

# Digiplex EVO

## High Security and Access System



### Description

Digiplex EVO systems (EVO192) provide the highest level of protection for banks, government sites, luxurious residential homes and any place where maximum security is essential. The modular concept of these systems provide installers with labour-saving features that make expanding, installing and servicing these systems quick and convenient.

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

Digiplex EVO integrates access control solutions. Your alarm system user database can be used to manage the access for up to 32 doors, and the monitoring of these doors can be included in any partition. By merging security and access control, Digiplex EVO systems increase the level of protection offered by security systems to a whole new level.

### Feature Comparison

Feature	EVO192
Maximum Zones*	192
On-board Zones	8 (16 with ATZ)
Partitions	8
User Codes	999
Multibus	✓
Stay Arming	✓
Panel In-field Firmware Upgradable	✓
Access Control (Doors)	32
Access Levels / Schedules	16 / 32
Events Buffered	3584
PGMs	32 (5 on-board)
PGM +/- Trigger	✓
Virtual Zones**	32
Expansion Modules*	254
Supports IP / GPRS / GSM Communication (PCS Series)	✓
Supports VDMP3 Plug-in Voice Module	✓
Supports IP150 Internet Module	✓
Software	NEware, BabyWare
Listen-in Capabilities	✓

\* Can be any combination of hardwire, wireless or addressable zones, or modules

\*\* Automate PGM activations without occupying security zones



# System Overview

<h3>Control Panels</h3> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>EVO192</p> </div> <div style="text-align: center;">  <p>EVOHD</p> </div> </div>		<h3>Keypads</h3> <table> <tbody> <tr> <td style="text-align: center;">  <p>TM70</p> </td><td>           TM70: Intuitive Touchscreen            TM50: Intuitive Touchscreen            K656: Touch Sense Keypad            K641+: 32-Character Blue LCD Keypad            K641LX: 32-Character Blue LCD Keypad with Built-in Transceiver            K641R: 32-Character Blue LCD Keypad with Integrated Card Reader         </td></tr> </tbody> </table>		 <p>TM70</p>	TM70: Intuitive Touchscreen TM50: Intuitive Touchscreen K656: Touch Sense Keypad K641+: 32-Character Blue LCD Keypad K641LX: 32-Character Blue LCD Keypad with Built-in Transceiver K641R: 32-Character Blue LCD Keypad with Integrated Card Reader
 <p>TM70</p>	TM70: Intuitive Touchscreen TM50: Intuitive Touchscreen K656: Touch Sense Keypad K641+: 32-Character Blue LCD Keypad K641LX: 32-Character Blue LCD Keypad with Built-in Transceiver K641R: 32-Character Blue LCD Keypad with Integrated Card Reader				
<h3>Video Monitoring</h3> <div style="display: flex;"> <div style="text-align: center;">  <p>HD88</p> </div> <div>           HD88: Outdoor 720p HD Camera            HD78F: Event-Driven Indoor Security IP Camera / Detector         </div> </div>		<h3>Digital Bus Detectors</h3> <div style="text-align: center;">  <p>NV75MX</p> </div> <table> <tbody> <tr> <td>           NV75MX: 16M Dual Mironel Optics Pet Immune Anti-Mask Detector            NV780MX: Dual Side-View Outdoor Detector with Anti-Mask and Pet Immunity            NV35MX: Wired Outdoor / Indoor Window and Sliding Door Dual Detector            NVX80: High-End Motion Detector with Anti-Mask and SeeTrue™ Technology for Indoor / Outdoor Use         </td><td>           DM50: Dual Element Motion Detector            DM60: Quad Element Motion Detector            DM70: Dual-Optic High-Performance PIR            DG85: Outdoor Dual-Optic High-Performance PIR            DG457: GlassBreak Detector            DG467: 360° Ceiling-Mounted PIR         </td></tr> </tbody> </table>		NV75MX: 16M Dual Mironel Optics Pet Immune Anti-Mask Detector NV780MX: Dual Side-View Outdoor Detector with Anti-Mask and Pet Immunity NV35MX: Wired Outdoor / Indoor Window and Sliding Door Dual Detector NVX80: High-End Motion Detector with Anti-Mask and SeeTrue™ Technology for Indoor / Outdoor Use	DM50: Dual Element Motion Detector DM60: Quad Element Motion Detector DM70: Dual-Optic High-Performance PIR DG85: Outdoor Dual-Optic High-Performance PIR DG457: GlassBreak Detector DG467: 360° Ceiling-Mounted PIR
