

AlarmView

Wireless Intruder Alarm System with Visual Verification



User Guide

System version 2.08.38



DECLARATION OF CONFORMITY

Hereby,

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PIMA Electronic Systems Ltd. declares that the AlarmView™ system is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Federal Communications Commission (FCC) Part 15 Statement

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

If using an indoor antenna, have a quality outdoor antenna installed.

Reorient the receiving antenna until interference is reduced or eliminated.

Move the receiver away from the control/communicator.

Plug the control/communicator into a different outlet so that it and the receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

The user or installer may find the following booklet prepared by the Federal Communications Commission helpful: "Interference Handbook." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402.

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Guide. Unauthorized changes or modifications could void the user's authority to operate the equipment.

RoHS compliance - All our products are lead-free

PIMA Electronic Systems is ISO 9001 certified

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* Patent Pending Technology

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Default Master User Password: 1111

NOTICE AND DISCLAIMER

- ❖ This guide is intended to assist users and operators in the safe and efficient use of the system described herein. Before attempting to use the system, the user must read this guide and become familiar with all safety requirements and operating procedures.
- ❖ The system must not be used for purposes other than those for which it was designed.
- ❖ The use of the software associated with the system is subject to the terms of the license provided as part of the purchase documents.
- ❖ PIMA Electronic Systems Ltd.'s exclusive warranty and liability is limited to the warranty and liability statement provided in Appendix E on page 43.
- ❖ This guide describes the maximum configuration of the system with the maximum number of functions, including future options. Therefore, not all functions described in this guide may be available in a specific system.
- ❖ Warnings are given for situations and circumstances in which a possible hazard can arise.
- ❖ Cautions are given for situations or circumstances in which the system can possibly be damaged.
- ❖ Notes are given for situations that require special attention, or to improve the operating procedure.
- ❖ Incorrect operation, or failure of the operator to effectively maintain the system, relieves the manufacturer (and seller) from all or any responsibility for consequent noncompliance, damage, or injury.
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1 Introduction

This guide is designed to assist you throughout the use of the AlarmView – a **PIMA Wireless** Intruder Alarm System with visual verification.

PIMA Wireless products are easy to install, plug-n-play, providing wireless intruder alarm capabilities with or without visual-verification & optional remote Look-in with a built-in GPRS/GSM communication modem.

Suitable for residential and small business applications, the AlarmView system presents a comprehensive solution for security and personal safety: see System components on page 9, for a detailed list of the available components and accessories.

The AlarmView's unique offering is in its ability to incorporate SmartView PIRs/ Cameras that combine movement detection and image capturing, as well as OutView cameras and a wide range of regular detectors, providing a comprehensive solution for Security and Personal safety.

Upon an alarm event, both the event and images are transmitted wirelessly to the AlarmView Control Panel; the event code + 3 images are sent over the GPRS/GSM network directly to the Central Monitoring Station and optionally to the mobile phone of a number of predefined users.

The AlarmView system offers:

- Wireless alarm system with Visual-Verification & optional Look-in
- Alarm & Visual reporting to Central Monitoring Stations
- SmartView PIR-cameras
- OutView cameras
- A range of wireless peripherals such as movement/smoke detectors, panic buttons, remote keypads, key fobs, door contacts, etc.
- Optional Visual & Alarm End-user notification – to mobile phones or email
- Optional use of mobile phone for Remote image request from each camera plus the ability to Control the system remotely

1.1 Graphic conventions in this guide

Icon	Description
	Note Important note
	Caution Issues that may cause system malfunctions
	Warning Issues that may cause damage to the system or actual bodily harm

1.2 Features

- “Matched field-of view” between detector and camera, for Visual Verification, with no dead spots
- High quality color images
- Alarm event reporting:
 - ContactID, SIA Protocols over SMS/GPRS-IP
 - Images - Visual transmission over MMS/Email/GPRS



MMS (Multimedia Messaging Service) service requires Internet plan and costs money, including text messages sent via this service.

- End user notification by SMS & Email
- Remote control of system activation and camera's image requests, using SMS commands from authenticated mobile phones
- Built-in quad band GSM/GPRS communication modem
 - Advanced SmartView supervised wireless Visual link:
 - 2 way supervised and secured radio network
 - 48bit encryption key, Supervision every 10 sec
 - 2.4Ghz FHSS (Frequency Hopping Spread Spectrum)
 - 2.4Ghz Diversity receiver (2 antennas)
- Supervised 868 MHz link for standard wireless peripherals
- Graphic, user-friendly LCD display
- Easy battery replacement

1.3 Visual-Verification

Upon alarm event, both the event information and images are transmitted wirelessly to the AlarmView Control Panel; the event code + image are sent over GPRS/GSM network directly to the Central Monitoring Station and/or the mobile phone of the end-user.



Figure 1. Alarm visual verification

1.4 Specifications

The specifications listed below are for the system's Control Panel, the specifications for each of the detectors and accessories can be found in Appendix C, on page 32.

Number of wireless zones	Up to 30: 24 regular (including 1 wired), 6 visual
Wireless Peripherals	• Up to 6 Key fobs or keypads • Up to 6 Panic buttons • External siren
Arming modes	Away/Home/Partial
Alarm types	Silent, Siren or sounder (built-in)
Event log	256 events, with time & date stamp
Built-in siren	Piezoelectric, 90dB
External siren	1 siren, wireless (Indoor/Outdoor)
Input/Output	1 PGM output, 3 trigger inputs
Real-time clock	Time and Date stamp
Special functions	• Remote control by SMS from authorized mobile phones, ensuring privacy and security. • Remote look-in via an MMS from an authorized mobile phone, ensuring privacy and security. • Local USB connection for setup and firmware upgrade

Codes	8 codes, up to 8 digits each (numeric value 1-4): ▪ Master user ▪ 4 Regular users (or up to 4 digit code, numeric value 0-9, with external keypad) ▪ Duress code ▪ Limited 24H code ▪ Installer code
-------	--

1.4.1 Wireless network

Advanced wireless link for Visual zones	
Frequency Band	2.4 GHz ISM band
TX Power	Up to 100mW
Transmission method	• 2-way communication • GFSK • Frequency Hopping Spread Spectrum (FHSS)
Supervision	Up to 20 seconds
Secured Wireless Network	• 48-bit factory set ID code • Built-in security using a link key (prevents unauthorized access) • Data encryption (up to 48-bit)
Expected Range ¹	Up to 100 meters / 300 feet (indoor)
Wireless link for standard peripherals	
Frequency	868 MHz
Supervision	Randomly, every 20 to 50 minutes
Transmission method	FM Narrow Band
Expected Range ¹	Up to 100 meters / 300 feet (indoor)

1.4.2 Communication

Modem

Interface	Quad-band GSM/GPRS
Report destinations	CMS Receivers, Mobile phones, Email Accounts
Reporting formats	SMS/MMS/Email/GPRS-IP
End User contacts	Reporting Options/Formats: GSM/GPRS, SMS/MMS/Email Notifications ◆ Four cellular phone numbers ◆ Four email accounts
CMS contacts	Reporting Options/Formats: GSM/GPRS, SMS/MMS/Email Notifications ◆ Two IP address (programmable IP address and Port), Or ◆ Two phone numbers, Or ◆ Two Email accounts

1.4.3 Physical and electric attributes

Physical Attributes

Dimensions	225 x 138 x 40 mm 8.8 x 5.5 x 1.6 Inch
Weight:	
With Battery	687 grams (1.5 pounds)
Without battery	577 grams (1.3 pounds)
Casing	Plastic - PC/ABC 94/V0

Environmental Data

Operating temperature	-10°C - +58°C +14°F - +136.4°F
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¹ Range is impacted by building materials and interference

Physical Attributes

Storage temperature -25°C - +70°C
-13°F - 158°F

Humidity 0 to 85%, non condensing

Electrical Data

Power supply +12VDC/1A

Current drain 100mA standby, 0.7A peak

Backup battery +4.8 VDC,
4 x Ni-MH 2 Ah, up to 12 hours



To prevent damage to the Control Panel, use only the original AC adaptor and backup battery pack.

