Paradox® Security Systems

2006 Product Catalogue

paradox.com
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The Magellan line of wireless security systems offer you a combination of high security, wireless convenience, easy installation and attractive consumer features. With the addition of the new MG5000, a 32-zone wireless control panel, as well as increasing the wireless zone capacity of the Magellan consoles from 16 zones to 32 zones, the Magellan line offers ideal protection for any residential or small commercial installation.

With their in-field upgrade capability, the Magellan line allows installers to upgrade their system without hassle - quickly, easily and on site. And to further facilitate installation, every Magellan panel can be configured using easy-to-follow menu-driven programming.

The MG5000 incorporates a new arming process, Sleep arm, which provides additional security when your family is sleeping. Choosing from three arming states, full, stay or sleep arming, the MG5000 provides security whether the user is home or away.

Magellan’s consoles (MG-6130 / MG-6160) are all-in-one wireless security systems that combine unique consumer features such as a family message center and FM radio with high quality sound, with ease of use, high security, and a designer look you may never have associated with security.

<table>
<thead>
<tr>
<th>Security Features</th>
<th>MG5000</th>
<th>MG-6030 / MG-6130</th>
<th>MG-6060 / MG-6160</th>
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<tr>
<td>• Built-in Transceiver</td>
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<tr>
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<td>• Partitions</td>
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<td>• Users</td>
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<td>• Remote Controls</td>
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<tr>
<td>• PGMs</td>
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<td>4*</td>
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<td>• Events Buffered</td>
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<tr>
<td>• Communication Bus</td>
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<td>• Voice and Utility Reporting</td>
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<td>• Personal Dialing</td>
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<tr>
<td>• Pager Reporting</td>
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<tr>
<td>• Chime Zones</td>
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<tr>
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<td>• Push-button Power Reset</td>
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<td>• Built-in 90dB siren</td>
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<td>• FM Radio</td>
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<td>• Hands-free Speakerphone</td>
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<td>-</td>
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<tr>
<td>• High-quality Voice and Sound</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>• Family Message Center</td>
<td>-</td>
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<td>✓</td>
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<tr>
<td>• Alarm Clock</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>• Access System Menus by telephone</td>
<td>-</td>
<td>-</td>
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<tr>
<td>• Home Automation</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

*= Any of which can be wireless
Wireless System Overview

MG5000
32-Zone Wireless Transceiver Control Panel
(page 5)

MG-6160
32-Zone All-In-One Wireless Console
(page 4)

MG-6130
32-Zone All-In-One Wireless Console
(page 4)

MG-PMD1P
Analog Single-Optic PIR
(18kg/40lb Pet Immunity)
(page 6)

MG-PMD75
Digital Dual-Optic High-Performance PIR (40kg/90lb True Pet Immunity)
(page 7)

MG-PMD85W
Outdoor Digital Dual-Optic High-Performance PIR (40kg/90lb True Pet Immunity)
(page 7)

SD738*
Smoke Detector
(page 8)

MG-REM1
Remote Control with Backlit Buttons
(page 6)

MG-REM2
2-Way Remote Control with Backlit Buttons
(page 6)

MG-DCT1
Long-Range Door Contact
(page 7)

MG-DCTXP2
2-Zone Wireless Door Contact
(page 7)

MG-DCT2
Ultra-small Door Contact
(page 8)

MG-2WPGM
Magellan 2-Way Wireless PGM
(page 8)

MG-6130
32-Zone All-In-One Wireless Console
(page 4)

* = Manufactured and available exclusively through EVERday Technology Co. Ltd. (Taiwan)
Magellan All-In-One Wireless Consoles

MG-6130: Magellan 32-Zone All-In-One Wireless Console
MG-6030: Magellan All-In-One Wireless Console
- MG-6130: 32 wireless zones (available Q2 2006)
- MG-6030: 16 wireless zones
- Built-in transceiver
- High-quality voice and sound
- Family message center
- Alarm clock
- Voice, Utility and Pager reporting
- Receive system status 3 ways (LEDs, LCD and voice)
- 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
- Includes 7.2V NiMH rechargeable battery pack (Paradox # 0780100178)
- Size: 21.8cm x 14.7cm x 3.6cm (8.6in x 5.8in x 1.4in)
- Available in 433MHz or 868MHz
- Supports Memory Key (PMC-4)

MG-6160: Magellan 32-Zone All-In-One Wireless Console
MG-6060: Magellan All-In-One Wireless Console
- MG-6160: 32 wireless zones (available Q2 2006)
- MG-6060: 16 wireless zones
- Built-in transceiver
- FM radio
- Hands-free speakerphone
- High-quality voice and sound
- Family message center
- Alarm clock
- Voice, Utility and Pager reporting
- Access system menus remotely by telephone
- Receive system status 3 ways (LEDs, LCD and voice)
- 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
- Includes 7.2V NiMH rechargeable battery pack (Paradox # 0780100178)
- Size: 21.8cm x 14.7cm x 3.6cm (8.6in x 5.8in x 1.4in)
- Two-way voice communication with monitoring station
- Available in 433MHz or 868MHz
- Supports Memory Key (PMC-4)
MG5000: Magellan 32-Zone Wireless Transceiver Control Panel
- Built-in transceiver
- 32 zones (any of which can be wireless)
- 2 on-board hardwire zone inputs
- Supports 16 PGMs (any of which can be wireless)
- 32 users and 32 remote controls (one per user)
- In-field upgradeable. Update the MG5000’s firmware by connecting it to a PC via a 306USB and then using our In-field Firmware Upgrade software
- Menu-driven programming for the Installer, Master and Maintenance codes
- Multiple telephone numbers for event reporting: 3 for the monitoring station, 5 for Personal Dialing and 1 for pager reporting
- Calendar with Daylight savings Time
- Centralized labeling: Program labels through the MG5000 and all connected LCD keypads will be automatically updated
- New Sleep arming method
- 4-wire communication bus (connect up to 15 keypads)
- Push button power reset
- RF Interference detection feature
- Up to 15 keypad zones
- 2 partitions
- 9.6k baud communication with WinLoad
- Chime zones
- 256 events buffered
- Available in 433MHz or 868MHz
- Supports Memory Key (PMC-4)

MG32LED: 32-Zone Hardwired LED Keypad Module
- 32-zone LED display
- Separate Armed, Sleep and Stay LEDs per partition
- 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

MG10LEDV: 10-Zone Hardwired LED Keypad Module (Vertical)
- 10-zone LED display
- Separate arm LEDs per partition
- Patented Key Light display (button lights up to indicate an open zone)
- 1 keypad zone
- 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

MG10LEDH: 10-Zone Hardwired LED Keypad Module (Horizontal)
Magellan Remote Controls

MG-REM2: Magellan 2-Way Remote Control with Backlit Buttons
- 2-way communication conveys system status using visual and sound feedback
- Press the Status button at any time to receive the system status
- Perform up to 6 different actions per remote control
- Comprehensive LED display
- Auditory feedback
- Compact, water-resistant design with backlight for buttons
- Wireless range in a typical residential environment:
  - 30m (100ft) with MG-6160 / MG-6130
  - 45m (150ft) with MG5000
- Available in 433MHz or 868MHz

