- **K32+** Wired LED Keypad
  - Refer to page 24
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 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.)

MAGELLAN Special Modules

2WPGM
2-Way Wireless PGM

- Features
  - 1 programmable, 5A relay output
  - Activation events
  - Activates / Deactivates 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.)
## Specifications

<table>
<thead>
<tr>
<th>REM1</th>
<th>REM101</th>
<th>REM15</th>
<th>REM25</th>
<th>REM2</th>
<th>REM3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RF Frequency</strong></td>
<td>433 or 868 MHz</td>
<td>433 or 868 MHz</td>
<td>433 or 868 MHz</td>
<td>433 or 868 MHz</td>
<td>433 or 868 MHz</td>
</tr>
<tr>
<td><strong>Battery Type</strong></td>
<td>1 x 3V lithium battery (CR2032)</td>
<td>1 x 3V lithium battery (CR2032)</td>
<td>1 x 3V lithium battery (CR2032)</td>
<td>1 x 3V lithium battery (CR2032)</td>
<td>1 x 3V lithium battery (CR2032)</td>
</tr>
<tr>
<td><strong>Wireless Range for Typical Residential Environment</strong></td>
<td>30m (100 ft) to 45m (150 ft)</td>
<td>30m (100 ft) to 45m (150 ft)</td>
<td>30m (100 ft) to 45m (150 ft)</td>
<td>30m (100 ft) to 45m (150 ft)</td>
<td>30m (100 ft) to 45m (150 ft)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>5 to 90%</td>
<td>5 to 90%</td>
<td>5 to 90%</td>
<td>5 to 90%</td>
<td>5 to 90%</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-10 to 55 °C (14 to 131 °F)</td>
<td>-10 to 55 °C (14 to 131 °F)</td>
<td>-10 to 55 °C (14 to 131 °F)</td>
<td>-10 to 55 °C (14 to 131 °F)</td>
<td>-10 to 55 °C (14 to 131 °F)</td>
</tr>
<tr>
<td><strong>Dimensions / Weight</strong></td>
<td>6 x 4.3 x 2 cm (2.3 x 1.7 x 0.8 in.) / 30g (1.05 oz)</td>
<td>5.1 x 3.2 x 1.3 cm (2.0 x 1.2 x 0.5 in.) / 16g (0.5 oz)</td>
<td>6.6 x 3.9 x 1.1 cm (2.6 x 1.5 x 0.4 in.) / 35g (1.2 oz)</td>
<td>3.9 x 7.2 x 1.2 cm (1.5 x 2.8 x 0.5 in.) / 40g (1.4 oz)</td>
<td>7.8 x 3.8 x 1.8 cm (3.1 x 1.5 x 0.7 in.) / 23.4g (0.82 oz)</td>
</tr>
<tr>
<td><strong>Special Features / Certification</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MOTION DETECTORS - PIR