2 Quick Reference Guide

2.1 System components

The AlarmView system consists of the Control Panel, 23 wireless zones, 1 hardwired, 6 PIR camera (SmartView /OutView) and 36 wireless peripherals - up to 6 Key fobs/ Remote keypads, and 6 Panic buttons, as well as one wireless siren.

The Control Panel

The Control Panel consists of the main circuitry, GPRS/GSM communication module, standard wireless transceiver and a visual dedicated wireless transceiver.

Visual detectors

The SmartView supervised wireless PIR motion detectors are composed of two types, which are combined with high-quality color cameras:

- SmartView: high quality rapid acquisition camera with PIR detector.
- OutView: highly resistant outdoor camera with trigger input from external source - detector, door bell, etc.

Wireless detectors

The AlarmView system supports a wide range of wireless detectors, including door contacts, PIR and Pet-immune motion detectors, Smoke detectors, etc.

Sirens

The Control Panel has a built-in siren; an external wireless siren and strobe, or third party wired siren can also be installed.

Key fobs/Remote controls

Key fobs & remote controls can be used to easily activate/deactivate the system.

Panic/Medical Pendant/Wrist watch

The AlarmView system can be used to transmit visual enhanced medical emergency and duress alerts, using a wrist transmitter and/or emergency pendant.



Figure 2. The Control Panel

2.2 Control Panel overview

The next drawings show the Control Panel's front and back.

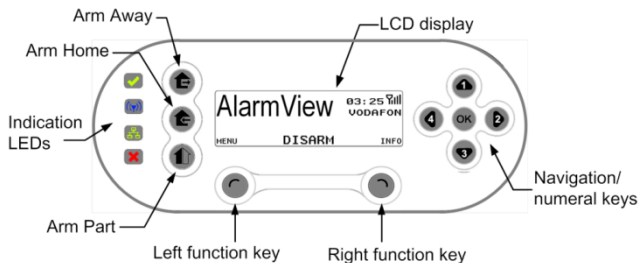


Figure 3. The Control Panel keys

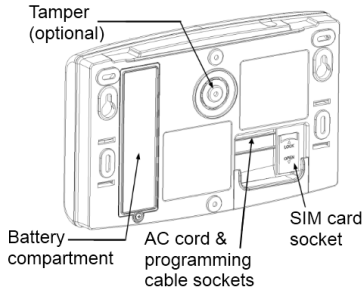


Figure 4. Control Panel's back side²

2.2.1 Key definition

The table below details the Control Panel's key definition and functions.

Arming keys		Description
	Away	Arm to Away (full) mode
	Home	Arm to Home (partial) mode
	Part	Arm to Part (partial) mode
Function keys		
	Left	Access the menus/Select/Insert
	Right	Display the system's Status/Cancel/Delete
	OK	Confirm
Navigation keys		Description
	Up	Scroll up/alphanumeric values: A-Z, 0-9, #+, @-./space_!/numeral 1
	Down	Scroll down/alphanumeric values (see above) /numeral 3
	Left	Scroll left/Exit/back/numeral 4
	Right	Scroll right/access/duplicate previous character/numeral 2

2.2.2 LCD display

The LCD screen shows at any given time the system status as well as the current time, GSM service provider and signal level.

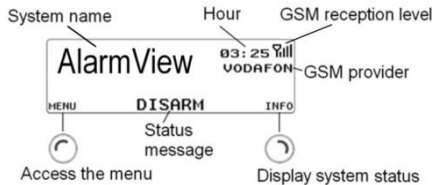


Figure 5. The LCD display

² The tamper switch is an order option and is only available if specified in the original order

2.2.3 Status messages

The available system status messages are:

- Initializing (shown after startup, exiting programming mode and after a system reset)
- Disarm
- Arm Away
- Exit Delay
- Entry Delay
- Arm Home
- Arm Part

2.2.4 Trouble icons

The available system trouble icons are:

	Message transmission		Low backup battery
	GSM reception level		Battery disconnected
	GSM network error		GPRS transmission
	AC loss		

2.2.5 Audio indicators

Following are the sounds emitted by the Control Panel and the keypad:

	Sound	Sounded when
	Single beep	A key is pressed
	Two beeps	A menu idle timeout occurs – exiting to main menu
	Three beeps	Successful command/operation
	Continuous beeps	Entry/exit delay mode
	Long beep	Illegal command or entry refusal
	Chime	The chime is activated

2.2.6 LED indicators

The table below shows the LED color indicators and their meaning.

LED	Color	Behavior
	Green	Power on
	Blank	Power loss
	Blue, blinking	Wireless communication is active
	Green, blinking	Cellular connection - OK
	Off	No cellular connection
	Orange, 3 blinks	Message waiting to be processed
	Red	System trouble; see the display for information

LED	Color	Behavior
	White, blinking	Alarm triggered – all modes; blinking will stop when re-arming, or entering the system log.
		
		

2.3 INFO screen - system status

In the INFO screen you can view the status of all active zones, by pressing the Info right function button (in the main screen). The info screen consists of a grid showing all active zones and their status.

1	2	T	4	I	I	7	B	B	10
I	12	B	14	X	X	B	18	19	B
X	22	I	B	25	T	27	28		

Figure 6. Info screen example

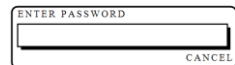
A zone with several events will toggle between the various open events, at one second intervals. The applicable events and their indication are described in the next table:

Display	Event
Empty field	Disabled or undefined zone
1-30	Active zone - normal condition
I	Open zone ("System not ready" state)
T	Open zone tamper
B	Bypassed zone
I	Low battery
X	Supervision loss
B	Alarm

2.4 Accessing the menus

In order to access the programming menus, a password is required.

1. In the main screen, press the left function key under MENU; a password entry field will appear.
2. Use the numeric/navigation keys to enter the Master user password; see section 2.2.1, on page 10, on how to enter text.



2.5 Default passwords

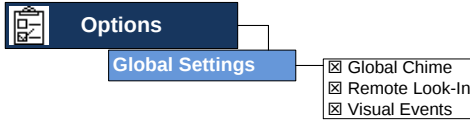
The Control Panel has two default passwords and matching menus: Master User & Installer:

Password	Default	Enables
Master user	1111	Changing of User and Master codes, selecting system options and partial system setup and programming
Installer	1234	Changing of Installer code, programming and setup. This code can only be changed by the Installer.

3 Options menu

This menu allows changing and controlling the general behavior of the Control Panel.

3.1 Global settings



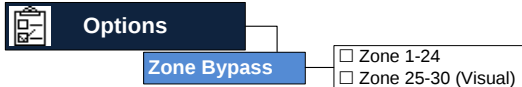
The Global Settings menu allows to enable/disable the Global Chime, Remote Look-in, and Visual events, to maximize your control of all privacy issues.