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
  - 45m (150ft) with MG5000
  - 60m (200ft) with MG-RCV3
- Available in 433MHz or 868MHz

MG-RAC1: Magellan Remote Control with Integrated Access Card
- Same features as the MG-REM1 except:
  - Built-in access card. Present remote control to a reader (page 24) like an access card

Magellan 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)
- 3-minute energy save mode after two detections within a five-minute period
- Available in 433MHz or 868MHz
- 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 / MG-RCV3
- When a higher level of immunity is required, such as when animals are constantly in the detection area, consider using MG-PMD75
- See Features Common to All Magellan Wireless Motion Detectors on page 6
MG-PMD75: Digital Dual-Optic High-Performance PIR
(40kg/90lb True Pet Immunity)
• Patented 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 / MG-RCV3
• See Features Common to All Magellan Wireless
  Motion Detectors on page 6

MG-PMD85W: Outdoor Digital Dual-Optic High-Performance PIR
(40kg/90lb True Pet Immunity)
Same features as MG-PMD75 plus a special weatherproof design:
• Impact and temperature resistant casing
• Operates at -35°C to +50°C (-31°F to +122°F)
• 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

Magellan 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 / MG-RCV3
• Low battery and signal transmission LED
• 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 / MG-RCV3
• 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 / MG-RCV3
• 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)

Magellan Wireless Accessories

MG-2WPGM: Magellan 2-Way Wireless PGM
• 2-way communication allows the MG-2WPGM to receive commands from Magellan Transceivers and then confirm the command
• Backup Alarm Reporting option (activates PGM output if communication between the Magellan receiver and the MG-2WPGM is lost)
• 1 fully programmable 5A relay output
• Deactivate PGM after event or timer
• Requires an AC or DC input voltage (6Vac to 16.5Vac or 5Vdc to 20Vdc)
• 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
• Available in 433MHz or 868MHz
• Anti-tamper switch
• Dimensions: 12.5cm x 4.6cm x 2.5cm (4.9in x 1.8in x 1.0in)

SD738: Everyday 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 / MG-RCV3
• Available in 433MHz or 868MHz
• Manufactured and available exclusively through Everyday Technology Co. Ltd. (Taiwan)

306USB: Direct Connect Interface
• Now incorporates a USB port and a serial port (DB-9)
• Enables control panel to communicate with a PC at 60m (200ft)
• Connect control panel's serial port connector to a PC's serial (DB-9) or USB port
• 57.6k baud communication (Magellan and MG5000), 38.4k baud communication (EVO96) or 19.2k baud communication (DGP-848)
UIP-256 Universal In-Field Programmer

- Upgrade Magellan and Grafica firmware locally in the field
- Includes proprietary PC software, cables to interconnect a Magellan console or a Grafica keypad and a PC, and two 9V batteries
- The supplied PC software retrieves the latest Magellan or Grafica update file (firmware) from our website and then updates the Magellan console or the Grafica keypad
- Currently supports Magellan V1.10 or higher and Grafica version 1.21 or higher, but will support other Paradox products when possible in the future

PMC-4: Hand-Held Plug-in Memory Key

- The memory capacity has been doubled to support Digiplex EVO96 control panel
- 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

UDS-2000: WinLoad Installer Upload/Download Software

- User-friendly programming and monitoring of the Digiplex, Magellan and Spectra control panels and modules
- Remote uploading and downloading using most standard modems at 300 baud
- On-site (local) uploading and downloading at 57.6k baud (Magellan), 38.4k baud (EVO96) or 19.2k baud (DGP-848) using a 306USB Direct Connect Interface (60m/200ft) or a CONV3USB Converter (300m/1000ft)
- New in-field upgrading feature that allows WinLoad to upgrade the firmware of certain control panels/modules via a 306USB interface or a CONV3USB converter
- Multiple users, groups and databases
- Network compatible
- Advanced printing of reports and zone/user programming
- Supports several languages simultaneously (available in English, Spanish, Chinese, Czech, French, Hebrew, Hungarian, Italian, Polish, Portuguese, Russian, Serbo-Croatian, Slovak, Swedish and Turkish)
Esprit features a wide range of control panels with 4, 8 or 12 on-board zone input terminals and can support up to 2 keypad zones. All control panels offer the ATZ zone doubling feature that enables you to connect two detection devices to one input terminal. Each detection device occupies its own zone and communicates its status to the control panel. Depending on the control panel, the system can consist of up to 24 programmable zones that can be assigned to one or both partitions or can be assigned to neither partition to form a common area. The Esprit series offers you reliable, low-cost security that meets a host of customer needs.

**System Overview**

- 4 to 24 zones
- 2 partitions
- Compatible with the Magellan MG-RCV3 Wireless Receiver (see page 12) and Magellan MG-REM1 Remote Control with Backlit Buttons (see page 6)
- 49 user codes
- 256 events buffered
- Keypads compatible with all Esprit control panels
- Upload and download capability with Espload

### Control Panels

**728ULT:** 10-Zone Control Panel

- 4 zone inputs (8 zones with zone doubling) + 2 keypad zones
- 1 PGM output
- 1.1A switching power supply
- 2-wire smoke detector input
- Serial or parallel wiring for zone doubling connections
- Master Code Lock (cannot change or delete the Master Code or User Code 01)
- Supports pager reporting
- Closing Delinquency Timer (transmit a report when last arming exceeds timer)
- 1 supervised bell output and 1 supervised auxiliary output
- 1 supervised telephone line
- Mounted in a 20cm x 25cm x 8cm (8in x 10in x 3in) metal box

**738ULT:** 18-Zone Control Panel

- 8 zone inputs (16 zones with zone doubling) + 2 keypad zones
- 2 PGM outputs + 1 alarm relay
- 1.1A switching power supply
- 2-wire smoke detector input
- Serial or parallel wiring for zone doubling connections
- Master Code Lock (cannot change or delete the Master Code or User Code 01)
- Supports pager reporting
- Closing Delinquency Timer (transmit a report when last arming exceeds timer)
- 1 supervised bell output and 1 supervised auxiliary output
- 1 supervised telephone line
- Timed Test Transmission feature
- Mounted in a 28cm x 28cm x 8cm (11in x 11in x 3in) metal box
748+: 24-Zone Control Panel
- 12 zone inputs (24 zones with zone doubling) + 2 keypad zones (24 zones max.)
- 2 PGM outputs + 1 alarm relay
- 1.7A switching power supply
- 2 supervised auxiliary outputs
- 1 supervised bell output and 1 supervised telephone line
- Mounted in a 28cm x 28cm x 8cm (11in x 11in x 3in) metal box

Keypads

Features Common to All Keypads
- 1 keypad zone input
- Independently set chime zones
- 4 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight
- Compatible with all Esprit control panels V3.0 or higher