#### Wireless Indoor / Outdoor

<table>
<thead>
<tr>
<th>PMD2P</th>
<th>PMD75</th>
<th>NV75MR</th>
<th>PMD85</th>
<th>NV35MR</th>
<th>NV780MR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Page Reference</strong></td>
<td>See page 33</td>
<td>See page 33</td>
<td>See page 34</td>
<td>See page 35</td>
<td>See page 35</td>
</tr>
<tr>
<td><strong>Indoor / Outdoor</strong></td>
<td>Indoor</td>
<td>Indoor</td>
<td>Indoor</td>
<td>Outdoor</td>
<td>Indoor / Outdoor</td>
</tr>
<tr>
<td><strong>Sensor</strong></td>
<td>Dual Element</td>
<td>2x Dual Element</td>
<td>2 x Dual Element</td>
<td>2x Dual Element</td>
<td>2x Dual Element</td>
</tr>
<tr>
<td><strong>Detection Range</strong></td>
<td>11 x 11m (36 x 36 ft);</td>
<td>11 x 11m (36 x 36 ft);</td>
<td>16m (52 ft)</td>
<td>11 x 11m (36 x 36 ft);</td>
<td>2 x 3m to 12m (9.8 to 39 ft)</td>
</tr>
<tr>
<td><strong>Pet Immunity</strong></td>
<td>Pet Tolerance up to 18 kg (40 lb)</td>
<td>Up to 40 kg (90 lb)</td>
<td>Up to 50 cm</td>
<td>Up to 40 kg (90 lb)</td>
<td>50 cm</td>
</tr>
<tr>
<td><strong>Digital Detection</strong></td>
<td>-</td>
<td>▲</td>
<td>▲</td>
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</tr>
<tr>
<td><strong>Auto Temperature Compensation</strong></td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
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<tr>
<td><strong>Dual Edge Processing</strong></td>
<td>-</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>-</td>
</tr>
<tr>
<td><strong>Operating Temp.</strong></td>
<td>0 to 50 °C (32 to 122 °F)</td>
<td>0 to 50 °C (32 to 122 °F)</td>
<td>-35 to 50°C (-31 to 122° F)</td>
<td>-35 to 50°C (-31 to 122° F)</td>
<td>-35 to 60°C (-31 to 140°F)</td>
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<tr>
<td><strong>Battery Type / Life</strong></td>
<td>3xAAA, 2 years</td>
<td>3xAAA, 2 years</td>
<td>2xAA, 3 years</td>
<td>3xAA, 3 years</td>
<td>2xAA, 3 years</td>
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▲ = included feature
### Wired Indoor / Outdoor

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<th>DG85</th>
<th>NV35M</th>
<th>NV780MX</th>
<th>NVX80</th>
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<td>See page 42</td>
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<td>See page 12</td>
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<tr>
<td><strong>Indoor / Outdoor</strong></td>
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<td>Indoor / Outdoor</td>
<td>Indoor / Outdoor</td>
<td>Indoor / Outdoor</td>
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<tr>
<td><strong>Sensor</strong></td>
<td>2x Dual Element</td>
<td>2x Dual Element</td>
<td>4x Dual Element</td>
<td>8 Independent PIR Anti-Mask and Microwave sensors channels</td>
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<tr>
<td><strong>Detection Range</strong></td>
<td>11 x 11m (36 x 36 ft)</td>
<td>Pet: 7.5m x 2m (25 x 7 ft)</td>
<td>2 x 3m to 12m (9.8 to 39 ft)</td>
<td>17 x 15m (56 x 49 ft)</td>
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<tr>
<td><strong>Pet Immunity</strong></td>
<td>Up to 40 kg (90 lb)</td>
<td>50 cm</td>
<td>Up to 40 kg (90 lb)</td>
<td>Up to 20 kg (44 lb)</td>
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</tr>
<tr>
<td><strong>Auto Temperature Compensation</strong></td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
</tr>
<tr>
<td><strong>Alarm Output</strong></td>
<td>2x Solid State, N.C, 150 mA</td>
<td>2x Solid State, N.C, 150 mA</td>
<td>2x Solid State, N.C, 150 mA</td>
<td>Form C relay, N.C. and N.O., 1A 24 Vdc</td>
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<td><strong>Anti-Masking</strong></td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<tr>
<td><strong>EVO Bus</strong></td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-40 to 70 °C (-40 to 158 °F)</td>
<td>-35 to 60 °C (-31 to 140 °F)</td>
<td>-35 to 60 °C (-31 to 140 °F)</td>
<td>-25 to 70 °C (-13 to 158 °F)</td>
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<td><img src="image" alt="EN 50130-5 CLASS II" /></td>
<td><img src="image" alt="EN 45011 SYSTEM 5" /></td>
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▲ = included feature