To change the global settings:

1. Access the User menu and select **Options→ Global Settings**.
2. Set/clear the options, which are:
 - a. Global Chime: enable/disable the Control Panel's chime for all chime zones.
 - b. Remote Look-in: enable/disable Look-in image request by predefined mobile phone.
 - c. Visual Events: enable/disable sending Visual Verification images to predefined mobile phone.

See the "Glossary", on page 41 for detailed explanation on the options.

3.2 Zone bypass



This menu allows setting zones to be bypassed, i.e., not to trigger the alarm when opened. Bypassing is used when the system needs to be armed, while one or more zones cannot be armed. The zones selected will be bypassed during the next arming session and will automatically return to normal, upon disarm.

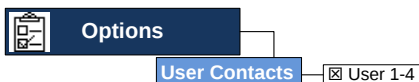
To set zones for bypass:

1. Access the User menu and select **Options→ Zone Bypass**.
2. Set/Clear all relevant zones; note that only the enabled zones are listed.



Bypassing zones reduces the safety of the protected premises: a bypassed zone does not sound the alarm when violated, nor does it report the CMS; therefore it must be used carefully.

3.3 User contacts



The User Contacts menu allows temporarily disabling a user contact from receiving notifications, or performing other normally allowed activities. To disable a user:

1. Access the User menu and select **Options→ User Account**.
2. Clear to disable, or Set to enable relevant users.

4 Event Log menu



The Event Log menu allows viewing the system log. The log keeps the last 256 events. While the system is armed, only 10 events from the same zone can be logged.

To view the Event Log:

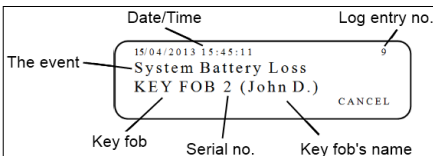
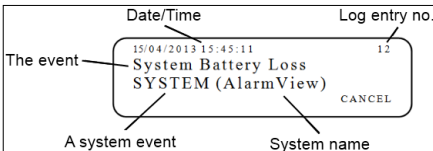
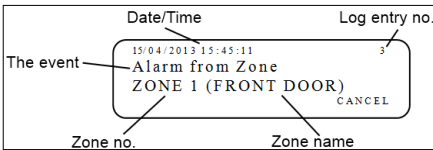
1. Access the User menu and select **Event Log**. The display will show the last chronological event in the log.
2. Use the Up/Down   navigation keys to scroll the events; see next section for details.
3. Press "Cancel" to exit the log.

4.1 The log display

Every log entry is displayed in three lines (see the examples):

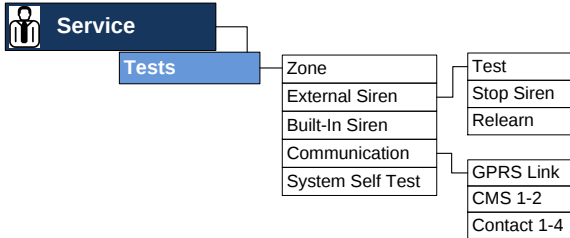
- a. The upper line shows the date/time stamp and the entry number on the right.
- b. The mid line shows the event description
- c. The bottom line shows the zone/event source.

4.1.1 Log entry examples



5 Service menu

5.1 Tests



Tests help ensuring proper operation of the system. You should test you're alarm system on a regular basis, once every week.

5.1.1 Zone test

This test should be performed periodically, to ensure that all the detectors work properly.

To perform the zone test:

1. Access the User menu and select **Service → Tests → Zone**.
2. All the enabled zones will appear in a grid, with the zone number of regular zones, and the RSSI (Received Signal strength Indication) level of visual zones; see the next sub-sections.
3. Trigger each regular zone - once the zone signal is received, the zone number is replaced by its RSSI level bars.
4. Once the tests are complete, press OK to exit.

5.1.1.1 Zone status options

There are three status options for a zone display (see the next figure):

- a. Number: this is the zone number. It appears in regular zones before testing, and in fault visual zones with, for example, low battery or supervision loss.
- b. RSSI bars:
 - 1) In regular zones: the bars appear as the zone is triggered;
 - 2) In visual zones: the bars appear normally and constantly interchange with the zone number.
- c. Empty: this indicates that the zone is not in use (disabled).

5.1.1.2 RSSI reception level

The Received Signal Strength Indicator or RSSI, helps determining if a wireless device is placed at a location where it can maintain good communication with the Control Panel.

As in a cell phone, the more bars that appear the better is the reception, and vice versa:

1	2			5	6	7			10
11	12	13	14	15	16	17		19	20
				24	25				

-  5 bars: Excellent reception;
-  4 bars: Very good reception;
-  3 bars: Good reception;
-  2 bars: Low reception - relocating the detector is advisable;
-  One bar: Poor reception- relocating the detector is required!

5.1.2 External Siren

5.1.2.1 Test

To test the siren:

1. Access the User menu and select **Service → Tests → External Siren → Test**
2. The external siren will sound two separate beeps, then a third longer one.
3. Press OK.

5.1.2.2 Relearn

Installer only option.

5.1.3 Built-in siren

The test verifies the behavior of the built-in siren. To perform the test:

1. Access the User menu and select **Service → Tests → Built-In Siren**.
2. Press OK; the built-in siren should sound briefly.

5.1.4 Communication

The test verifies the communication setup, by attempting to send and receive data; see the next table for details. To perform a communication test:

1. Access the User menu and select **Service → Tests → Communication**.
2. Select the communication test type; see the next table.
3. Press OK at the end of the test.

5.1.4.1 Communication test options

Type	Test Process	Target	LCD Message	Response
GPRS LINK	An attempt to open Google [®] 's website	www.google.com	Wait	Passed/Failed
CMS 1...2	Sends a "Periodic Test" event to the CMS (reporting is dependent on the protocol defined).			
	ContactID/SIA SMS	CMS phone	Wait	Passed/Failed
	Email visual/ContactID	CMS email	Wait	Passed/Failed
	GPRS ContactID/Visual ContactID	CMS IP & port	Wait	Passed/Failed
Contact 1...4	Sends a "Periodic Test" message via SMS & email, and reports after each test.			
	SMS Test (Event Report must be enabled)	Mobile phone	Test SMS	Passed/Failed
	Email Test (Event Report must be enabled)	Email address	Test email	Passed/Failed

5.1.5 System self-test

The test initiates an automatic sequence of the system, which checks the processor, the screen and more. To perform the self-test:

1. Access the User menu and select **Service → Tests → System → Self Test**.
2. The system will activate a sequence of the display and audio tests, LED, LCD, siren and internal speaker. After that, the CPU, Memory, GSM/GPRS modem, RF, and more are checked. When the test is complete the system will display a status message of either Ok or detailed error message.
3. Press Back to exit.

5.2 Enable programming

Programming by the Installer of the alarm system is required on some occasions, like when the need to update the system's software or see its configuration arises. It can be done locally, on the premises, or by the telephone.

By default, local and remote programming is disabled and must be enabled by the Master user's special permission. For security reasons, only the Master user can allow this. It enables a 2 hour window, in which programming is allowed. After the 2 hours are up it must be enabled once again, if required

To enable a 2 hour programming window:

1. Access the User menu and select **Service → Enable programming →**
2. Press  for "Yes". The built-in siren will sound 3 beeps and a confirmation message will appear.
3. Press Back twice to exit.