642BL: 32-Character Blue LCD Keypad
- 32-character blue LCD with programmable labels
- Upload/download keypad options and labels with the Memory Key (PMC-4) through its on-board memory key connector
- Supports up to 9 built-in languages (user selectable):
  - English, Spanish, Czech, French, Italian, Polish, Portuguese, Slovak and Turkish
  - English and Hebrew
  - English, Lithuanian and Russian
  - English and Greek
  - English and Hungarian
- Display time using the 12hr or 24hr format
- Adjustable contrast and scroll speed
- Multiple zone display (status of several zones on one screen without zone label)

636: 24-Zone LED Keypad (horizontal)
- 24-zone LED display
- Patented Key Light display (button lights up to indicate an open zone)
- Universal LED symbols
- Keypad rubber available in English, Spanish, French or Portuguese

646: 24-Zone LED Keypad (vertical)
- 24-zone LED display
- Patented Key Light display (button lights up to indicate an open zone)
- Universal LED symbols
- Covers single gang box
- Keypad rubber available in English, Spanish or French
System Accessories and Software

MG-RCV3: Wireless Expansion Module
- 8 remote controls to arm/disarm the system and control PGMs
- 3 PGM outputs and 1 optional output
- Noise level test and indicator
- Available in 433MHz or 868MHz
- Also functions in stand-alone mode (8 remote controls activate on-board PGMs)
- Functions with all Magellan remote controls (see page 6) except for MG-REM2

PMC-4: Hand-Held Plug-In Memory Key
- The memory capacity has been doubled to support Digiplex EVO96 control panel
- 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

ADP-1: Telephone Line Adapter
- Simulate a telephone line for on-site uploading and downloading
- Direct connection from the PC's modem to the control panel's dialer
- 300 baud communication

UDS-2000: Esplload Installer Upload/Download Software (DOS)
- User-friendly programming and live monitoring of Esprit control panels
- Remote or on-site upload/download through a modem at 300 baud
- Event display and sort event buffer for report printing
- Supports multiple languages simultaneously

ESPRIT-BD: Esprit Briefcase-Style Display
- Functional display designed to accommodate travel and flexibility
- Fits in salesperson's briefcase
- Built-in Esprit control panel
- On-board 24-zone horizontal LED keypad (636)
- 4 on-board push-button switches to represent zones
Spectra offers a combination of innovative features and an advanced communication bus for a unique expandable security system. Through its communication bus, Spectra can be expanded via wireless and hardwired expansion modules and a variety of accessory modules. With its reliable communication technology, flexible expansion and great-looking keypads, Spectra is an ideal security system for any residential or commercial installations that require up to 16 zones of protection.

<table>
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<th>1738</th>
<th>1759MG</th>
<th>1727</th>
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<tr>
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<td>Keypad Zones</td>
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<tr>
<td>Expansion Zones</td>
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<td>Maximum Zones</td>
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<td>16</td>
<td>15</td>
<td>6</td>
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<td>Built-In Wireless Receiver</td>
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<td>Partitions</td>
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<td>User Codes</td>
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<td>2-Wire Smoke Detector Input</td>
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<td>PGMs</td>
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<td>Alarm Relay</td>
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<tr>
<td>Event Buffer</td>
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<td>Compatible with Magellan MG-RCV3 (see page 17)</td>
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Control Panels

1728: 16-Zone Control Panel
- 4-wire communication bus
- 5 zone inputs (10 zones with zone doubling) + 2 keypad zones
- Up to 8 expansion zones
- 2 PGM outputs
- 1A switching power supply
- 1 supervised bell output and 1 supervised auxiliary output
- 1 supervised telephone line
- Connect modules up to 75m (250ft) using 18AWG or 22AWG
- Mounted in a 20cm x 25cm x 8cm (8in x 10in x 3in) metal box

1738: 16-Zone Control Panel
- 4-wire communication bus
- 7 zone inputs (14 zones with zone doubling) + 2 keypad zones
- Up to 8 expansion zones
- Zone 1 can be a 2-wire smoke detector input
- 2 PGM outputs and 1 optional alarm relay
- 1.5A switching power supply
- 1 supervised bell output and 1 supervised auxiliary output
- 1 supervised telephone line
- Mounted in a 20cm x 25cm x 8cm (8in x 10in x 3in) metal box

1759MG: 15-Zone Wireless Control Panel
- 4-wire communication bus
- 5 zone inputs + 2 keypad zones
- Up to 8 expansion zones
- Built-in wireless receiver supports 8 wireless zones and 8 remote controls
- Functions with all Magellan transmitters (see page 6) except for MG-REM2 and MG-2WPGM
- 2 PGM outputs and 1 alarm relay
- 1A switching power supply
- 1 supervised bell output and 1 supervised auxiliary output
- 1 supervised telephone line
- Mounted in a 20cm x 25cm x 8cm (8in x 10in x 3in) metal box
- Available in 433MHz or 868MHz

1727: 6-Zone Local Control Panel
- 4 zone inputs + 1 Fire/24Hr. Burglary zone + 1 keypad zone
- 8 user codes (no partitioning)
- 2 PGM outputs and 1 alarm relay
- 1 bell output and 1 auxiliary output
- Mounted in a 20cm x 25cm x 8cm (8in x 10in x 3in) metal box
Overview of System Modules

Features Common to All Modules
- Connect modules anywhere on the 4-wire communication bus in a star or daisy chain configuration up to 75m (250ft) using 18AWG or 22AWG
- Program modules through the communication bus using a keypad module or the WinLoad software
- Modules with an APR3- prefix feature Auto-Panel Recognition, enabling them to function with Spectra and the Digiplex series
- Modules with an SPC- prefix or without a prefix function only with Spectra

Keypad Modules

1686V: 10-Zone LED Keypad Modules (vertical)
- 10-zone LED display
- Separate arm LEDs per partition
- Patented Key Light display (button lights up to indicate an open zone)
- Available in English, Spanish, French or Portuguese (1686V only)
- 1 keypad zone
- Independently set chime zones
- 7 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight

1686H: 10-Zone LED Keypad Modules (horizontal)
- 10-zone LED display
- Separate arm LEDs per partition
- Patented Key Light display (button lights up to indicate an open zone)
- Available in English, Spanish, French or Portuguese (1686H only)
- 1 keypad zone
- Independently set chime zones
- 7 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight

1689: 16-Zone LED Keypad Module
- 16-zone LED display
- Separate arm and stay LEDs per partition
- Available in English, Spanish or French
- 1 keypad zone input
- Independently set chime zones
- 7 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight

1640: Icon LCD Keypad Module
- Icons to display the status of up to 16 zones
- Icons to display Regular, Force, Stay and Instant arming (per partition)
- Icons to display troubles, fire, tamper, bypassed zones and alarm memory
- Display time using 12hr or 24hr format
- 1 keypad zone input
- Independently set chime zones
- 7 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight and contrast
1641BL: 32-Character Blue LCD Keypad Module
- 32-character blue LCD with programmable labels
- Available in English, Spanish, Czech, Finnish, French, Hebrew, Italian, Polish, Portuguese, Russian, Serbian, Slovak, Slovene, Swedish, Turkish and Greek
- 1 keypad zone input
- 1 PGM output
- Independently set chime zones
- 7 one-touch action buttons
- 3 keypad-activated panic alarms
- Display time using the 12hr or 24hr format
- Adjustable backlight, contrast and scroll speed