NV75MX: 16M Dual Mironel Optics Pet Immune Anti-Mask Detector NV780MX: Dual Side-View Outdoor Detector with Anti-Mask and Pet Immunity NV35MX: Wired Outdoor / Indoor Window and Sliding Door Dual Detector NVX80: High-End Motion Detector with Anti-Mask and SeeTrue™ Technology for Indoor / Outdoor Use	DM50: Dual Element Motion Detector DM60: Quad Element Motion Detector DM70: Dual-Optic High-Performance PIR DG85: Outdoor Dual-Optic High-Performance PIR DG457: GlassBreak Detector DG467: 360° Ceiling-Mounted PIR				
<h3>Communicator Modules</h3> <div style="display: flex;"> <div style="text-align: center;">  <p>PCS265LTE</p> </div> <div>           PCS265LTE: LTE / 4G / 3G / 2G / GSM Communicator Module            PCS250 / G: GPRS / GSM Communicator Module            IP150: IP Communicator            VDMP3: Plug-In Voice Module         </div> </div>		<h3>Zone Expansion &amp; Door Contact Modules</h3> <div style="text-align: center;">  <p>ZX82</p> </div> <table> <tbody> <tr> <td>           ZC1: Door Contact Module            ZX1: 1-Zone Expansion Module            ZX82: 8-Zone Expansion Module            ZX8: 8-Zone Expansion Module            RTX3: 2-Way Wireless Expansion Module         </td><td></td></tr> </tbody> </table>		ZC1: Door Contact Module ZX1: 1-Zone Expansion Module ZX82: 8-Zone Expansion Module ZX8: 8-Zone Expansion Module RTX3: 2-Way Wireless Expansion Module	
ZC1: Door Contact Module ZX1: 1-Zone Expansion Module ZX82: 8-Zone Expansion Module ZX8: 8-Zone Expansion Module RTX3: 2-Way Wireless Expansion Module					
<h3>Software &amp; Accessories</h3> <div style="display: flex;"> <div style="text-align: center;">  <p>Insite GOLD</p> </div> <div>           Insite GOLD: Mobile App            PMC5: Memory Key            307USB: Direct Connect Interface            BabyWare: PC Software            NEware: End-User Management Software            InField: Firmware Upgrade Software         </div> </div>		<h3>Access Control Modules</h3> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>ACM12</p> </div> <div style="text-align: center;">  <p>R915</p> </div> </div> <table> <tbody> <tr> <td>           ACM12: 4-Wire Access Control Module            R910*: 4-Wire Proximity Card Reader            R915*: 4-Wire Proximity Card Reader / Keypad         </td><td> <small>*Various cards available</small> </td></tr> </tbody> </table>		ACM12: 4-Wire Access Control Module R910*: 4-Wire Proximity Card Reader R915*: 4-Wire Proximity Card Reader / Keypad	<small>*Various cards available</small>
ACM12: 4-Wire Access Control Module R910*: 4-Wire Proximity Card Reader R915*: 4-Wire Proximity Card Reader / Keypad	<small>*Various cards available</small>				
<h3>Special Modules &amp; Accessories</h3> <div style="display: flex;"> <div style="text-align: center;">  <p>PGM82</p> </div> <div>           PGM82: 8-PGM Expansion Module            PGM4: 4-Output Expansion Module            PS25: 2.8A Supervised Power Supply            PS45: 5A Supervised Bus Power Supply            HUB2: 2-Port Hub            PRT3: Integration Module         </div> </div>					

## Feature Details



### Internet Communication (IP150)

The IP150 Internet Module allows you to control and monitor your security system remotely through any web browser. It allows for email notifications of important system events such as alarms, arm/disarm events, and troubles. For example, receive an email at work when your kids get back from school. You can also view the live status of your system and arm/disarm it. For example, you have just left your office for the weekend but are not sure you remembered to arm the system. Simply check the status of your system from a laptop and arm it.



### Wireless Communication (PCS Series)

The PCS series modules provide the Digiplex EVO control panels with wireless communication capabilities to report system events via IP, GPRS, and/or GSM. Whether it be uploading/downloading via IP or GPRS, receiving system status and events by voice or text message, or reporting to the monitoring station via IP, GPRS, or GSM, the PCS series enhances the communication capabilities of any Digiplex EVO installation.