Enable programming
For 2 hours ?

YES

NO

5.3 System version

To view the system version:

1. Access the User menu and select **Service → Display Version**.
2. The Control Panel's software version will be displayed.
3. Press OK to exit.

5.4 System reset

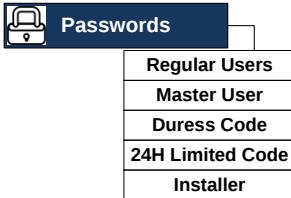
This feature is to be used mainly to reset the GSM communication between the control panel and the GSM network. It behaves the same as disconnecting the control power from power briefly and does not affect settings like zone names, telephone numbers, etc.

To perform a system reset:

1. Access the User menu and select **Service → System Reset**.
2. Wait shortly for the process to end and the main display to appear.

6 Passwords menu

The password menu allows you to define and set passwords used for the various functions of the system, using a level hierarchy password system.



6.1 Regular user passwords

Here you can define up to 4 users of the AlarmView, with name and password for each. The passwords only allow their users to arm and disarm the system.

The password functionality depends on whether it is entered at the Control Panel or in a wireless keypad:

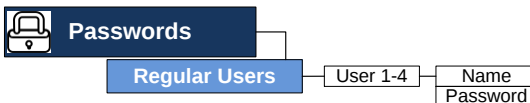
- Passwords that are to be entered in the Control Panel can be made of up to 8 digits and contain only the numeric values of 1-4, for example 13423142.
- Password that are to be entered solely in the RWK wireless keypad can be made of up to 4 digits, but contain the numeric values of 0-9, for example 0369.



Due to EN50131-1 regulation and "Grade 2" approval, the system allows only 21 attempts to enter password/code (on the wireless keypad only). A Tamper event is generated on the 22nd attempt.



EN50131-1 regulation and "Grade 2" approval require the use of a minimum of 7 digit passwords; when using the Control Panel without s keypad you can use 1-4 numeric values only.



To set passwords for regular users:

1. Access the User menu and select **Passwords → Regular Users → User X**.
2. Select **Name** and enter a user name; see section 2.2.1, on page 10 on how to.
3. Press OK.
4. Select **Password** and enter a password; see section 2.2.1, on page 10 on how to.
5. Press OK.



To entirely delete a password delete all the digits, leaving it blank, and press OK.

6.2 Master user password

The Master user password is used to access the user menu (and to arm/disarm). This password can be up to 8 digits long and contain the numeric values of 1-4, for example 41241324.



The default Master user password must be changed, to complete the installation and setup process.



- ◆ The Master password cannot be entered on a wireless keypad, only directly in the Control Panel.
- ◆ "Grade 2" approval requires the use of a minimum of 7 digit passwords.

To set the Master password:

1. Access the User menu and select **Passwords → Master User**.
2. Enter the desired password; see section 2.2.1, on page 10, on how to.
3. Press OK.

6.3 Duress code

The Duress code is used when a user is forced to disarm the alarm system by an intruder. When this code is entered, the system is indeed disarmed, as in normal disarming, however, a "Duress" event is sent to the Monitoring Station (where available) and the system's contacts.

As a precaution, the LCD screen shows no indication for the duress reporting; only the envelope icon appears to indicate normal "Disarm" reporting.

The Duress code can be up to 8 digits long and can contain the numeric values of 1 through 4, for example 44312411.



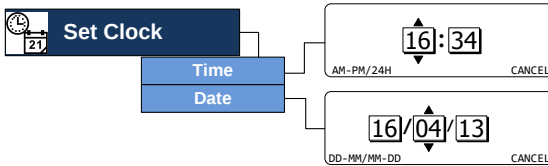
To help you remember the Duress code in stressful situations, use your User code, but switch around the last two digits; for example, if your user code is 331423**24**, the Duress code should be 331423**42**.

To set the Duress code:

1. Access the User menu and select **Passwords → Duress Code**.
2. Enter the desired password; see section 2.2.1, on page 10 on how to.
3. Press OK.

7 Set Clock menu

When starting the system for the first time, or after a long power failure, the time and date need to be set.



7.1 Time

To set the Time:

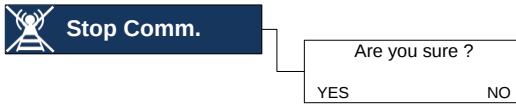
1. Access the User menu and select **Set Clock → Time**.
2. Press the left function  key to set the time format to either 12H (AM/PM) or 24H.
3. Press the up and down arrow keys   to set the hour.
4. Press the right and left arrow keys   to move the indicator between the hour and minute boxes, and set the minute.
5. Press OK to confirm.

7.2 Date

To set the Date:

1. Access the main menu and select **Set Clock → Date**.
2. Press the left function key  to set the date format to either American (MM/DD) or European (DD/MM).
3. Press the up and down arrow keys   to set the day/month.
4. Press the right and left arrow keys   to move the setting indicator between the day, month and year boxes, and the other data.
5. Press OK to confirm.

8 Stop Communication menu



This option allows you to temporarily stop all communication - all pending messages are cancelled and all communication buffers are cleared.

The Stop Communication option is used in the following cases:

- a. During the installation process (by the Installer).
- b. During testing of the system (by the Installer).
- c. In the event of a false alarm, when entering or exiting the premises (by the Master user).

To stop communication and clear the buffers:

1. Access the User menu and select **Stop Comm.**
2. Press OK.
3. Press Yes to confirm; all messages in queue, if there are any, will be erased and will not be sent.

9 Operating Instructions

9.1 Arming modes

The following section explains how to arm and disarm the AlarmView system, using the various options. All these options are also available when using a remote control, key fob or wireless keypad, or when using SMS commands from an authorized cellular phone.

The AlarmView system allows 3 arming modes, defined during the programming process and allowing a fully flexible and complete protection. The modes - Arm away, Arm Home and Arm Part - are illustrated in the following diagrams; the protected areas are shaded.

- Arm Away

Full arming of all zones in the system, i.e., all door contacts, motion detectors, etc. are activated, is to be used when the premises is vacant.



- Arm Home

Home arming is a perimeter arming of all perimeter sensors and detectors, as defined by the Installer. For use when home/office is partly occupied.



- Arm Part

Partial arming is to be used when one part of the premises needs to be secured, while leaving the other part unsecured.



9.2 Arming the system

To arm the system to any of the arming modes:

1. Verify that the system is ready for arming: all zones that are part of the defined arming mode are closed, except exit delay ones.
2. Press the appropriate key: Arm Away , Arm Home , or Arm Part ; if "One-Key Arming" is not enabled by the Installer, enter a user code. The Exit delay will start immediately. As soon as it expires, the system will become armed.

9.2.1 Using a key fob

The AlarmView system can be armed and disarmed using a key fob; see section C.8, on page 35 for details.

9.2.2 Via an external wireless keypad

A wireless external keypad can be used to arm and disarm the system, either in addition to the Control Panel or as a single keypad. User codes that are entered at the wireless keypad are limited to 4 digits only, with numeric values between 0-9, for example 0486.

However, the Master user password cannot be used via the wireless keypad, but only at the Control Panel.

