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FC



Defender Co, Ltd.

## **For Your Safety**

Before operating the system, please com rm the correct input power voltage.



## CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (ON BACK), NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**INFORMATION** - This equipment has been tested and found to comply with limits of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated

 $\ensuremath{\textbf{WARNING}}$  - Do not change or modify any parts or component used and approved by the manufacturer.

**WARNING** - To prevent electric shock and risk of fire hazards: Do NOT use power sources other than that specified. Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

# Away Arm: Press Button A for 3 Sec Home Arm: Press Button H for 3 Sec

• Disarm: Press (4 Digit Password)

**Defender Alarm Shortcut Key** 

- Bypass Zone: Press \*(4 Digit Password)(No of Zone)#
- Change Password: Press \*6(4 Digit Password)0 (New 4 Digit Password)(New 4 Digit Password)
- Tel No Setting: Press \*7(4 Digit Password)1(Tel. No)#
- 1 for setting User 1, 2 for User 2, 3 for User 3, 4 for User 4

## **Telephone Control Manual**

- 4 Digit Password is 1234
- Press 0 to Disarm
- Press 1 to Arm
- Press 2 for Home Automation Control
- Press 3 for Bypass Setting
- Press 4 for Panic Alarm
- Press # to Exit

## Monitor • Control • Surveillance

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1       Image: state of the s	Description	Zone	Entrance	Internal Delay	Instant	24 hour
3		1				
4		2				
5              6 <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td>		3				
6						
7						
8						
Image: state stat		8		++		
Image: state stat				++		
Image: state of the state						
Image: state of the state				++		
Image: state stat				+ +		
Image: state stat				+ +		
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		r		1		
Entry Time []		l		]		
Entry Time [] Exit Time []	Bell Cut Off Ti	me [		]		
Entry Time []						
Entry Time [] Exit Time []	Telenhone					
Entry Time [] Exit Time [] Bell Cut Off Time []	-	a hefore and	Nor [		1	
Entry Time [] Exit Time []	Each number				l	

1 [\_\_\_\_\_ 2 [\_\_\_\_\_ 3[\_\_\_\_\_]

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This information is provided to ensure your safety and to prevent any losses. Please read it carefully and use the product accordingly.
*For product inquiries, please contact the retail shop where you bought the system.
• Please make sure the product is installed at proper place to insure system operate properly.
Warning/Attention/Special Mark Messages
Ignoring this information may result in death or serious personal injuries.
Indicates"Never Allowed." Indicates"No Disassembling."
Correct Disposal of This Product (Waste Electrical & Electronic Equipment) Applicable in the European Union and other European countries with separate collection systems)
This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contact. This product should not be mixed with other commercial wastes for disposal.

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Warning & Cautions

## LIMITED WARRANTY

## **Precautions**

Do not install system under extreme temperatme conditions or in high humidity environment.



Use only under temperature conditions between  $-10^{\circ}$ C and  $+50^{\circ}$ C. Provide good ventilation when using in high temperature conditions. Manufacturer warrants original purchaser twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, manufacturer, at its option, repair or replace any defective product upon return of the product to its factory.

## **International Warranty**

The warranty for international customers is the same as for any customers within malaysia, with the exception that manufacturer shall not be responsible for any customs fees, taxes, or VAT that may be due.

## **Conditions to Void Warranty**

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping, handling, improper maintenance or improper application.
- damage caused by disaster such as fire, floor, wind, earthquake or lightning.
- damage due to causes beyond the control such as excessive voltage, mechanical shock or water damage.
- damage caused by unauthorized attachment, alterations, modifications or foreign objects.
- damage caused by peripherals.
- defects caused by failure to provide a suitable installation environment for the products.
- damage caused by use of the products for purposes other that those for which it was designed.

## **Out of Warranty Repairs**

Manufacturer will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Manufacturer must first obtain an authorization number. Manufacturer will not accept any shipment whatsoever for which prior authorization has not been obtained. Product which Factory determines to be repairable will be repaired and returned. Products which factory determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit for the case is defer mines out of warranty.

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## Maintenance

The system requires minimum maintenance.

- 1. Do not wash the keypad with a wet cloth. Light dusting with a barely damp cloth should remove normal accumulations of dust.
- 2. It is recommended that the standby battery be replaced every year.