*Compatible only with EVO Control Panels*

### Wired Indoor

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<th>NV75M</th>
<th>NV5</th>
<th>DG55+</th>
<th>DG65+</th>
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<th>DM50*</th>
<th>DM60*</th>
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<td><strong>Page Reference</strong></td>
<td>See page 38</td>
<td>See page 41</td>
<td>See page 39</td>
<td>See page 39</td>
<td>See page 40</td>
<td>See page 08</td>
<td>See page 08</td>
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<tr>
<td><strong>Sensor</strong></td>
<td>2x Dual Element</td>
<td>Dual Element</td>
<td>Dual Element</td>
<td>Quad Element</td>
<td>2x Dual Element</td>
<td>Dual Element</td>
<td>Quad Element</td>
</tr>
<tr>
<td><strong>Detection Range</strong></td>
<td>16m (52 ft)</td>
<td>10m (32.8 ft)</td>
<td>12 x 12m (40 x 40 ft)</td>
<td>12 x 12m (40 x 40 ft)</td>
<td>11 x 11m (36 x 36 ft)</td>
<td>12 x 12m (40 x 40 ft)</td>
<td>12 x 12m (40 x 40 ft)</td>
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<tr>
<td><strong>Pet Immunity</strong></td>
<td>Up to 50 cm</td>
<td>Up to 16 kg (35 lb)</td>
<td>-</td>
<td>-</td>
<td>Up to 40 kg (90 lb)</td>
<td>-</td>
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<td>▲</td>
<td>▲</td>
<td>▲</td>
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<tr>
<td><strong>Auto Temperature Compensation</strong></td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
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<td>▲</td>
<td>▲</td>
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<td>▲</td>
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<tr>
<td><strong>EVO Bus</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>▲</td>
<td>▲</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-35 to 50 °C (-31 to 122 °F)</td>
<td>-10 to 50 °C (14 to 122 °F)</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
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<td><strong>Certification</strong></td>
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<td><img src="image" alt="EN 50130-5 CLASS II" /></td>
<td><img src="image" alt="EN 45011 SYSTEM 5" /></td>
<td><img src="image" alt="EN 50130-5 CLASS I" /></td>
<td><img src="image" alt="EN 50131 GRADE 2" /></td>
<td><img src="image" alt="EN 50130-5 CLASS I" /></td>
<td><img src="image" alt="EN 45011 SYSTEM 5" /></td>
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▲ = included feature