9.2.3 Force arm and faults overriding

9.2.3.1 Force arm

"Force arm" is a feature that allows the exit delay to start running, even when non exit delayed zones are open ("System not ready"). This feature can be enabled by the Installer. All open zones must be closed before the exit delay expires, or an alarm will be set off.

9.2.3.2 Faults overriding

Three faults can be overridden and ignored, so the alarm system can be armed even if one of them occurs. The faults are **Backup battery loss**, **AC loss** and **Zone supervision loss**. This feature too can be enabled by the Installer.

The three faults will be logged and reported anyway.

9.3 Disarming the system

There are two ways to disarm the system:

- By entering a User code;
- By entering the Duress code; (see section 6.3, on page 20).

See the "Glossary", on page 41 for more details.

9.4 Operating the system by text messages

The AlarmView system can be operated by SMS messages. Operations include arming & disarming, requesting the system status, activating the PGM output, stopping the siren and requesting look-in images.

By using Caller ID authentication, only user contact cell phones are accepted by the Control Panel. Furthermore, the security settings and actions allowed for each and every phone number (i.e., contact) can be managed separately.

To send a command, simply type the letter/s listed bellow and send it to the system's phone number as a text message. A status message confirming (or reporting failure) your command should be received from the system.

Note that commands are NOT case sensitive.

9.4.1 SMS commands

Following are the available text commands* you can utilize by using the cellular phone.

Action	Text	Shortcut
Arming commands		
Arm Away	AWAY	A, a
Arm Home	HOME	H, h
Arm Partial	PARTIAL	P, p
Disarm	DISARM	D, d
PGM commands		
Open PGM		1O/o
Close PGM		1C/c

Visual Look-in commands

Request Image	xxI/i
	• xx – zone number • Available zones are 25-30 • 99 – all 25-30 zones

Miscellaneous commands

Stop Bell	BELL	B, b
Check System Status	STATUS	S, s
Help - Request a list of commands	?	

** Commands are NOT case sensitive*

9.4.2 Receiving an SMS message

The SMS messages sent by the Control Panel are built out of the following format:

Message + Device Name/User Name + time stamp; for example, "Alarm from Kitchen AlarmView 02:38:26".

Appendix A The AlarmView Smartphone Application

Currently for Android only and soon for iPhone too, the AlarmView application allows you to operate your alarm system via a simple-to-use, icon based, free smartphone application. The application can be obtained by Email, directly from your vendor.

The application uses SMS technology behind a clear user interface that makes operating the alarm system remotely, quick and intuitive. Just as in controlling the alarm system using text messages, every operation by the application is being answered by a text message from the alarm system that either confirms the action or reports on error.

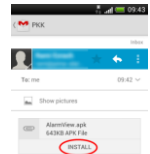


To use the application, some parameters are required to be programming by the Installer.

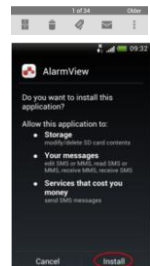
A.1 Installing the application

As mentioned above, the application's file can be obtained from your vendor by Email. To install the application:

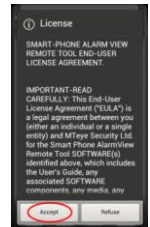
1. On your Smartphone, open the Email message containing the installation file ("AlarmView.apk").
2. In the message body, tap INSTALL.



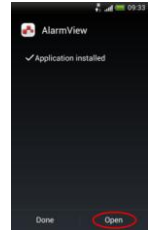
3. Tap Install again in the first installation screen.



4. Read the End-User License Agreement ("EULA") and tap Accept.



5. When installation ends, click Open.



A.2 The interface



Figure 7. The smartphone app's screen

A.2.1 The buttons



Arm Away



Arm Home



Arm Part



Update system status

Yellow and swiveling:
currently updating



Disarm



Settings



Turn On/Off the PGM output

- Green: the output is active
- Red: the output is not active



Bell cancel



Battery status



Alarm status

Currently not applicable



System Status

Green: system status has been updated



Request look-in images

Fault status

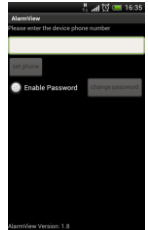


- Red: one or more of the following faults exist: "Action not allowed", "Operation failed", "Arm away failed", "Arm home failed", "Arm part failed", "Disarm failed"
- Green: none of the above faults exist

A.3 Settings

A.3.1 The Control Panel's phone number

1. To set the Control Panel's mobile phone number, tap the Settings icon (bottom left).
2. Enter the number in the designated space.

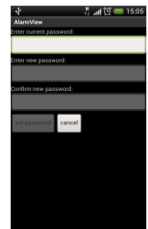


A.3.2 Password protection

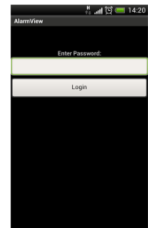
The application can be protected by a password, so to open it will require the user to enter a password. The default password, after enabling this feature, is four zeros ('0000').

To set a different password:

1. Tap to select "Enable Password".
2. Tap "Change Password".
3. Enter the current password. Failing to enter the correct password will prevent entering a new one. If this is the first time you enter a password, enter '0000' as the current one.
4. Enter a new password and enter again to confirm it.
5. Tap "Set password"



From now on, every time you'll try to open the application, a logon window will be displayed. To remove it and cancel the password feature, de-select "Enable Password".



A.4 Operating the application

When opening the application and before updating the status or performing any action, the buttons are all in gray. As the system status is updated or an action is taken, for instance when tapping the Sync button, they become colorful and remain so for 20 seconds, before returning to be gray.

A.4.1 Arming & disarming

To perform an action, just tap the appropriate icon. The AlarmView's Control Panel will send a confirmation (or error) message, as soon as the action (e.g., disarming the system) is taken; the relevant icons in the application will be colored: arming icons lights in red when active, disarm(ed) in green, and so on.

Also, the status icons will light in green, depending to their status: low battery in green (otherwise in gray), faults in green when there ones, and so on.



A.4.2 Look-in image request

Tap the camera icon at the bottom - a pop-up window showing the cameras, is displayed (see the next image). To receive an image from camera #1-6 (if installed), tap the camera's button. The Control Panel will respond by sending an image as an MMS message.

When an MMS arrives, a popup message with the camera icon will be shown

- Pressing OK will open the incoming message
- Pressing Cancel will close the popup.



A.4.3 PGM output activation

The PGM icon (and output) has two states (as in the PGM output itself), as explained in the previous table. Being a toggle mode output, every tap turns the output's state to either On or Off, and as a result the icon's color becomes red or green.



Appendix B Maintenance & Troubleshooting

B.1 Cleaning the LCD screen

The LCD screen may occasionally get finger oil stains and accumulate dust. Clean it only with a soft dry cloth or a special screen cleanser. Avoid the use of abrasives of any kind.



Never use solvents such as Kerosene, Acetone or Thinner; these will harm the external finish and damage the transparency of the window.

B.2 Replacing the Control Panel's battery



Before replacing the backup battery, remove the transformer from the AC outlet or disconnect the power.

We recommend using suitable replacement batteries from *PIMA Wireless* for best performance and system care.

