

# WIRELESS SECURITY SYSTEMS

The Magellan line of security systems and transmitters provides completely wireless security for residences and small businesses. As such, the 32-zone systems are quick and convenient to install and with their friendly menu-driven programming require practically no training whatsoever. The transceivers also feature support for 2-way wireless transmitters that allows users, for instance, to confirm the status of their system through a remote control. And with in-field upgrade capability, you can conveniently update an installed system, on-site, within minutes.

Whether you need an all-in-one security system with a stylish design and popular consumer features such as an FM radio and hands-free speakerphone, or a separate control panel providing security without the add-ons, the Magellan line is the perfect wireless security solution.

**M**  **GELLAN**  **N**<sup>™</sup>



## System Overview

| Feature                          | MG5000 | MG-6030 / MG-6130 | MG-6060 / MG-6160 |
|----------------------------------|--------|-------------------|-------------------|
| Built-in Transceiver             | ✓      | ✓                 | ✓                 |
| Wireless Zones                   | 32     | 16 / 32           | 16 / 32           |
| On-Board Hardwired Zones         | 4      | 2                 | 2                 |
| Keypad Zones                     | 15     | -                 | -                 |
| Partitions                       | 2      | -                 | -                 |
| Users/Remote Controls            | 32     | 16                | 16                |
| PGMs (Hardwired / wireless)      | 16     | 4                 | 4                 |
| On-Board PGMs                    | 3      | 2                 | 2                 |
| Events Buffered                  | 256    | 256               | 256               |
| Expansion Bus                    | ✓      | -                 | -                 |
| Two-way Voice Communication      | -      | -                 | ✓                 |
| In-Field Upgradeable             | ✓      | ✓                 | ✓                 |
| Push-button Power Reset          | ✓      | -                 | -                 |
| Built-in 90dBb siren             | -      | ✓                 | ✓                 |
| <b>Consumer Features</b>         |        |                   |                   |
| FM Radio                         | -      | -                 | ✓                 |
| Hands-free Speakerphone          | -      | -                 | ✓                 |
| Family Message Center            | -      | ✓                 | ✓                 |
| Alarm Clock                      | -      | ✓                 | ✓                 |
| Access System Menus by telephone | -      | -                 | ✓                 |
| Home Automation (X10)            | -      | -                 | ✓                 |

## All-In-One Wireless Systems



### *MG-6160* 32-Zone All-In-One Wireless Console

### *MG-6060* 16-Zone All-In-One Wireless Console

- Built-in transceiver (433MHz or 868MHz)
- FM radio
- Hands-free speakerphone
- High-quality voice and sound
- Family message center
- Alarm clock
- Voice, Utility and Pager reporting
- Two-way voice communication with monitoring station
- Access system menus remotely by telephone
- Receive system status 3 ways (LEDs, LCD and voice)
- 13.8Vdc, 200mA aux. output (MG-6160 only)
- 57.6k baud communication with WinLoad
- Wall or desktop mounting
- Home automation (X10)
- Chime zones
- 16 users and 16 remote controls
- 256 events buffered
- 2 on-board PGM outputs
- Built-in 90dB siren
- Supports Memory Key (PMC-4)

Specifications: 1A switching power supply (requires 12Vac or 16.5Vac transformer or 12-18Vdc power supply); includes 7.2V NiMH rechargeable backup battery (Paradox #0780100178); 13.8Vdc auxiliary output, 200mA max (MG-6160 only); one 100mA N.O. solid-state relay and one 50mA PGM transistor output; operating temperature 0°C to 50°C (32°F to 122°F); dimensions: 21.8cm x 14.7cm x 3.6cm (8.6in x 5.8in x 1.4in)



## MG-6130 32-Zone All-In-One Wireless Console

## MG-6030 16-Zone All-In-One Wireless Console

- Built-in transceiver (433MHz or 868MHz)
- High-quality voice and sound
- Family message center
- Alarm clock
- Voice, Utility and Pager reporting
- Receive system status 3 ways (LEDs, LCD and voice)
- 13.8Vdc, 200mA aux. output (MG-6130 only)
- 57.6k baud communication with WinLoad
- Wall or desktop mounting
- Chime zones
- 16 users and 16 remote controls
- 256 events buffered
- 2 on-board PGM outputs
- Built-in 90dB siren
- Supports Memory Key (PMC-4)

Specifications: 1A switching power supply (requires 12Vac or 16.5Vac transformer or 12-18Vdc power supply); includes 7.2V NiMH rechargeable backup battery (Paradox #0780100178); 13.8Vdc auxiliary output, 200mA max (MG-6130 only); one 100mA N.O. solid-state relay and one 50mA PGM transistor output; operating temperature 0°C to 50°C (32°F to 122°F); dimensions: 21.8cm x 14.7cm x 3.6cm (8.6in x 5.8in x 1.4in)