*Compatible only with EVO Control Panels*
### Wired Indoor

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<tr>
<th></th>
<th>DM70*</th>
<th>NV75MW</th>
<th>525DM</th>
<th>DG467</th>
<th>DG466</th>
<th>476</th>
<th>476PET</th>
<th>460</th>
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<td>See page 09</td>
<td>See page 38</td>
<td>See page 40</td>
<td>See page 09</td>
<td>See page 42</td>
<td>See page 43</td>
<td>See page 43</td>
<td>See page 44</td>
</tr>
<tr>
<td><strong>Sensor</strong></td>
<td>2x Dual Element</td>
<td>2x Dual Element</td>
<td>1x MW, Dual Element</td>
<td>Dual Element</td>
<td>2x Dual Element</td>
<td>Dual Element</td>
<td>Dual Element</td>
<td>Dual Element</td>
</tr>
<tr>
<td><strong>Detection Range</strong></td>
<td>12 x 12m (40 x 40 ft)</td>
<td>11 x 11m (36 x 36 ft)</td>
<td>12 x 12m (40 x 40 ft)</td>
<td>7 x 6m (24 x 20 ft) at 2.4m / 11 x 6m (35 x 20 ft) at 3.7m</td>
<td>Curtain 4.8m (15.7 ft) directional</td>
<td>10.6 x 10.6m (35 x 35 ft)</td>
<td>11 x 11m (35 x 35 ft) and up to 15m (50 ft) for center beams</td>
<td>2.1 x 1.5 cm (7 x 5 ft) - card access applications; 6.6 x 4.5m (21 x 15 ft) - security applications</td>
</tr>
<tr>
<td><strong>Pet Immunity</strong></td>
<td>Up to 40 kg (90 lb)</td>
<td>Up to 40 kg (90 lb)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Up to 18 kg (40 lb)</td>
<td>-</td>
</tr>
<tr>
<td><strong>Digital Detection</strong></td>
<td>▲</td>
<td>-</td>
<td>▲</td>
<td>▲</td>
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<td>-</td>
<td>-</td>
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<tr>
<td><strong>Auto Temperature Compensation</strong></td>
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<td>▲</td>
<td>▲</td>
<td>▲</td>
<td>▲</td>
</tr>
<tr>
<td><strong>Alarm Output</strong></td>
<td>EVO Bus</td>
<td>EVO Bus / 2x Solid State, N.C. 150 mA</td>
<td>Solid State, N.C. 150 mA</td>
<td>28 Vdc, 0.15A, N.C.</td>
<td>100 mA / 28 Vdc, N.C.</td>
<td>28 Vdc, 0.15A, N.C.</td>
<td>28 Vdc, 0.15A, N.C.</td>
<td>28 Vdc, 0.15A, N.C. or N.O.</td>
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<tr>
<td><strong>Dual Edge Processing</strong></td>
<td>▲</td>
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<td>▲</td>
<td>▲</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>EVO Bus</strong></td>
<td>▲</td>
<td>▲</td>
<td>-</td>
<td>▲</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
<td>-35 to 50°C (-31 to 122°F)</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
<td>-20 to 50°C (-4 to 122 °F)</td>
<td>-20 to 50°C (-4 to 122 °F)</td>
<td>-20 to 50°C (-4 to 122 °F)</td>
<td>-20 to 50°C (-4 to 122 °F)</td>
<td>-10 to 50 °C (14 to 122 °F)</td>
</tr>
<tr>
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</tbody>
</table>

▲ = included feature

*Compatible only with EVO Control Panels*
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

**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.)

* Patented
Wireless Motion Detectors

**Indoor**

New!

**NV75MR**

Wireless 16M Dual Mironel Optics Pet Immune Anti-Mask Detector

- **Features**
  - 16 meter Dual Mironel detectors
  - Active Anti-mask IR detection
  - Wireless internal frequency selection
  - Mechanical activation Creep Zone
  - Dual / Single Edge operation
  - Dual Tamper (cover and wall)
  - Wall or corner mount
  - Optional bracket (HDB7)

- **Specifications**
  - Detection Range: 16m (52 ft); 90º
  - Pet Immunity: Up to 50 cm
  - Power: 2 x AA Alkaline batteries
  - RF Frequency: 433 or 868 MHz
  - Battery Life: Up to 3 years for typical use
  - Dimensions: 12.8 x 6.2 x 5.4 cm (5.1 x 2.4 x 2.1 in.)

Wireless Motion Detectors

**Outdoor**

New!

**NV780MR**

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

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

- **Specifications**
  - Detection Range: 2 x 3m to 12m (9.8 to 39 ft) at 2.5m height
  - Pet Immunity: Up to 40 kg (90 lb)
  - Power: 3x AA alkaline battery
  - RF Frequency: 433 or 868 MHz
  - Battery Life: 3 years
  - IP Rating: IP54
  - Operating Temperature: -35 to 50°C (-31 to 122°F)
  - Dimensions: 21 x 11 x 7 cm (8.2 x 4.3 x 2.7 in.)
**NV35MR**

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

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

- **Specifications**
  - Detection Range: Super Pet Immunity Mode: 7.5 x 2m (25 x 7 ft)
    - Sharp Mode (Pet Immunity off): 10 x 2m (33 x 7 ft)
  - Pet Immunity: Pet size approximately 50 cm
  - Power: 2 x AA Alkaline batteries
  - RF Frequency: 433 or 868 MHz
  - Battery Life: Up to 3 years for typical use
  - IP Rating: IP54
  - Operating Temperature: -35 to 60°C (-31 to 140°F)
  - Dimensions: 12.3 x 6.1 x 4.3 cm (4.8 x 2.4 x 1.7 in.)