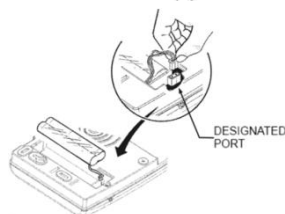
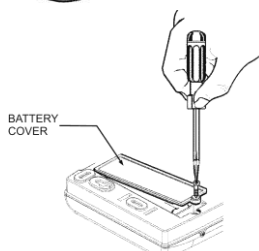
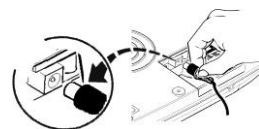


RISK OF FIRE, EXPLOSION AND BURNING!

- **Do not disassemble, expose to excessive heat or incinerate.**
- **Dispose used batteries in appropriate container.**

To replace the backup battery:

1. Remove the Control Panel from the wall.
2. Unplug the power adapter cable from the power jack.
3. Using a Philips screwdriver, unscrew and remove the battery cover from the back cover.
4. Gently pull out the battery wiring from its designated port and remove the battery.
5. Connect the new battery wiring and put it in place.





Use suitable replacement batteries from Pima Alarm Systems for best performance and system care.

B.3 Replacing the SmartView battery

The battery used in the SmartView detector is Energizer Lithium L91 1.5v.

To Replace the SmartView battery:

1. Release the screw fastening the bracket to the detector and remove the bracket.

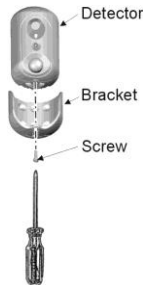


Figure 8. Remove Bracket

2. Remove the screw fastening the battery compartment cover to the detector and remove the cover.

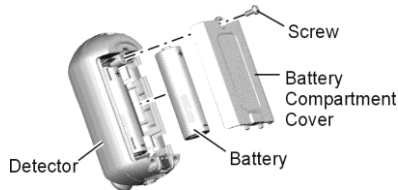


Figure 9. Replacing the SmartView battery

3. Replace the two batteries with a fresh set (see sticker on the battery holder compartment for correct polarity).
4. The blue indication LED will light up for 2-4 seconds and then go off, indicating the batteries are installed correctly.
5. Close the battery compartment cover and fasten the screw.

Appendix C Wireless Peripherals

This section gives a detailed explanation of each of the available SmartView family and additional Wireless detectors and peripherals.

C.1 SmartView PIR/Camera

The SmartView is a supervised wireless digital PIR motion detector, combined with a VGA high-quality color camera.

Used for a wide range of home and office applications, it is designed for easy installation, with no required vertical adjustment.

Using an authenticated, two-way, encrypted wireless link, (2.4 GHz, FHSS), it ensures excellent indoor coverage, allowing the transmission of high-quality color-VGA images, utilizing low power technology.

The SmartView has a unique technology called Rapid Image Acquisition, for supplying the Visual images. It also includes a diagonal lens with 11 lenses that lets covering 22 zones, delivering uniform detection sensitivity to a range of up to 7 meters.

The SmartView unique feature of 'Matched field-of view' between camera and detector, allows simple installation at any place in the premises, knowing that the area covered by the camera is also the protected area, and there is no need for adjustment or alignment of the detector or camera.



Figure 10. SmartView PIR/Camera

C.2 OutView camera

The OutView camera is designed for outdoor installations, and utilizes external trigger input, making it ultimate tool for enhanced perimeter protection as well as a variety of other applications.

The OutView camera can be triggered by :Outdoor detector, Doorbell, Electronic-gate, etc.

C.2.1 Quick reference guide



Figure 11. The OutView parts

C.3 PIR-S Wireless PIR detector & PIR-P Wireless Pet-Immune PIR detector

Passive Infra-Red (PIR) Motion Detectors are the most frequently used type of detector. There are two models: normal detector and with Pet immune.

The PIR-S detector utilizes a digitalized adaptive signal processor



algorithm. It is made up of a cover and a base: the cover contains the electronics and optics; the base has knockouts to allow mounting on flat surfaces or in a corner situation (using a triangular bracket).

Figure 12. Wireless PIR/
Pet-Immune detector

The detectors are designed to give a typical detection range of 12 meters, when mounted at 2 meters above ground.

The PIR-P Pet-Immune PIR detector eliminates false alarms caused by pets. It is designed not initiate the alarm when detecting a dog weighing up to 27Kg, few cats, etc.

C.3.1 Test

The detector can be put into Test mode, by pressing its LED. In Test mode, the power consumption timer will be turned off and the LED indicator will flash every time a movement is detected.

Each time the Test button is pressed, it enters the test mode for 3 minutes, during which the unit will transmit a test signal to the Control panel for radio range test.

After 3 minutes it will exit Test Mode automatically and return to normal mode.

C.4 TD-5 temperature detector

The wireless temperature detector generates an alarm when the surrounding temperature drops to 5°C (41°F).



Figure 13. Temperature detector

C.5 DCM magnetic door contact

The wireless magnetic door contact is used for detecting the opening and closing of doors and windows. Best used where there are small children or in shops and warehouses, the door contact is typically fixed to the doorframe/windowsill and the magnet is fixed to the door or window.

While the AlarmView system is disarmed, every time a magnet door or window is opened, the Control Panels chime sounds a long beep. While the system is armed, however, an alarm is generated, just like any other detector.

To turn the chime off completely, see section 3.1, on page 13.



Figure 14. Magnetic door contact

C.6 SM smoke detector

The smoke detector has a small foot print and low profile, yet it utilizes optical chamber technology, freeing it from potentially harmful radioactive materials. It is micro-process controlled and offers 100% reliability, safety and quality.

Once smoke is detected, the detector's LED lights up and an alarm is sent to the Control Panel. An internal buzzer will sound for 10 seconds after which a follow-up smoke check is performed.

Pressing the Test button will put the Smoke Detector into Alarm Silence mode for 10 min. and the alarm will be stop. After this 10-minute period is over, the detector will emit a 2-tone beep and return to normal operation mode

If the Smoke concentration is still over the set threshold value, the Smoke Detector will sound the warning alarm again.



Figure 15. Smoke detector

C.6.1 Test

Press the Test button on the detector (see previous figure) to ensure that it is functioning properly:

- If the detector functions normally, the LED will be ON for 2 sec., then it will sound a 2 tone beep.
- If the buzzer sounds 3 beeps, the optical chamber is either dirty or out-of-order.
- If the LED doesn't light and no beep is sounded, the smoke detector is out-of-order.

C.7 DCO Carbon Monoxide detector

The Carbon Monoxide Detector provides round-the-clock protection of people by detecting dangerous presence of carbon monoxide.

Once the concentration of the Carbon Monoxide (CO) exceeds the set threshold value the detector's LED lights up and an alarm is sent to the Control Panel. An internal buzzer will sound for 10 seconds after which a follow-up smoke check is performed.

Pressing the Test button will put the Detector into Alarm Silence mode for 10 min. and the alarm will be stop. After this 10-minute period is over, the detector will emit a 2-tone beep and return to normal operation mode

If the Smoke concentration is still over the set threshold value, the Smoke Detector will sound the warning alarm again.



Figure 16. Carbon Monoxide detector

C.7.1 Test

Press the Test button on the CO Detector to ensure that it is functioning properly:

- If the detector functions normally, the LED will be on for 2 sec. then it will sound a beep.
- If the buzzer sounds 3 beeps, the Electro-chemical sensor on the CO detector is out-of-order.
- If the LED doesn't light and no beep is sounded, the CO detector is out-of-order.