## Wireless Control Panel and Keypads



## MG5000

### 32-Zone Wireless Transceiver Control Panel

- Built-in transceiver (433MHz or 868MHz)
- 32 zones (any of which can be wireless)
- 2 on-board hardwired zone inputs
- 32 users and 32 remote controls
- 2 partitions
- 4-wire communication bus (connect up to 15 keypads)
- Supports up to 4 MG32LRF wireless keypads
- Supports 16 PGMs (any of which can be wireless)
- In-field firmware upgrade via 306USB and WinLoad
- Menu-driven programming
- Multiple telephone numbers: 3 for event reporting, 5 for personal dialing and 1 for pager
- Calendar with Daylight savings Time
- New Sleep arming method
- Push button power reset
- RF jamming supervision
- 9.6k baud communication with WinLoad
- 256 events buffered
- Supports Memory Key (PMC-4)
- Fits in a 20cm x 25.5cm x 7.6cm (8in x 10in x 3in) metal box or in a 28cm x 28cm x 7.6cm (11in x 11in x 3in) metal box

Specifications: 1.7A switching power supply (requires 16.5Vac, 20/40VA transformer and a 12Vdc, 4Ah/7Ah rechargeable backup battery; 700mA auxiliary output (fuseless shutdown at 1.1A); 1A bell output (fuseless shutdown at 3A); two 150mA PGM transistor outputs



## MG32LRF

### 32-Zone Wireless LED Keypad Module

- Built-in transceiver (433MHz or 868MHz)
- 32-zone LED display
- Separate Arm, Sleep, Stay and Off LEDs per partition
- Live Mode: View zone and system status live as they occur
- In-field firmware upgrade via 306USB and WinLoad
- Fully Functional: Can be used to program the MG5000
- 8 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight
- Compatible with MG5000 V1.2 or higher

Specifications: primary power source: requires 6Vdc, 300mA adapter/power supply; backup power



## MG32LED

### 32-Zone Hardwired LED Keypad Module

- 32-zone LED display
- Separate Arm, Sleep, Stay and Off LEDs per partition
- In-field firmware upgrade via 306USB and WinLoad
- 1 keypad zone input
- Independently set chime zones
- 7 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight
- Connects to 4-wire communication bus
- Compatible with MG5000

Specifications: primary power source: requires 6Vdc, 300mA adapter/power supply; backup power source: includes 3.7Vdc Li-ion rechargeable battery; stand-by power up to 48 hours; range in a typical residential environment 40m (130ft); operating temperature 0°C to 49°C (32°F to 120°F)



## MG10LEDV/H

### 10-Zone Hardwired LED Keypad Modules (vertical/horizontal)

- 10-zone LED display
- Separate Arm, Sleep, Stay and Off LEDs per partition
- Patented Key Light display (button lights up to indicate an open zone)
- 1 keypad zone input
- Independently set chime zones
- 7 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight
- Connects to 4-wire communication bus
- Compatible with MG5000



Specifications: primary power source: requires 6Vdc, 300mA adapter/power supply; backup power source: includes 3.7Vdc Li-ion rechargeable battery; stand-by power up to 48 hours; range in a typical residential environment 40m (130ft); operating temperature 0°C to 49°C (32°F to 120°F)

## Remote Controls



## MG-REM2

### Magellan 2-Way Remote Control with Backlit Buttons

- Built-in transceiver (433MHz or 868MHz)
- 2-way communication conveys system status using visual and sound feedback
- Press the Status button at any time to receive the system status
- Comprehensive tri-colour LED display (ready, arm, disarm and alarm status)
- Compact, water-resistant design with backlight for buttons
- Perform up to 6 different actions per remote control
- Wireless range in a typical residential environment:
  - 30m (100ft) with MG-6160/MG-6130
  - 45m (150ft) with MG5000

Specifications: battery life of at least 2 years, operates with one 3V lithium battery (2032)



## MG-REM1

### Magellan Remote Control with Backlit Buttons

- Water resistant, stylish clear blue plastic with backlight for buttons
- Perform up to 5 different actions
- Wireless range in a typical residential environment:
  - 30m (100ft) with MG-6160/MG-6130
  - 60m (200ft) with MG5000

Specifications: battery life of at least 2 years, operates with one 3V lithium battery (2032), available in 433MHz or 868MHz

# Wireless Motion Detectors

## Features Common to All Magellan Wireless Motion Detectors

- Patented Auto Pulse Signal Processing
- Automatic Temperature Compensation
- Alive software (alarm LED continues to display when PIR is in energy save mode without compromising battery life)
- Available in 433MHz or 868MHz
- 3-minute energy save mode after two detections within a five-minute period
- Low battery and detect LED
- Anti-tamper switch