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**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 (38 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.)

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*Patented*
### Wireless Perimeter Detectors

#### Glass Break Detector

**G550**

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

---

#### 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.)

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#### 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: 3/3 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 2.6 x 6.4 cm (6.3 x 1.1 x 2.5 in.)

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**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.)
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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>3 Vac, 2 x AAA alkaline batteries</td>
</tr>
<tr>
<td>RF Frequency</td>
<td>433 or 868 MHz</td>
</tr>
<tr>
<td>Battery Life</td>
<td>Between 1 and 5 years</td>
</tr>
<tr>
<td>Wireless Range</td>
<td>20m (65 ft) with MG6250</td>
</tr>
<tr>
<td></td>
<td>40m (130 ft) with MG5000 / MG5050 / RTX3; in a typical residential environment</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10 to 55 °C (14 to 131 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>4.3 x 3 x 1.8 cm (1.7 x 1.2 x 0.7 in.)</td>
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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

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

SD360
Wireless Ceiling-Mount Smoke Detector (Everday)

Features

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

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection Type</td>
<td>Photoelectric Chamber</td>
</tr>
<tr>
<td>Power</td>
<td>3V lithium battery, Duracell or Panasonic CR123A (3 Vdc)</td>
</tr>
<tr>
<td>RF Frequency</td>
<td>433 or 868 MHz</td>
</tr>
<tr>
<td>Battery Life</td>
<td>3 years</td>
</tr>
<tr>
<td>Alarm Level / Sensitivity</td>
<td>1.38 to 2.36%/ft</td>
</tr>
<tr>
<td>Standby Current</td>
<td>25 uA</td>
</tr>
<tr>
<td>Alarm Sound Level</td>
<td>85 dB at 10 ft</td>
</tr>
<tr>
<td>Humidity</td>
<td>10 ~ 85%</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 49 °C (32 to 120 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12 cm diameter x 5 cm depth (4.7 x 0.2 in.)</td>
</tr>
</tbody>
</table>

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

New!

**NV75M / MX / MW**
16M Dual Mironel Optics Pet Immune Anti-Mask Detector

- **Features**
  - 16 meter Dual Mironel detectors
  - Active Anti-Mask IR detection
  - Mechanical activation Creep Zone
  - Dual / Single Edge operation
  - Dual Tamper (cover and wall)
  - Wall or corner mount
  - Optional bracket (HDB7)

- **Features specific to NV75MX**
  - Clean Lens notice
  - EVO bus connection

- **Feature specific to NV75MW**
  - 12 meter SeeTrue range

- **Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection Range</td>
<td>16m (52 ft); 90°</td>
</tr>
<tr>
<td>Pet Immunity</td>
<td>Up to 50 cm</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>12 to 15 Vdc</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>23 mA</td>
</tr>
<tr>
<td>Alarm Output</td>
<td>2x Solid State, N.C. 150 mA</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-35 to 50° C (-31 to 122°F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12.8 x 6.2 x 5.4 cm (5.1 x 2.4 x 2.1 in.)</td>
</tr>
</tbody>
</table>

For full details on Wired Indoor / Outdoor Motion Detectors:

- **NVX80** Powerful Motion Detector with MW Anti-Mask and SeeTrue™ Technology for Outdoor / Indoor Use
  - Refer to page 12

- **NV780MX** Dual Side-View Outdoor Detector
  - Refer to page 10

- **DG85** Outdoor Digital Motion Detector with Pet Immunity
  - Refer to page 11

- **DG457** Glass Break Detector
  - Refer to page 12
**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.)