Hardwired Zone Expansion Modules

SPC-ZX4 or APR3-ZX4: 4-Zone Expansion Module
- Add 4 zones
- Use zone input as an anti-tamper switch input
- Auto-Panel Recognition (APR3-ZX4 only)

SPC-ZX8 or APR3-ZX8: 8-Zone Expansion Module
- Add 8 zones
- 1 PGM output
- Use zone input as an anti-tamper switch input
- Auto-Panel Recognition (APR3-ZX8 only)

PGM Expansion Modules

APR3-PGM4: 4-PGM Expansion Module
- 4 fully programmable 5A relay outputs
- Deactivate PGM after event or timer

Special Accessory Modules

APR3-ADM2: Voice-Assisted Arm/Disarm Module
- Arm, disarm, control on-board PGM and verify system status via telephone
- Clear and concise voice prompts
- 1 PGM output
- Available in English, Spanish, Czech, French, Greek, Italian, Mandarin, Portuguese or Turkish

APR3-PRT3: Printer Module
- Automatically or manually print reports of system events via a printer and/or PC
- Parallel and serial port connectors
- Assign to any or all partitions
- 1 PGM output
- Available in English or Spanish

Available Q3 2006
**MG-RCV3:** Wireless Expansion Module
- 8 wireless zones and 8 remote controls
- Low battery, tamper and check-in supervision
- Transmitter signal strength display
- 1 PGM output and 1 optional output
- Noise level test and indicator
- Available in 433MHz or 868MHz
- Also functions in stand-alone mode (8 remote controls activate on-board PGMs)
- Functions with all Magellan transmitters (see page 6) except for MG-REM2 and MG-2WPGM

**APR3-HUB2:** Hub and Bus Isolator
- Divide the communication bus into two completely isolated outputs (if one output fails, the other will continue to function)
- One input port, 2 completely isolated output ports
- Each output port provides communications up to 75m (250ft)

**PMC-4:** Hand-Held Plug-in Memory Key
- The memory capacity has been doubled to support Digiplex EVO96 control panel
- 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

**ADP-1:** Telephone Line Adapter
- Simulate a telephone line for on-site uploading and downloading
- Direct connection from the PC's modem to the control panel's dialer
- 300 baud communication

**UDS-2000:** WinLoad Installer Upload/Download Software
- User-friendly programming and monitoring of Magellan, Spectra and Digiplex series
- Remote or on-site upload/download using most standard modems at 300 baud
- New in-field upgrading feature that allows WinLoad to upgrade the firmware of certain control panels/modules via a 306USB interface or a CONV3USB converter
- Multiple users, groups and databases
- Network compatible
- Advanced printing of event reports and zone/user programming
- Supports several languages simultaneously (available in English, Spanish, Chinese, Czech, French, Hebrew, Hungarian, Italian, Polish, Portuguese, Russian, Serbo-Croatian, Slovak, Swedish and Turkish)

**SPECTRA-BD:** Spectra Briefcase-Style Display
- Functional display designed to accommodate travel and flexibility
- Fits in salesperson's briefcase
- Built-in Spectra 1728 control panel
- On-board 10-zone vertical LED keypad (1686V)
- 1 on-board push-button switch to represent a zone
48- & 96-Zone Expandable Security & Access Control Systems

Digiplex and Digiplex EVO systems provide the highest level of protection for banks, high-security 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 the modular concept of these systems provides installers with labour-saving features that make expanding, installing and servicing these systems quick and convenient.

Expand your system by adding plug-and-play expansion modules anywhere and in any combination on the 4-wire combus. Modules are connected to the combus 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 combus modules, including motion detectors, can be programmed remotely via a keypad or the WinLoad Installer Upload/Download software.

Digiplex and Digiplex EVO also supports virtual zones in addition to its security zones and access control doors. Virtual zones can be used to automate PGM activations without occupying a security zone and without affecting the system’s security functions. Digiplex and Digiplex EVO is a logical solution to every installer’s security, access control and home automation installation needs.

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* Can be any combination of hardwire, wireless or addressable zones or modules
** With zone doubling (ATZ)
† Automate PGM activations without occupying security zones

### System Overview

- **EVO96**: 254 modules (EVO96); 95 modules (DGP-848); in any combination
- **DGP-848**: Control Panel (page 19)
- **Software**: (page 27)
- **System Accessories**: (page 26)
- **Grafica Keypad and Display Modules**: (page 20)
- **Magellan Wireless Expansion Module**: (page 23)
- **Access Control Module**: (page 24)
- **Listen-In Module and Substation**: (page 23)
- **Motion Detector Modules**: (page 21)
- **Zone Expansion Modules**: (page 22)
- **Special Accessory Modules**: (page 25)
Control Panels

DGP-848: Digiplex 48-Zone Control Panel
• 8 on-board zone inputs (16 with zone doubling) expandable to 48 zones via 4-wire combus
• 2 on-board PGM outputs (+ 1 optional bell relay and + 2 optional PGMs)
• PGM1 can be used as a 2-wire smoke input
• 1.7A switching power supply
• 1 supervised bell output and 1 supervised auxiliary output
• 1 supervised telephone line
• Connect modules up to 900m (3000ft) using 18AWG or 300m (1000ft) using 22AWG
• Mounted in a 28cm x 28cm x 7.6cm (11in x 11in x 3in) metal box

EVO96: Digiplex EVO 96-Zone Control Panel
• 8 on-board zone inputs (16 with zone doubling) expandable to 96 zones via 4-wire combus
• In-field upgradeable: Update EVO96’s firmware by connecting it to a PC via a 306USB and then using the WinLoad Installer Upload/Download software
• Automatic Daylight Savings Time feature
• 3 on-board PGM outputs
• PGM1 can be used as a 2-wire smoke input
• 1.7A switching power supply
• 1 supervised bell output and 1 supervised auxiliary output
• 1 supervised telephone line
• Push button power reset
• Auxiliary output push button: Activate or deactivate the Auxiliary output with the push of a button
• Built-in real-time clock backup battery (no DGP2-TM1 required)
• Adjustable communication speed (normal/fast) for large installations
• Connect modules up to 900m (3000ft) using 18AWG or 300m (1000ft) using 22AWG
• Mounted in a 28cm x 28cm x 7.6cm (11in x 11in x 3in) metal box

Overview of System Modules

Features Common to All Modules
• All modules support sabotage-proof protection without additional modules or EOL resistors
• Connect up to 254 (EVO96) or 95 (DGP-848) addressable modules in any combination on the 4-wire combus (star or daisy chain)
• Program any module through the combus using a keypad, the WinLoad software or the Module Broadcast feature
• Modules with an APR3- prefix feature Auto-Panel Recognition, enabling them to function with the Digiplex series or with Spectra
• Modules with a DGP2- prefix function with EVO96 or DGP-848
Keypad and Display Modules