### Voice Communication (VDMP3)

The VDMP3 is a plug-in, voice-assisted module that can be programmed to call up to 5 telephone numbers in the event of an alarm. For example, when an alarm occurs at your store during off-hours, every employee can receive notification via telephone; e.g., "Area 1 in alarm. Zone 3. Press 1 to disarm the system..." You can also call the VDMP3 from an outside line, enabling you to arm or disarm the system as well as activate PGMs. The VDMP3 essentially turns any outside telephone into a keypad. The VDMP3 is easy to install; plug it in directly onto the panel, set the phone numbers, and select the activation event.



### In-field Upgradable

Digiplex EVO is not only easy to install, but is also fully in-field upgradable for simple on-site updates. The process is effortless; connect the PC to the panel and you are a few clicks away from performing a complete system upgrade within minutes. No need to change panels or hardware; all the updates are done using Paradox's InField Firmware Upgrade Software.



### Access Control

Access control can be added to the Digiplex EVO system to provide additional control over who has access to your premises, even when your security system is not armed and you are not there to supervise. With added access control you can limit access to certain areas, disallow access to others, or control entire groups of people according to their schedule or privileges. Make your premises inadmissible to all except those with access cards, track anybody who enters your premises, print detailed reports of access control activities, and more.



### App-based System Control

The Palladium Smart App allows you to remotely control your system from anywhere in the world with full cellular reliability with BELL, ROGERS AND TELUS networks.

X<sup>TM</sup>

O

D

▲

R

◀

P



## TM50 / TM70

The TM50 / TM70 are touch screen input keypads designed to communicate with Paradox control panels, and offer user friendly interface. Both offer vivid colors and two sizes to select, 7" – TM70 or 5" – TM50.

The TM70 due to its larger screen allows for more information to be displayed on one screen and is more convenient in comparison to the TM50.

Both touch screen displays are compatible with Spectra, Magellan and EVO Paradox systems, and both support Paradox next generation Swan panels with RS-485 fast encrypted bus, and features like complete menu programming, remote keypad firmware upgrade and screen saver images download from the Insite GOLD application.

The TM70 / TM50 have screen savers with auto mode, adjustable brightness with auto dim mode and full dark sleep mode, indoor temperature display, bus voltage monitoring and easy multi-partition control.

The TM70 LCD color display resolution is 800 x 400 pixels while the TM50 resolution is 472 x 272 pixels. Both come with an external SD media card (4 GB), 2 GB free space for uploading jpegs for screen savers.

The TM70 is offered in white and the TM50 in white or black colors, other colors may be custom ordered.

## Features

- ▶ 7" (TM70) / 5" (TM50) with vivid color display
- ▶ Compatible with Swan, EVO, Spectra and Magellan
- ▶ Built-in zone input
- ▶ Customizable labels (zones, partitions, users, doors and PGMs)
- ▶ External SD Media Card slot (4 GB with 2 GB of free space) for uploading photos; acts like a digital picture frame
- ▶ Firmware upgradable via SD card
- ▶ Indoor temperature reading
- ▶ In-wall bracket (optional)



TM70 installed with in-wall optional bracket

# TM70 Overview



TM70: Intuitive Touchscreen

## • SpotOn Locator™

Upload photos, images, or schematics to eliminate the need for deciphering LED zone lights. These images display any door, window, or motion detector that are active. Since the images are uploaded by the user, they are truly customized, and can be unique to each installation. SpotOn Locator™ is integrated in the original firmware, and when purchased, is unlocked with an authorization code.

## • OneScreen Monitoring™

Provides a real-time visual display of the system's status on one screen. It allows the user to choose which partitions will be displayed showing arming level, alarm, ready, and troubles. It also displays zone statuses; open, close, bypass, alarm, and tamper. OneScreen Monitoring™ also features Solo Test™ mode, which allows installers and users to easily test all system zone's via the TM70 Touch's screen. OneScreen Monitoring™ is integrated in the original firmware, and when purchased, is unlocked with an authorization code.

## Specifications

Display	16-bit, color LCD; 8.6 x 15.4 cm (3.1 x 5.9 in.), 800 x 480 pixels
Input Voltage	9 to 15 Vdc
Current Consumption	250 mA at max brightness + 80 mA sounder
Keypad Zone Input	1 for a detector or external temperature sensor
Tamper	Built-in, cover and wall
Humidity	5 to 90%
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Compatibility	Swan, EVO, Spectra, Magellan

Note: All control panel outputs are rated to operate between 11.4 Vdc and 12.5 Vdc.