**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.)
Wired Motion Detectors
Digital Indoor

**DG75+**
Two Dual Element Digital PIR Motion Detector with Pet Immunity

- 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

**Features**

**Specifications**

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

* Patented

**525DM**
Dual Technology Digital Motion Detector with Dynamic Proximity Detection

- 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

**Features**

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection Range</td>
<td>12 x 12m (40 x 40 ft); 90°</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>10 to 16 Vdc</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>Typical: 30 mA</td>
</tr>
<tr>
<td>Microwave Frequency</td>
<td>10.525 GHz</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>6.6 x 12.7 x 5.6 cm (2.6 x 5 x 2.2 in.)</td>
</tr>
</tbody>
</table>
Wired Motion Detectors
Digital Indoor

NV5
Digital PIR Motion Detector with Pet Tolerance

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

- **Specifications**

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

* Patented
Wired Motion Detectors

Outdoor

### NV35M
Outdoor / Indoor Window and Sliding Door Dual Detector with Anti-Masking and Pet Immunity

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

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

### 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 4.8 m (2.2 ft x 16 ft) and 60 cm x 4.8 m (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.)
**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.)

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**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.)
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**

<table>
<thead>
<tr>
<th>Detection Range</th>
<th>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)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>(12 Vdc mode) 9 to 16 Vdc (24 Vdc mode) 20 to 27 Vdc</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>Typical: 15 mA Maximum: 18 mA</td>
</tr>
<tr>
<td>Relay Output</td>
<td>N.C. or N.O.</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10 to 50 °C (14 to 122 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>11.4 x 9.2 x 3.2 cm (4.5 x 3.6 x 1.3 in.)</td>
</tr>
</tbody>
</table>

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.)

950 Safe Protector

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

**Specifications**

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

Glass Break Sensor Tester

**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.)
## 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

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>3 x C alkaline batteries (4.5 Vdc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Frequency</td>
<td>Built-in transceiver 433 or 868 MHZ</td>
</tr>
<tr>
<td>Battery Life</td>
<td>3 years (typical use)</td>
</tr>
<tr>
<td>Wireless Range</td>
<td>Typical residential environment 35m (115 ft) with all-in-one consoles 70m (230 ft) with MG5000, MG5050 and RTX3</td>
</tr>
<tr>
<td>Siren</td>
<td>100 dBA</td>
</tr>
<tr>
<td>Humidity</td>
<td>5 to 95%</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IPX4</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25º to 55º C (-13º to 131º F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>13.4 x 21.17 x 5.1 cm (5.29 x 8.34 x 2.01 in.)</td>
</tr>
</tbody>
</table>

## 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 ºC / -4 to 122 ºF)
- 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

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

- **Specifications**

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

### 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 HD78 Camera video file events (360P)
  - View live streaming of HD78 camera upon video alarm event; only if permitted by system master
  - 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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Pentium® 4, 1.4 GHz processor or faster</td>
<td></td>
</tr>
<tr>
<td>Microsoft® Windows, XP, Vista, 2000 or Windows 7 platform</td>
<td></td>
</tr>
<tr>
<td>512 MB of RAM</td>
<td></td>
</tr>
<tr>
<td>100 MB of available hard-disk space for installation and database</td>
<td></td>
</tr>
<tr>
<td>An internet connection</td>
<td></td>
</tr>
<tr>
<td>Administrative rights on the PC where you will be installing the software</td>
<td></td>
</tr>
<tr>
<td>Port-forwarding configuration (required in order to enable IP / GPRS reporting)</td>
<td></td>
</tr>
</tbody>
</table>
**Cellular Communicator Module**