DNE-K07: Grafica Graphic LCD Keypad Module
- View zones on up to 32 floor plans
- 1 built-in indoor temperature sensor that allows Grafica to display the temperature of the room where Grafica is located
- 1 zone/temperature input. The input can be used to connect a detection device or an external temperature sensor (DNE-TEMP. See page 28).
- Simple text- and icon-driven menus with step-by-step guidance
- Alarm clock and special reminders
- Up to 15 tunes for use with door chiming, entry delay, exit delay and more
- Supports up to 8 built-in languages in three Language Sets (user selectable):
  - LS1: English, Spanish, Czech, French, Hungarian, Italian, Portuguese and Slovak
  - LS2: English, Bulgarian, Czech, Polish, Romanian, Russian, Swedish and Greek
  - LS3: English, Dutch, Croatian and French
- Smart search functions
- Copy and paste user programming
- Assign to one or more partitions
- Independently set chime zones
- 3 one-touch panic alarms
- Adjustable backlight, contrast and volume
- Upload/download labels with Memory Key or with the Module Broadcast feature
- Available in two designer colors (silver or champagne)
- Dimensions (with door closed): 11.5cm x 17cm x 3cm (4.5in x 6.8in x 1.3in)
- 6.5cm x 6.5cm (2.6in x 2.6in) graphic LCD with a resolution of 128 x 128 pixels

DGP2-641BL: 32-Character Blue LCD Keypad Module
- 32-character blue LCD with programmable labels (via Memory Key or Module Broadcast feature)
- Available in English, Spanish, Czech, French, German, Italian, Polish, Portuguese, Swedish or Turkish. Hebrew, Russian, Hungarian and Greek will be available soon.
- Assign to one or more partitions
- 1 addressable zone and 1 PGM output
- Independently set chime zones
- 14 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight, contrast and scroll speed

DGP2-641RB: 32-Character Blue LCD Keypad Module with Integrated Card Reader
Same features as the DGP2-641BL 32-Character Blue LCD Keypad Module plus the following:
- Built-in card reader. Just present access card directly to the keypad module
- Grant access via card and/or access code
- Door contact and request for exit inputs
- Door lock output
- Programmable automatic unlocking schedule
- Door Left Open and Door Forced Open alarms
- Display time using the 12Hr or 24Hr format
DGP2-640: Icon LCD Keypad Module
- Icons to display the status of zones 1 to 16. Zones 17 to 96 are displayed through a scrolling LCD.
- Icons to display Regular, Force, Stay and Instant arming (displays only 4 partitions)
- Icons to display troubles, fire, tamper, bypassed zones and alarm memory
- Assign to one or more partitions
- Display time using 12Hr or 24Hr format
- 1 addressable zone input and 1 PGM output
- Independently set chime zones
- 14 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight and contrast

DGP2-648BL: Blue 48-Zone LED Keypad Module
- 48-zone LED display (each LED can be set to display any zone number from 1 to 96)
- 4-partition LED display (each LED can be set to display any partition from 1 to 8)
- Available in English, Spanish or French
- Assign to one or more partitions
- 1 addressable zone and 1 PGM output
- Independently set chime zones
- 14 one-touch action buttons
- 3 keypad-activated panic alarms

DGP2-ANC1B: Annunciator Module
- LED display shows the status of either partitions 1-8, zones 1-48, or zones 49-96
- 3-in-1 product (comes with three different display labels)
- Mount as a stand-alone unit or over any LCD or LED keypad module
- Stack up to three annunciators
- Assign to one or more partitions

Motion Detector Modules

DGP2-50: Dual Element Motion Detector Module
- Patented Digital Motion Detection (no analog circuitry)
- Patented Auto Pulse Signal Processing
- Digital Shield algorithm software
- Metal shield maximizes protection from EMI and RFI signals
- 12m x 12m (40ft x 40ft) range with 110° viewing angle
DGP2-60: Quad Element Motion Detector Module
- Digital Dual Opposed Detection
- Interlock Sensor Geometry (ISG)
- Patented Digital Motion Detection (no analog circuitry)
- Patented Auto Pulse Signal Processing
- Digital Shield algorithm software
- Metal shield maximizes protection from EMI and RFI signals
- 12m x 12m (40ft x 40ft) range with 110° viewing angle

DGP2-70: Digital Dual-Optic High-Performance PIR Module (40kg/90lb True Pet Immunity)
- Dual optics (2 dual opposed element sensors)
- Provides superior pet immunity using a patented combination of advanced optics and digital processing technologies
- Immune to pets weighing up to 40kg (90lb)
- Extremely reliable and false-alarm free
- Patented Digital Motion Detection (no analog circuitry)
- Patented Auto Pulse Signal Processing
- Digital Shield algorithm software
- Metal shield maximizes protection from EMI and RFI signals
- 11m x 11m (35ft x 35ft) range with 90° viewing angle

DG85W: Outdoor Digital Dual-Optic High-Performance PIR Module (40kg/90lb True Pet Immunity)
Same features as the DG75 (page 29) plus a special weatherproof design:
- Impact and temperature resistant casing
- Operates at -35°C to +50°C (-31°F to +122°F)
- 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
- Two operational modes (addressable for the Digiplex series or conventional relay operation)

Hardwired Zone Expansion Modules

DGP2-ZC1: Door Contact Module
- 1 addressable zone
- Small size: 7.4cm x 2.0cm x 3.5cm (2.9in x 0.8in x 1.2in)

DGP2-ZX1: 1-Zone Expansion Module
- 1 addressable zone (2 with ATZ zone doubling feature)
- Set a different input speed for each zone (up to 255 minutes), which is ideal for temperature monitoring applications
APR3-ZX4: 4-Zone Expansion Module
- 4 addressable zones (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

APR3-ZX8: 8-Zone Expansion Module
- 8 addressable zones (16 with ATZ zone doubling feature)
- Set a different input speed for each zone (up to 255 minutes), which is ideal for temperature monitoring applications
- 1 PGM output
- Use zone input as an anti-tamper switch input

Wireless Expansion Module
MG-RCV3: Wireless Expansion Module
- 16 addressable zones and 16 remote controls
- Low battery, tamper and check-in supervision
- Transmitter signal strength display
- 1 PGM output and 1 optional output
- Noise level test and indicator
- Available in 433MHz or 868MHz
- Also functions in stand-alone mode (8 remote controls activate on-board PGMs)
- Functions with all Magellan transmitters (see page 6) except for MG-REM2 and MG-2WPGM

Listen-In Modules
DGP-LSN4: Listen-In Module
- Two-way voice communication with monitoring station
- Continuous Recording feature: Record up to a total of 120 seconds before and after an alarm event has occurred. This recording can then be played back later by the monitoring station or user
- Connect up to four primary DGP-SUB1 substations per Listen-In Module
- Page and/or communicate with other substations
- Arm, disarm or listen to the system status or to what is happening in protected areas all via telephone
- Record and enable personalized audio labels for up to 8 partitions, 8 users and for the system
- Can be connected to a music source such as a stereo to have background music play through the substations
- Voice announcement of system status during an alarm