C.8 KF-1/KF-2 Remote control key fobs

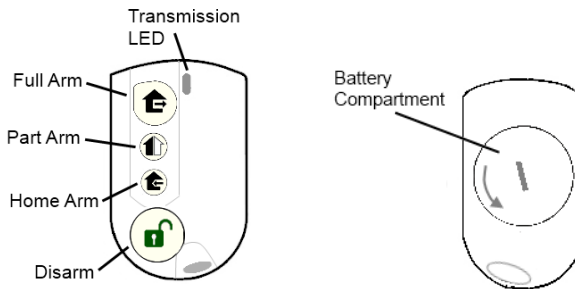
The remote control key fob offers the convenience of arming and disarming the alarm system at a distance.

- KF-1: one-way key fob
- KF-2: two-way key fob – every successful operation is indicated in the key fob by a beep



Figure 17. Remote control key fobs

C.8.1 Quick reference



Pressing this button arms the system in Away mode



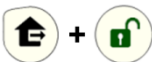
Pressing this button arms the system in Partial mode



Pressing this button arms the system in Home mode



Pressing this button disarms the system. If the alarm is sounding, pressing this button will stop the siren.

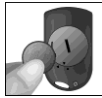


Pressing these two buttons together for 1 second will produce a Panic alarm



C.8.2 Replacing the key fob's battery

1. Remove the battery cover by using a coin to turn it counter-clockwise
2. Insert the battery as shown in the diagram, with the unmarked side (negative) of the battery facing down
3. Replace the battery cover
4. Secure the cover by using a coin to turn clockwise; see the next figures



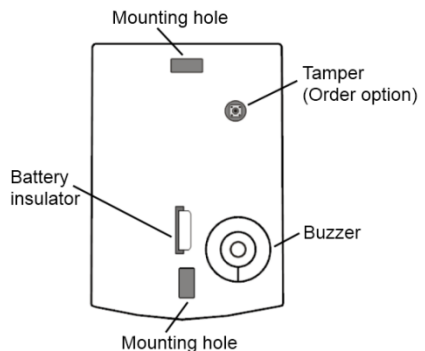
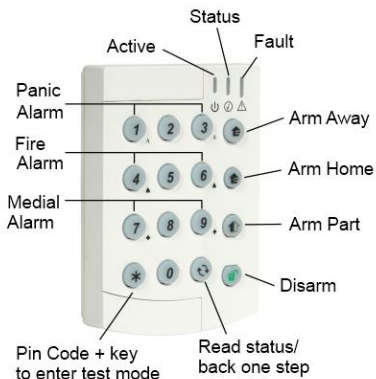
C.9 RWK Wireless keypad

The RWK is a two way wireless keypad that can be used to enhance accessibility in large locations, where there is a need for more than one entry/exit point, or when the Alarm system is installed away from the door.



Figure 18. Wireless remote keypad

C.9.1 Quick reference



C.9.2 Alarm key combinations

Press the following key combinations together, to trigger:

- a. Panic alarm: 1 + 3
- b. Fire alarm: 4 + 6
- c. Medical alarm: 7 + 9

C.9.3 LED indicators

The remote wireless keypad LED indicators behave as follows:

Power LED (Red):

- Steady: system OK
- Flashing: low battery

Status LED (tricolor)

- Steady Red: armed Away
- Flashing Red: armed Home
- Steady Orange : armed Part
- Steady Green: disarmed
- Flashing Green: fault

Fault LED

- Currently inactive

C.9.4 Operating instructions

Arming the system using the remote keypad is done using one key arming. Press the desired Arm Away, Arm Home, or Arm Part key to arm the system.

To disarm the system enter a valid user code and press the keypads Disarm button.

C.9.5 Replacing the battery

1. Remove the keypad from the wall.
2. Open the Keypad by loosening the 2 screws located on the back of the unit.
3. Remove the battery and press any key to discharge.
4. Insert a new battery into place.
5. Replace the keypad's cover and secure with the two screws.
6. Remount the unit onto the wall.

C.10 REP Range extender (Repeater)

The Range extender is designed to increase the effectiveness and versatility of the alarm system, by increasing the maximum possible distance between the control panel and the detectors and peripherals. It is available in 868MHZ version.



Figure 19. REP Range extender (Repeater)

C.11 PCP Panic Pendant/Wrist watch

The water proof panic pendant/wrist watch is designed to be worn by people with special care needs, as they move around the premises.



Figure 20. Panic pendant/wrist watch

C.11.1 Use instructions

To transmit an emergency signal to the Control Panel, press and hold the Panic button (see next figure) for more than one second. The LED will flash three times to confirm.

When the Control Panel receives the alarm signal and is being activated, you can stop the activity by pressing & holding the Active Button for eight seconds (ignoring the first set of LED flashing at one second). The LED will flash three times to confirm.

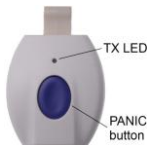


Figure 21. Panic pendant

C.12 SIR B/R Wireless external siren

The Wireless External Siren can be used in commercial, industrial and residential locations, indoors or outdoors.

The Siren is capable of providing audible alerts for fire, alarm and tampering, at levels difficult to ignore. A strong flashing signal helps to identify the source of the alarm from the distance.

The siren is operated by 4xD size 1.5v Alkaline batteries.



Figure 22. External siren

C.12.1 Replacing the siren's battery

1. Release the screws at the bottom of Bell box and lift the outer case carefully.
2. The battery compartment is a large box in the Bell box with a lid secured with 4 screws.
3. Remove the four screws and take off the compartment lid.
4. Remove the batteries and press the Tamper Switch twice to discharge.
5. Slide Power Switch to OFF position.

6. Insert new batteries and slide Power Switch back to ON position.
7. The Bell box will beep and flash when the last battery is inserted.
8. Replace the battery compartment lid with the four screws and not to over tighten.

C.13 SIR-I Wireless Indoor siren

The Indoor Wireless Siren can be used in commercial, industrial and residential indoor locations. The Siren is capable of providing audible alerts for fire, alarm and tampering at levels difficult to ignore.



Figure 23. SIR-I Wireless Indoor siren

C.13.1 Features and specifications

- Low battery detection
- Case and wall tamper protection
- System status indicator with siren beeps
- Programmable cut-off options via the Control Panel
- Power: 4 x D size Alkaline batteries³
- Range: Over 300 meters (~1000 feet) in open space⁴

C.13.2 Audio status indication

The indoor siren uses the following indications while in Arm and Disarm modes; all options are defined via the Control Panel:

Mode	Siren audio
Arm/Home	1 beep
Arm Key fob	5 beeps
Disarm (Low Battery)	2 beeps

C.13.3 Test

1. Access the User menu and select **Service -> Tests -> External Siren test -> Test.**
2. The siren should sound for a few seconds. If it is not, re-enroll the siren.

³ Three years life expectancy in typical domestic environment

⁴ Range might be impacted by building materials and interferences

C.13.4 Replacing the batteries

1. Release the side screw of the box and lift the outer case carefully.
2. Remove the battery compartment lid's 4 screws and take it off.
3. Remove all 4 batteries.
4. Press the Tamper switch twice to discharge.
5. Insert the new batteries.
6. The siren will give a short confirmation tone.
7. Replace the battery compartment lid with the four screws and close the case.

C.14 WLD Wireless Water leakage detector

The water detector is designed to be used in areas where there is a potential for damaging water leaks - dishwashers, washing machines, hot water tanks, air conditioner condensation drip pans, etc.