**PCS250 / PCS250G**

**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**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Class</strong></td>
<td>Class 4 (2W at 850 / 900 MHz)</td>
</tr>
<tr>
<td></td>
<td>Class 2 (1W at 1800 / 1900 MHz)</td>
</tr>
<tr>
<td><strong>Antenna Bandwidth</strong></td>
<td>70 / 80 / 140 / 170 MHz</td>
</tr>
<tr>
<td><strong>Antenna Gain</strong></td>
<td>&lt;3 dBi; impedance 50 ohm</td>
</tr>
<tr>
<td></td>
<td>&lt;2W peak power</td>
</tr>
<tr>
<td><strong>Voltage Input</strong></td>
<td>12 Vdc nominal</td>
</tr>
<tr>
<td><strong>Current Consumption</strong></td>
<td>100 mA standby, average 450 mA (1.2A peak) during GPRS / GSM transmission</td>
</tr>
<tr>
<td><strong>Encryption</strong></td>
<td>128-bit (MD5 and RC4) and 256-bit (AES)</td>
</tr>
<tr>
<td><strong>SMS Protocol</strong></td>
<td>7-bit (IRA: ITU-T. 50) or 16-bit (UCS2 ISO / IEC10646)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>5 to 90%</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0 to 50 °C (32 to 122 °F)</td>
</tr>
<tr>
<td><strong>Dimensions / Weight</strong></td>
<td>17.2 x 9.8 x 4.4 cm (6.8 x 3.9 x 1.7 in.) / 200g (7.05 oz)</td>
</tr>
</tbody>
</table>

**Cellular New!**

**PCS260 / PCS265**

**4G / 3G / 2G / GSM Communicator Module**

- **Features**
  - 4G (3.75G) / 3G / 2G reporting data to IPR512 or IPRS-7 receivers
  - 3G/2G auto connect if 4G not available
  - Two SIM cards support for provider redundancy
  - Control panel communication supervision
  - Future ready for smartphone application access
  - Arm or disarm the system via text message (SMS) to the PCS260/265
  - 4-wire installation
  - Dual tamper switch (wall and cover removal)
  - Encrypted communication (128-bit AES)
  - Li-ion battery (included) allows operation when panel power is lost for backup reporting
  - RS-485 connection to panel (one CVT485 included), allows 100m / 300 ft with battery charge
  - Will report panel loss in case of cut wires or loss of power

- **Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Class</strong></td>
<td>Class 4 (2W at 850 / 1900 MHz)</td>
</tr>
<tr>
<td></td>
<td>Class 2 (1W at 1800 / 1900 MHz)</td>
</tr>
<tr>
<td><strong>Antenna Bandwidth</strong></td>
<td>5 bands, wideband</td>
</tr>
<tr>
<td><strong>Voltage Input</strong></td>
<td>12 Vdc nominal</td>
</tr>
<tr>
<td><strong>Current Consumption</strong></td>
<td>60 mA standby, 300 mA maximum</td>
</tr>
<tr>
<td><strong>Encryption</strong></td>
<td>128-bit (AES)</td>
</tr>
<tr>
<td><strong>SMS Protocol</strong></td>
<td>7-bit (GSM: 3GPP TS 23.038 / GSM03.38) or 16-bit (UCS2 ISO / IEC10646)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>0 to 90%</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-20 to 50 °C (-4 to 122 °F)</td>
</tr>
<tr>
<td><strong>Dimensions / Weight</strong></td>
<td>20.8 x 7.5 x 2 cm (8.2 x 2.9 x 0.8 in.)</td>
</tr>
</tbody>
</table>
**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 firmware upgradeable via 307USB using EVO panel

- **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.)

**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 / 250G / 260 / 265, or to the control panel’s serial port

**Cellular Converter**

**CVT485 Plug-In RS485 Converter**

- **Features**
  - Converts serial to RS485, allowing a connection of the PCS250 / 265 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.)

**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 dip 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 50130-5 CLASS II**

**EN 50131 GRADE 3**

**EN 50136 ATS 5**

**EN 45011 SYSTEM 5**

ANSI/SIA CP-01-2010
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)
  - Connects from the control panel’s serial port connector to a PC’s serial (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.)

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)
  - Connects 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 SP Series)
  - Dimensions: 6.8 x 4.2 x 2.2 cm (2.7 x 1.7 x 0.9 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.)

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

- **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.)

- **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 / MOBILE APPS

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
  - Programs 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

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)

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

For full details on:

- **InSite GOLD App**
  - Self-Monitoring Application
  - Refer to page 04

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
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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.

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