DGP-SUB1: Listen-In Substation
- Connects to the DGP-LSN4 Listen-In Module
- Comes with three buttons that allow the user to access functions like paging, background music and panic options
- Use the substation to communicate with the monitoring station and/or other substations
- Mute function allows you to mute the background music and certain messages while still allowing alarm messages to be broadcast
- Volume control knob lets you set each substation to your desired level
- Additional substations can be added to function as speakers to improve the broadcasting of pages, system messages and background music.
Access Control Modules

DGP-ACM11: 4-Wire Access Control Module
- In-field upgradeable: Update the DGP-ACM11’s firmware by connecting it to a PC via a 306USB and then using the WinLoad Installer Upload/Download software
- Only 4 wires to connect when used with the DGP-R910 proximity reader
- Auxiliary output push button: Activate or deactivate the Auxiliary output with the push of a button
- Connections for card reader, REX, door contact and lock output
- Automatic unlocking schedule
- Door Left Open and Door Forced Open options
- Door unlock and extended delay timers
- Grant access via card and/or access code (supports CR-R885-BL reader)
- Unlock door manually with button or PGM event
- Unlock Door On Fire Alarm option
- Safe Mode option (during a communication loss, the access control door connected to the module can grant access to up to 4 specified cards)
- Built-in 1.5A switching power supply (supervised only if used)
- Supports RS-485 and 26-bit Wiegand card readers
- Mounted in a 20cm x 25.5cm x 7.6cm (8in x 10in x 3in) metal box

DGP-R910: 4-Wire Indoor/Outdoor Proximity Reader
- Requires only 4 wires to connect when used with a 4-Wire Access Control Module V3.0 or higher (DGP-ACM11)
- In-field upgradeable: Update the DGP-R910’s firmware by connecting it to a PC via a 306USB and then using the WinLoad Installer Upload/Download software
- Adjustable red/green LED intensity and buzzer frequency
- Extreme weather-resistant design
- Up to 10cm (4in) read range with CR-R702-A access card
- Supports RS-485 output format
- Tricolor LED display
- Advanced SwiftRead Technology
- Elegant blue face light

CR-R870-A: Indoor Proximity Reader
- Indoor installation only
- Covers single gang box
- Screw terminals
- Up to 10cm (4in) read range with CR-R702-A access card
- Two status LEDs (red and green) and beeper
- Supports the 26-bit Wiegand output format

CR-R880-BL: Indoor/Outdoor Proximity Reader
CR-R885-BL: Indoor/Outdoor Proximity Reader and Keypad
CR-R885-SB: Stand-Alone Indoor/Outdoor Proximity Reader and Keypad
- Extreme weather-resistant design
- Up to 10cm (4in) read range with CR-R702-A access card
- Tricolor LED display
- Advanced SwiftRead Technology
- Elegant blue face light
- Supports the 26-bit Wiegand output format (CR-R880-BL and CR-R885-BL only)
- Embedded 12-button keypad (CR-R885-BL and CR-R885-SB only)
- Panic alarm output (CR-R885-BL and CR-R885-SB only)
- User-selectable PIN (CR-R885-BL and CR-R885-SB only)
- Keypad lockout feature (CR-R885-BL and CR-R885-SB only)
- Programmable PIN and card combinations (CR-R885-SB only)
- 1000 users (CR-R885-SB only)
CR-R890-BL: Indoor/Outdoor Extended Range Proximity Reader
- Extreme weather-resistant design
- Up to 61cm (24in) read range with CR-R702-A access card
- Automatic read-range calibration
- Supports the 26-bit Wiegand output format
- Tricolor LED display
- Advanced SwiftRead Technology
- Elegant face light

MG-WR1: Magellan Access Receiver with Wiegand Interface
- Unlock doors using a remote control
- Supports the 26-bit Wiegand output format
- Supports unlimited number of MG-REM1 Remote Controls and/or MG-RAC1 Remote Controls with Integrated Access Card (see page 6)
- Each remote control has a programmable family number and up to 5 card numbers
- Panic feature
- Control access to 2 doors with 1 interface
- Ideal for parking and condominium applications
- Available in 433MHz and 868MHz

Proximity Cards
- CR-R702-A: Clam Shell Card
- CR-R704-B: Blue Proximity Key Tag
- CR-R706-A: 2-Sided High-Gloss ISO Card
- MG-RAC1: Magellan Remote Control with Integrated Access Card

Special Accessory Modules

APR3-PGM4: 4-PGM Expansion Module
- 4 fully programmable 5A relay outputs
- Deactivate PGM after event or timer
- Pulse PGM output for fire alarms

APR3-ADM2: Voice-Assisted Arm/Disarm Module
- Arm, disarm, control on-board PGM and verify system status via telephone
- Clear and concise voice prompts
- Available in English, Spanish, Czech, French, Greek, Italian, Mandarin, Portuguese and Turkish
- 1 PGM output
APR3-PRT3: Printer Module
- Can be used as an interface between a home automation system and a EVO96 control panel
- Supports ASCII / C-BUS protocols
- 16 virtual inputs
- 30 virtual PGMs
- Automatically/manually print reports of zones/system events via a printer and/or PC
- Parallel and serial port connectors
- Assign to one or more partitions
- 1 PGM output
- Available in English or Spanish

DGP2-PS17: Power Supply Module
- 1.7A switching power supply
- Fully supervised (AC, battery, low battery and auxiliary limit)
- Selectable battery charge current (350mA/850mA)
- 1 PGM output
- Mounted in a 20cm x 25.5cm x 7.6cm (8in x 10in x 3in) metal box

DGP2-DVAC: DVACS Module
- Provides constant power, supervision as well as two-way communication between the control panel and the Subset F1/F2 modem
- On-board RJ-11 jack
- Anti-tamper switch input
- Memory Key connector
- For use in Canadian markets only

System Accessories and Software

APR3-HUB2: Hub and Bus Isolator
- Used to divide the combus into two completely isolated outputs (one output failure does not affect the other)
- To be added when over 600m (2000ft) of single or multiple combus wires are used
- Each output port can provide communications up to 900m (3000ft)

DGP2-TM1: Real-Time Plug-In Device
- Connects directly on the DGP-848
- Keeps time and date during a complete power failure
- 8-year battery life expectancy (battery included)
- Not required with EVO96

PMC-4: Hand-Held Plug-In Memory Key
- The memory capacity has been doubled to support Digiplex EVO96 control panel
- 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 incorporates a USB port and a serial port (DB-9)
- Enables control panel to communicate with a PC at 60m (200ft)
- Connect from the control panel's serial port connector to a PC's serial (DB-9) or USB port
- 57.6k baud communication (Magellan and MG5000), 38.4k baud communication (EVO96) or 19.2k baud communication (DGP-848)