Figure 24. Water leakage detector

C.14.1 Test

To test the detector, put the probe in a glass with little water inside and make sure the system receives the alarm. Check that you receive alarm every 3 minutes.

Appendix D Glossary

- **Alarm types:**
 - **Burglary Alarm** – An alarm caused by a violation of one or more of the zones.
 - **Fire Alarm** – An alarm initiated due to a violation of one or more of the fire zones (heat, smoke detectors).
 - **Tamper Alarm** – An alarm caused by an open tamper protection, for example when someone attempts to remove a detector or (optionally) the Control Panel from the wall.
 - **Panic/Medical/Emergency Alarm** – An alarm due to an activation of a panic/distress button or medical detector.
- **Arming modes:**
 - **Away** – Full arming of the system, best used when there is no one at home/office.
 - **Home** – Home arming is a perimeter arming of perimeter detectors as defined by the installer. For use when home/office is partly occupied.
 - **Part** – Partial arming is designed for securing one part of the premises, while leaving the other part unsecured.
- **One-Key Arming** – Allows arming the system using a single key, without the use of any code.
- **Force Arm** – Allows arming the system even if it is not ready, under the condition that all open zones will be closed by the end of the Exit delay. If the zone/s is open when the exit delay expires, an alarm is generated.
- **Chime** – "Ding-Dong" bell sound typically assigned to an entry point or back door, to indicate entry when the system is disarmed.
- **Contacts** – The system's destinations/people that receive the events reporting as well as perform some pre-defined authorized tasks.
 - **User Contact** – Private users, usually the owner of the system or other family members.
- **Disarmed** – System is in normal standby mode. Only 24 hour zones (Panic, Fire, Tamper, etc.) are active
- **Entry/Exit Delay** – The predetermined time set before triggering an alarm. Associated with the entry/exit zones defined above.
- **Events** – an occurrence of significant in the system reported to either the user or/and the monitoring center.
 - **Alarm event** – an occurrence relating to an alarm triggered or deactivated within the system.
 - **Arming event** – an occurrence relating to arming or disarming of the system.
 - **Visual event** – an occurrence of an event sent together with 3 images for verification.
 - **Event Group** – a group of events defined by type, for which you would like to receive notifications.
- **The Control Panel** – is where the user can activate/deactivate the alarm system as well as change the various system configurations. This is the heart and brains of the system which also includes the system's communication module.
- **Detectors/Devices/Peripherals:**
 - **SmartView** – Visual enhanced PIR detector,
 - **PIR** – Passive Infrared Detector – Apparent motion is detected when there is a movement of humans or animals within the protected area; detection is based on the heat emission of humans.

- **Door Contact** – A detector comprising a magnetically operated reed switch and a separate magnet. Usually used on doors and windows to detect whether the door or window is opened or closed.
- **Key fob** – A small remote control that can be used to arm/disarm the system.
- **Smoke detector** – A sensing device which detects smoke or visible or invisible particles of combustion
- **Panic button** – A button that triggers an alarm, setting off a precipitous emergency response.
- **System Ready** – System is ready for arming: all zones that are part of the defined arming mode are closed.
- **Users** – This shows the various users defined in the system and their permissions.
 - **Regular User** – can arm/disarm the system and view the system's general status.
 - **Master User** – normally the owner of the system/protected premises. Can arm/disarm, change settings relating to the system behavior, as well as setting/changing authorized passwords.
 - **Installer** – a professional installer of intrusion systems, authorized to define and perform changes to the system's parameters. Installer access requires the Master user's permission.
- **Zones** - A protected area; connected with a detection device (detector), dependent on the protected area type (see Zone types ahead) (e.g. zone #1 = "Front Door", zone #2 = "Living Room Motion")
 - **Regular Zones** - Protection zones of various sorts including Intrusion, Fire, Distress, Medical, etc.
 - **Visual Zones** – Protected zones using a detector (usually motion), combined with a camera, used for alarm verification and/or Look-in.
 - **Zone Types:**
 - **Normal (Immediate)** – Burglary Protection zone; activates an alarm if violated when the system is armed.
 - **Entry/Exit** – Burglary Protection zone that are in the entry/exit route. A delay can be defined to allow entry/exit before system arming.
 - **Follower** – an intrusion zone that if violated while an entry/exit zone was opened, it will follow it, meaning, it will wait for the delay to be over before initiating the alarm. This zone type is typically used in the entry/exit route but also protects an additional entry point such as an outside window.
 - **24Hr** – A zone which is protected always, even when the system is disarmed. Typically used together with a tamper protection or similar device.
 - **Panic or Medical** – A zone used with permanent distress/panic buttons.
 - **Fire** – A zone used in conjunction with heat and smoke detectors.
- **Zone Bypass/Un-bypass** - To temporarily de-activate a zone/detector, so as not to trigger the alarm system while armed. This feature is usually used when a detector is defective or a window is intentionally left open

Appendix E Limited Warranty

PIMA Electronic Systems Ltd. ("the Manufacturer") warrants its products hereinafter referred to as "the Product" or "Products" to be in conformance with its own plans and specifications and to be free of defects in materials and workmanships under normal use and service for a period of twelve (12) months from the date of shipment by the Manufacturer. The Manufacturer's obligations shall be limited within the warranty period and its option, to repair or replace the product or any part thereof. The Manufacturer shall not be responsible for dismantling and/or reinstallation charges. To exercise the warranty, the product must be returned to the Manufacturer freight prepared and insured.

The warranty does not apply in the following cases: improper installation, misuse, failure to follow installation and operating instructions, alteration, abuse, accident or tampering, and repair by anyone other than the Manufacturer.

The warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express or implied, including any warranty of merchantability or fitness for a particular purpose, or otherwise. In no case shall the Manufacturer be liable to anyone for any consequential or incidental damages for breach of this warranty or any other warranties whatsoever, as aforesaid.

This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products. The Manufacturer does not represent that its Product may not be compromised and/or circumvented, or that the Product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. User understands that a properly installed and maintained alarm may only reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance of a guarantee that such will not occur or there will be no death, personal damage and/or damage to property as a result.

The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function. However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause of origin, the Manufacturer's maximum liability shall not in any case exceed the purchase price of the Product, which shall be fixed as liquidated damages and not as penalty, and shall be the complete and exclusive remedy against the Manufacturer.

Warning: The user should follow the installation and operation instructions and among other things test the product and the whole system at least once a week. For various reasons, including, but not limited to, changes in environmental conditions, electric or electronic disruptions and tampering, the Product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.

* Patent Pending Technology

Appendix F Useful tables

Wireless Zones					
#	Zone Name	Zone Type	Location	Sensor Type	Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
Visual Zones					
25					
26					
27					
28					
29					
30					

Key fobs/Remote Control users

No.	User
1	
2	
3	
4	
5	
6	

Emergency Devices

No.	User	Type
1		Panic / Emergency
2		Panic / Emergency
3		Panic / Emergency
4		Panic / Emergency
5		Panic / Emergency
6		Panic / Emergency



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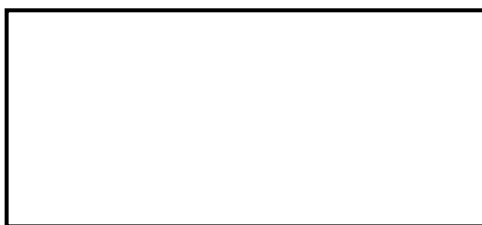
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