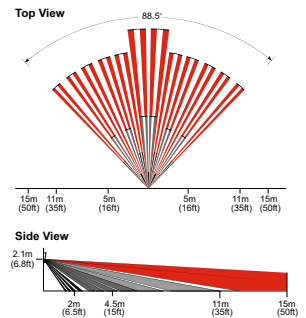


### MG-PMD1P

Analog Single-Optic PIR (18kg/40lb Pet Immunity)

- Dual element sensor
- Immune to animals weighing up to 18kg (40lb)
- 11m x 11m (35ft x 35ft) and up to 15m (50ft) for center beams with 88.5° viewing angle
- Wireless range in a typical residential environment: 35m (115ft) with MG-6160/MG-6130, 70m (230ft) with MG5000
- When a higher level of immunity is required, such as when animals are constantly in the detection area, consider using MG-PMD75

Specifications: Battery life of up to 4 years; operating temperature of 0°C to 49°C (32°F to 120°F); operates with 3 “AA” alkaline batteries

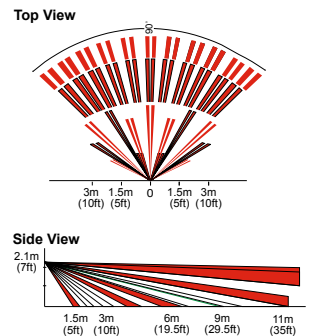


### MG-PMD75

Digital Dual-Optic High-Performance PIR (40kg/90lb True Pet Immunity)

- Digital Motion Detection
- Dual optics (2 dual opposed element sensors)
- Immune to animals weighing up to 40kg (90lb)
- Digital Dual Opposed Detection
- Digital Shield algorithm with adjustable sensitivity
- Single or Dual Edge Processing
- 11m x 11m (35ft x 35ft) with 90° viewing angle
- Wireless range in a typical residential environment: 35m (115ft) with MG-6160/MG-6130, 70m (230ft) with MG5000

Specifications: Battery life of 1.5 to 3 years; operating temperature of 0°C to 50°C (32°F to 122°F); operates with 3 “AAA” alkaline batteries



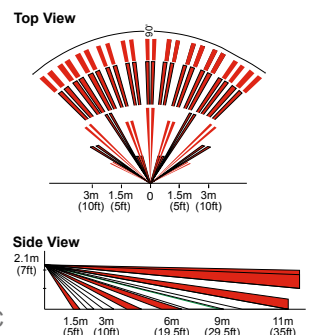
### MG-PMD85W

Outdoor Digital Dual-Optic High-Performance PIR (40kg/90lb True Pet Immunity)

Same features as the MG-PMD75 plus a special weatherproof design:

- Impact and temperature resistant casing
- Casing lined with an injected rubber gasket
- UV protected lens
- Dual Optical Filtering System
- Metal shield maximizes protection from EMI and RFI signals
- Multi-level sensitivity adjustment

Specifications: Battery life of up to 4 years; operating temperature of -35°C to +50°C (-31°F to +122°F); operates with 3 “AA” alkaline batteries



# Wireless Door Contacts



## *MG-DCT1*

### Long-Range Door Contact

- Two high-sensitivity reed switches (magnet included)
- Universal transmitter input (N.C.)
- Wireless range in a typical residential environment:  
35m (115ft) with MG-6160/MG-6130  
70m (230ft) with MG5000
- Low battery and signal transmission LED

Specifications: Battery life of up to 3 years; operates with 3 “AAA” alkaline batteries; available in 433MHz or 868MHz; anti-tamper switch; dimensions: 12.4cm x 4.5cm x 3.3cm (4.9in x 1.8in x 1.3in)



## *MG-DCTXP2*

### 2-Zone Wireless Door Contact

- 2-zone capabilities where each zone is independent and has its own serial number
- Zone 1 - One high-sensitivity reed switch (magnet included)
- Zone 2 - Universal transmitter input (N.O./N.C.)
- Wireless range in a typical residential environment:  
30m (100ft) with MG-6160/MG-6130  
60m (200ft) with MG5000
- Low battery and signal transmission LED

Specifications: Battery life of up to 3 years; operates with 2 “AAA” alkaline batteries; available in 433MHz or 868MHz; anti-tamper switch; dimensions: 11cm x 3.2cm x 2.5cm (4.4in x 1.3in x 1in)



## *MG-DCT2*

### Ultra-Small Door Contact

- One high-sensitivity reed switch (magnet included)
- Wireless range in a typical residential environment:  
20m (65ft) with MG-6160/MG-6130  
40m (130ft) with MG5000