CONV3USB: RS-485/RS-232 Converter Kit
- Now incorporates a USB port and a serial port (DB-9)
- Enables control panel to communicate with a PC at 300m (1000ft)
- Connect from the control panel's serial port connector to PC's serial port (DB-9) or USB port
- 38.4k baud communication (EVO96) or 19.2k baud communication (DGP-848)

UDS-2000: WinLoad Installer Upload/Download Software
- User-friendly programming and monitoring of the Digiplex, Magellan and Spectra control panels and modules
- Remote uploading and downloading using most standard modems at 300 baud
- On-site (local) uploading and downloading at 57.6k baud (Magellan), 38.4k baud (EVO96) or 19.2k baud (DGP-848) using a 306USB Direct Connect Interface (60m/200ft) or a CONV3USB Converter (300m/1000ft)
- New in-field upgrading feature that allows WinLoad to upgrade the firmware of certain control panels/modules via a 306USB interface or a CONV3USB converter
- Draw and download/upload up to 32 floor plans for Grafica (see page 20)
- Download images and tunes into Grafica (see page 20) for special events
- Multiple users, groups and databases
- Network compatible
- Advanced printing of reports and zone/user programming
- Supports several languages simultaneously (available in English, Spanish, Czech, French, Hebrew, Hungarian, Italian, Polish, Portuguese, Russian, Serbo-Croatian, Slovak, Swedish and Turkish)

NEware End-User Management Software
DNEWARE-DM (Demo Edition)
NEW-SEC (Security Edition)
NEW-ACC (Security and Access Control Edition)
- Program access codes and settings of all users in a EVO96 system
- Live system monitoring (view system and zone status and troubles) without interrupting monitoring station communication or system operation
- Draw and download/upload up to 32 floor plans for Grafica (see page 20)
- Download images and tunes into Grafica (see page 20) for special events
- Arm/disarm, bypass zones and control PGMs
- Search, sort and filter saved system events
- Generate and print customized reports
- On-site (local) uploading and downloading at 38.4k baud using a 306USB Direct Connect Interface (60m/200ft) or a CONV3USB Converter (300m/1000ft)
- Supports several languages simultaneously (available in English, Spanish, Czech, French, Hungarian, Italian, Polish, Portuguese, Russian, Slovak, and Swedish)
UIP-256 Universal In-Field Programmer
• Upgrade Magellan and Grafica firmware locally in the field
• Includes proprietary PC software, cables to interconnect a Magellan console or a
  Grafica keypad and a PC, and two 9V batteries
• The supplied PC software retrieves the latest Magellan or Grafica update file
  (firmware) from our website and then updates the Magellan console or the Grafica
  keypad
• Currently supports Magellan V1.10 or higher and Grafica version 1.21 or higher, but
  will support other Paradox products when possible in the future

DNE-TEMP: Temperature Sensor
• Connects to the Grafica’s zone/temperature input to measure the external
  temperature.
• Maximum distance from the Grafica: 30.5m (100ft)

DGP848-BD: Digiplex (DGP-848) Briefcase-Style Display
• Functional display designed to accommodate travel and flexibility
• Fits in salesperson’s briefcase
• Built in Digiplex DGP-848 control panel
• Built-in 306USB Adapter
• On-board blue LCD keypad module (DGP2-641BL)
• 2 on-board rocker switches to represent zones

EVO96-BD: EVO96 Access Briefcase-Style Display
• Functional display designed to accommodate travel and flexibility
• Fits in salesperson’s briefcase
• Built in Digiplex EVO96 control panel
• Built-in 306USB Adapter
• On-board blue LCD keypad module with integrated card reader (DGP2-641RB)
• 1 on-board push-button switch to represent REX device
• 1 on-board rocker switch to represent access door

GRAFICA-BD: Grafica Briefcase-Style Display
• Functional display designed to accommodate travel and flexibility
• Fits in salesperson’s briefcase
• Built in Digiplex EVO96 control panel
• Built-in 306USB Adapter
• On-board Grafica Graphic LCD keypad module (DNE-K07)
• 2 on-board push-button switches to represent zones
• Includes NEware Demo edition
From outdoor and pet-friendly digital motion detectors to analog motion detectors, the Paradox series of motion detectors combine advanced features and patented technologies to provide a high level of detection and false alarm prevention.

The Digigard (DG55, DG65, DG75 and DG85W), Digital Vision (525D) and Paradome DG466 line of motion detectors offer patented digital motion detection. Developed for high-security applications, this advanced circuit design performs direct analog to digital conversion of the PIR sensor’s signal using a powerful, high-speed microprocessor-based digital IC. Completely software-driven, true digital motion detection converts, amplifies and processes the sensor’s low-level signal in the digital domain without any analog circuitry (no saturation, no loss of data and no noise). This unique technology provides increased accuracy, reliability and superior false alarm immunity.

The Digigard series includes a DG85W Outdoor Digital Dual-Optic High-Performance PIR (40kg/90lb True Pet Immunity) that combines a special weatherproof design and the proven technology of our DG75 Digital Dual-Optic High-Performance PIR (40kg/90lb True Pet Immunity) to provide the same reliable protection—outdoors. With its patented optics and digital processing technologies, the world-renown Digigard DG75 is a reliable false-alarm free motion detector with unmatched pet immunity.

Our patented Auto Pulse Signal Processing transforms the signal energy to a pulse output to determine if the progression of the detected occurrence corresponds to an alarm condition. Energy from the signals are measured and stored in memory until a minimum level is reached. The processor then rejects signals that do not meet its required specifications for generating an alarm.

Whatever the application, there’s a Paradox motion detector that will suit your needs and surpass your expectations.

**Features Common to All Digital Motion Detectors**
- Patented Digital Motion Detection (see above)
- Patented Auto Pulse Signal Processing
- Digital Shield algorithm software with adjustable sensitivity
- Single or Dual Edge Processing*
- Automatic Temperature Compensation
- Metal shield maximizes protection from EMI and RFI signals*
- Solid-state relay
- Anti-tamper switch

* Except DG466 (see page 30)

**DG55:**
- **Dual Element Digital Motion Detector**
  - Dual element sensor
  - 12m x 12m (40ft x 40ft); 110° viewing angle
  - See Features Common to All Digital Motion Detectors above

**DG65:**
- **Quad Element Digital Motion Detector**
  - Digital Dual Opposed Detection
  - Interlock Sensor Geometry
  - Quad element sensor
  - 12m x 12m (40ft x 40ft); 110° viewing angle
  - See Features Common to All Digital Motion Detectors above

**DG75:**
- **Digital Dual-Optic High-Performance PIR (40kg/90lb True Pet Immunity)**
  - Extremely reliable and false-alarm free
  - Dual optics (2 dual opposed element sensors)
  - Provides superior pet immunity using a patented combination of advanced optics and digital processing technologies
  - Immune to pets weighing up to 40kg (90lb)
  - Digital Dual Opposed Detection
  - 11m x 11m (35ft x 35ft); 90° viewing angle
  - See Features Common to All Digital Motion Detectors above
DG85W: Outdoor Digital Dual-Optic High-Performance PIR (40kg/90lb True Pet Immunity)
Same features as the DG75 (page 29) plus a special weatherproof design:
• Impact and temperature resistant casing
• Operates at -35°C to +50°C (-31°F to +122°F)
• 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
• Two operational modes (addressable for the Digiplex series or conventional relay operation)