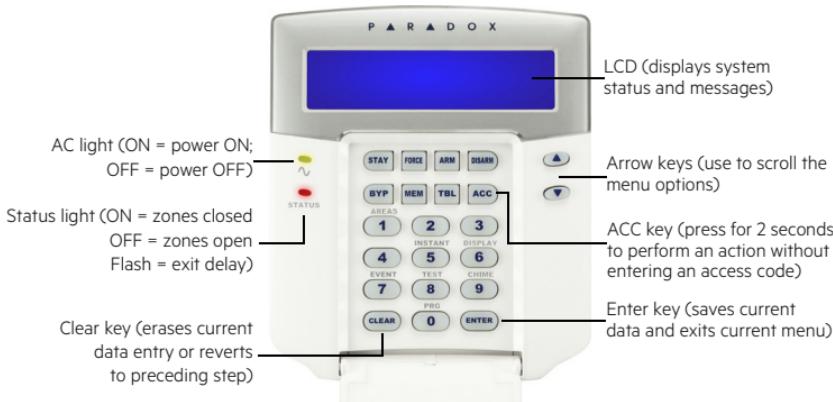
## Technical Specifications

	TM70	TM50
<b>Power Input</b>	9 to 15 VDC	
<b>Consumption</b>	250 mA at max brightness + 80 mA sounder	150 mA at max brightness, +80 mA sounder
<b>Wire Connection</b>	18 Gauge	22 Gauge, 18 Gauge recommended
<b>Display</b>	7" 800 x 480	5" 480 x 272
<b>Dimensions</b>	17.7 x 11.4 x 1.5 cm (7 x 4.5 x 0.6 in.)	14.2 x 9.5 x 1.4 cm (5.6 x 3.75 x 0.56 in.)
<b>Humidity</b>	5-90%	
<b>Indoor Temperature</b>	Yes	
<b>SD Card</b>	4 GB; 2 GB free	
<b>Input</b>	Zone, configurable	
<b>Tamper</b>	Built-in, cover and wall	
<b>Compatibility</b>	Swan, EVO, Spectra, Magellan	
<b>Remote Upgrade</b>	Swan only	
<b>Jpeg Download</b>	Swan via Bus, EVO / Spectra SD Card	
<b>Auto Dim</b>	Yes	
<b>Chime</b>	Yes	





# K641+ Keypad



## How To Arm

### Arming When Exiting (Regular/Force Arm)

To arm your system when exiting:

Step	Description
1.	Enter your [ACCESS CODE]. <ul style="list-style-type: none"><li>To Regular arm, press the [ARM] key (arms entire area when all zones are closed).</li><li>To Force arm, press the [FORCE] key (arms entire area without waiting for all zones to close).</li></ul>
2.	Select the desired area or press the [0] key for all areas.

### Arming When Staying (Stay/Instant Arm)

To arm your system when staying:

Step	Description
1.	Enter your [ACCESS CODE]. <ul style="list-style-type: none"><li>To Stay arm, press the [STAY] key (arms area's perimeter only, which allows you to remain in the protected area).</li><li>To Instant arm, press the [5] key (stay arms the area but an alarm will occur instantly if any zone opens).</li></ul>
2.	Select the desired area or press the [0] key for all areas.

## How to Disarm

To disarm your system when entering:

Step	Description
1.	Enter your [ACCESS CODE].
2.	Select the desired partition if necessary.

To disarm from within the perimeter:

Step	Description
1.	Enter your [ACCESS CODE].
2.	Press the [DISARM] key.
3.	Select the desired partition if necessary.

## Panic Keys

To send a silent or audible alarm to your security company, press and hold one of the key combinations listed below, for two seconds.

Panic Alarm	Key Combinations
Police	Keys [1] & [3]
Medical	Keys [4] & [6]
Fire	Keys [7] & [9]

## Alarm Memory Display

To view the alarms that occurred during the last armed period:

Step	Description
1.	Disarm the system.
2.	Press [MEM]. All zones that were breached during the last armed period will be displayed. Use the arrow keys to view the zones.
3.	Press [CLEAR] to save and exit.

## Trouble Display

The LCD screen will display all troubles when they occur. To view and clear troubles:

Step	Description
1.	Press [TBL].
2.	Scroll through the list of troubles using the arrow keys. Refer to the EVO User Guide for trouble descriptions and instructions.
3.	Perform the recommended repair instructions to clear the trouble. If no instructions are given, contact your security company.
4.	Press [CLEAR] to exit.

## How to Bypass Zones

When a zone is bypassed, it remains unarmed when the corresponding area is armed. To bypass zones:

Step	Description
1.	Enter your [ACCESS CODE].
2.	Press [BYP].
3.	Select the zone you want to bypass by entering the zone number, e.g., zone 3=003.
4.	Press [Enter].