Specifications: Battery life from 1 to 5 years; operates with one 3V lithium battery (2450); built-in strip antenna; available in 433MHz or 868MHz; anti-tamper switch; dimensions: 4.4cm x 3.0cm x 1.7cm (1.7in x 1.2in x 0.7in)



### MG-2WPGM

#### Magellan 2-Way Wireless PGM

- Built-in transceiver (433MHz or 868MHz)
- 2-way communication allows the MG-2WPGM to receive commands from the Magellan transceiver and then confirm the command
- Backup Alarm Reporting option (activates PGM output if communication between the Magellan all-in-one console and the MG-2WPGM is lost)
- 1 programmable 5A relay output
- Deactivate PGM after event or timer
- Universal transmitter input (N.O./N.C.)
- Wireless range in a typical residential environment:
  - 35m (115ft) with MG-6160/MG-6130
  - 70m (230ft) with MG5000

Specifications: Input voltage: 5Vdc - 20Vdc, 6Vac - 16.5Vac; operating temperature of 0°C to 50°C (32°F to 122°F); anti-tamper switch; dimensions: 12.5cm x 4.6cm x 2.5cm (4.9in x 1.8in x 1.0in)



### SD738

#### EVERday Smoke Detector

- One high-sensitivity photoelectric smoke sensor
- Built-in siren
- Wireless range in a typical residential environment:
  - 30m (100ft) with MG-6160/MG-6130
  - 60m (200ft) with MG5000
- Manufactured and available exclusively through EVERday Technology Co. Ltd. (Taiwan)

Specifications: Operating temperature of 0°C to 38°C (32°F to 100°F); low battery life for up to 30 days; sensitivity of  $2.35 \pm 0.85\%/ft$ ; available in 433MHz or 868MHz



### MG-RPT1

#### Magellan Wireless Repeater Module

- Built-in transceiver (433MHz or 868MHz)
- Allows to extend the range of wireless communications
- Supports all Magellan transmitters
- Select which zone, PGM and/or keypad signals are repeated
- Signal strength display
- 1 programmable 5A relay output
- Universal transmitter input (N.O./N.C.)
- Wireless range in a typical residential environment:
  - 75m (240ft) with 433MHz
  - 50m (160ft) with 868MHz
- Compatible with MG5000
- Fits in 20cm x 25.5cm x 7.6cm (8in x 10in x 3in) and 28cm x 28cm x 7.6cm (11in x 11in x 3in) metal boxes

Specifications: Input voltage: 16Vac, 20VA transformer (12Vdc, 5Ah backup battery); operating temperature of 0°C to 50°C (32°F to 122°F); dimensions: 7.6cm x 14cm (3in x 5.5in)

## System Accessories



### PMC-4

#### Hand-Held Plug-In Memory Key

- Download or upload control panel/console programming in less than 5 seconds
- Connect directly to memory connector on the control panel/console
- No need for a telephone line, PC or any other peripheral device
- Stylish clear blue plastic casing



### 306USB

#### Direct Connect Interface

- Now includes USB port
- Enables system to communicate onsite with a PC at 60m (200ft)
- Connect from system's serial port connector to PC's serial (DB-9) or USB port



### UIP-256

#### Universal In-Field Programmer

- Upgrade Magellan all-in-one consoles's firmware locally in the field
- Includes proprietary PC software, cables to interconnect a Magellan console and a PC, and two 9V batteries
- The supplied PC software retrieves the latest Magellan update file (firmware) from our website and then updates the Magellan console



### MG-SB85W

#### Heavy duty Outdoor Swivel Bracket

- For use with the MG-PMD85W and the DG85W outdoor digital PIRs
- Innovative T-joint allows for movement along 2 axes for better maneuverability and better detector positioning
- 3 in 1: ceiling, wall or corner mount bracket
- Cap lock prevents unauthorized repositioning of detector

## System Software



### UDS-2000

#### WinLoad Installer Upload/Download Software

- User-friendly programming and monitoring of Magellan systems
- Remote uploading and downloading using most standard modems at 300 baud
- On-site (local) uploading and downloading using a 306USB Direct Connect Interface (60m/200ft) or a DNE-CONV2 Converter (300m/1000ft)
- New in-field upgrading feature that allows WinLoad to upgrade the firmware of certain Magellan units via a 306USB interface or a DNE-CONV2 converter
- Multiple users, groups and databases
- Network-compatible database
- Advanced printing of event reports and zone/user programming
- Supports several languages simultaneously (available in English, Chinese, Czech, French, Hebrew, Hungarian, Italian, Polish, Portuguese, Russian, Serbo-Croatian, Slovak, Spanish, Swedish and Turkish)

System requirements: Microsoft® Windows® 98 SP2, Windows 2000, Windows XP or Windows NT®; 400MHz CPU; 128MB RAM; 250MB of free hard disk space