525D: Microwave and Infrared Digital Motion Detector
• Digital microwave detection
• 3 LED indicators display type of movement
• Once the PIR validates that a signal meets alarm conditions, Digital Vision uses microwave signals to confirm the results before generating an alarm
• Adjustable microwave range
• 14m x 14m (45ft x 45ft); 90° viewing angle
• See Features Common to All Digital Motion Detectors on page 29

DG466: Directional Ceiling-Mounted Digital Motion Detector
• Two dual element sensors (determine if movement is incoming or outgoing)
• One incoming detection relay output
• One outgoing detection relay output
• Adjustable return delay timer (exit and reenter without causing an alarm)
• Patented Digital Detection (see Features Common to All Digital Motion Detectors on page 29)
• 67cm x 4.8m (2.2ft x 16ft) and 60cm x 4.8m (2ft x 16ft)
Analog Motion Detectors

Features Common to All Analog Motion Detectors
• Patented Auto Pulse Signal Processing
• Automatic Temperature Compensation
• Metal shield maximizes protection from EMI and RFI signals
• Dual element sensor
• Anti-tamper switch

476+:
PIR with High EMI and RFI Rejection
• Extremely high EMI and RFI rejection
• PCB uses only surface mount components
• Solid-state relay
• 11m x 11m (35ft x 35ft); 110° viewing angle
• See Features Common to All Analog Motion Detectors above

476PET:
Analog Single-Optic PIR (18kg/40lb Pet Immunity)
• Immune to animals weighing up to 18kg (40lb)
• When a higher level of immunity is required, such as when animals are constantly in the detection area, consider using DG75
• 11m x 11m (35ft x 35ft) and up to 15m (50ft) for center beams with 88.5° viewing angle
• Extremely high EMI and RFI rejection
• PCB uses only surface mount components
• Solid-state relay
• See Features Common to All Analog Motion Detectors on page 31

460:
Vertical View Motion Detector
• Adjustable lens position (0° or 10°)
• Selectable operational voltage (12Vdc or 24Vdc)
• Adjustable alarm signal duration
• Detects hand-sized objects for card access applications: 2.1m x 1.5m (7ft x 5ft)
• Detects body-sized objects for security applications: 6m x 4.5m (20ft x 15ft)
• See Features Common to All Analog Motion Detectors on page 31

465:
360° Ceiling Mounted Motion Detector
• 7m x 6m (24ft x 20ft) at 2.4m (8ft)
• 11m x 6m (35ft x 20ft) at 3.7m (12ft)
• 360° viewing angle
• See Features Common to All Analog Motion Detectors on page 31
Specialized Detectors and Accessories

456: Glassbreak Detector
- 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
- Adjustable sensitivity: covers up to 9m (30ft) when set to high and up to 4.5m (15ft) when set to low
- TestTrek (459) used for testing available separately
- Anti-tamper switch

950: Safe Protector
- High-sensitivity piezoelectric element
- Five sensitivity settings
- 2.5m (8ft) protection range
- Anti-tamper switch

469: Swivel Mount Bracket
- 3 in 1: ceiling, wall or corner mount bracket
- Ensures optimal coverage

MG-SB85W: Heavy Duty Outdoor Swivel Bracket
- For use with the MG-PMD85W (page 7) and DG85W (page 30) outdoor digital PIRs
- Innovative T-joint allows for movement along two axes for better maneuverability and better detector positioning
- 3 in 1: ceiling, wall or corner mount bracket
- Cap lock prevents unauthorized repositioning of outdoor detector
The following beam patterns represent the optional lenses that are available for the Pro+ (476+), Digigard 55 (DG55), Digigard 65 (DG65), Digiplex Motion Detector Modules (DGP2-50 and DGP2-60), Digital Vision (525D) and Magellan (MG-PMD1P) motion detectors. Distances shown may vary according to the selected motion detector; please verify the motion detector’s specifications.
Paradox offers a number of security accessories to complement our systems, such as a voice dialer, a digital communicator, metal boxes and more.

**VD710: ParaVox Voice Dialer**
- Local and remote telephone programming
- Provides any control panel with remote voice and pager messaging
- 4 zone inputs and 2 PGM outputs
- 4 telephone and 4 pager numbers
- 1 installer and 4 user PINs
- Voice message length: 4 x 15 seconds or 2 x 30 seconds
- Available in English, French, Hungarian, Italian, Mandarin, Slovakian, Czech and Spanish

**PS-817: Switching Power Supply**
- 12Vdc, 1.75A switching power supply
- Fuseless electronic protection with automatic restore
- Automatic transfer to backup battery power
- Second backup battery connector (optional)
- Battery test input

**320S: Phone Line Protector**
- Provides installations with superior protection against damage caused by lightning and surges on telephone lines
- Gas arrestor and sidactor protection

**278: Tamper Kit**
- Use with metal boxes
- Protects against tampering (opening door or removal from wall)

**Metal Boxes**
- Provision for multiple module and panel mounting
- Many punch-out holes for simple wiring
- Easy door removal
- Convenient sizes:
  - 20cm x 25.5cm x 7.6cm (8in x 10in x 3in)
  - 28cm x 28cm x 7.6cm (11in x11in x 3in)
  - 33cm x 40.5cm x 10cm (13in x 16in x 4in)

**PBOX: Plastic Enclosure**
- For use with SPC-ZX8, APR3-ZX8, APR3-PRT1, APR3-PGM4 and APR3-ADM2
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### Control Panel Comparison Chart

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- With Zone Doubling (ATZ) feature enabled. Not available with 1727.
- Maximum 24 zones. If Zone Doubling feature is enabled, keypad zones will disable the doubled zone on two zone inputs.
- There is no limit to the number of keypad zones, but they cannot exceed the system’s zone capacity.
- Virtual zones can be used for home automation applications and do not occupy security zones.
- Depends on the number and the type of modules connected to the control panel.
- Supports multiple wireless expansion modules and each provide 16 zones and 16 remote controls.
- If feature is enabled, two of the on-board wireless zones become hardwired zones therefore only leaving 30 wireless zones available.
- Wireless system that supports 32 zones and 16 (MG-6130/MG-6160) or 32 (MG5000) remote controls.
- 4 zone inputs and 1 Fire/24Hr. Burglary zone.
Smile.
Security has never been so simple.

MG5000
32-Zone Wireless Transceiver Control Panel

- Menu-driven programming made simple for installer, user and maintenance
- In-field upgradeable for easy, on-site updates, in minutes!
- Choose any of the 32 zones to be wireless
- Up to 32 users and 32 remote controls
- Stay, sleep and arming functions

See page 5 for details
MAGELLAN™

The Sound of Security

Same Consumer Features, NOW 32 ZONES!

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