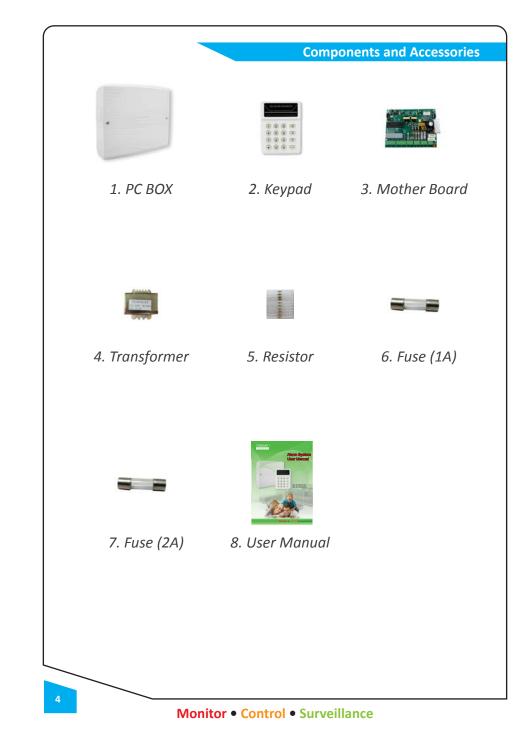
## WARNING

This system is an advanced security system, it does not offer guaranteed protection against burglary, fire or other emergency. Whether commercial or residential.

## Remember

Intruders may gain access through unprotected openings or have the technical sophistication to bypass an alarm sensor or disconnect an alarm warning device. Intrusion detector (e.g. passive infrared detectors), smoke detectors, and any many other sensing devices will not work without power.

Battery-operated devices will not work without batteries, with dead batteries, or if the batteries are not put in properly. Some device may have sensing limitations.



## About Your Security System

This equipment has been designed to give the highest flexibility and convenience. Read this manual carefully and have you installer instruct you on system operation and on which features have been implemented in your system.

## **Important Notice**

To ensure that you system continues to functions as intended, it is important that you check & test your system every 2 weeks.

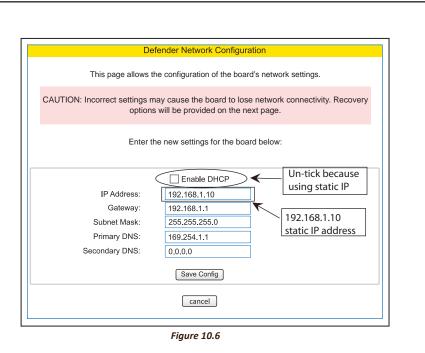
If your system does not function properly, call your installer for service.

A security system cannot prevent emergencies.

Remember it is only intended to alert you and, monitoring of an emergency situation.

This security systems is reliable but may not work under all conditions and not substitute for prudent security practices of life and property insurance.

Your security systems should be installed and serviced by qualified security professionals who should instruct you on the level of protection that has been provided and on system operations.



c. If want to change back to Dynamic DHCP after Static, just tick the ENABLE DHCP at Network configuration then follow the steps in 4.0 (b).

## 5.0 Default factory setting

a. If unable to connect to DSA due to incorrect setting, user can reset DSA to factory default setting. b. Turn off the DSA power, then press the reset button and turn on the power. Continue pressing the button until the LED flashes release the button.

6.0 Security Features

a. For security purpose, the browser will auto logout after some time. This is because user might forget to logout.



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## **SUMMARY OF SYSTEM**

## 9.0 Default factory setting

- a. If any mistake cause the DSAW unable to connect, set to factory default setting is needed.
- b. Off the DSAW power, press the reset button and on the power, continue holding the button until the LED flash then release the button.
- c. After reset, the DSAW network setting was returned to default factory setting and the Username was reset.

#### 10.0 Security of DSAW

- a. For security purpose, the DSAW will auto logout to login page after some time when do some instructions.
- b. If access the DSAW by illegal (without login the username and password), the information of defender smart alarm will hide or automatically return back to login page.

## **Central Features**

- 2 Programmable Partitions
- 2 Programmable phone numbers for CMS reporting
- 2 Programmable account numbers for CMS reporting
- 2 Arm Modes: Away & Home
- 8 Full programmable zone

## **Speech Dialer**

Support 4 programmable phone numbers for voice messages reporting. Only master code holder has full access to phone remote operation.

## Keypad

Support up to 4 keypads per system

## Access Code

Support 3 level authorizations: Installer, Master, User Support 1 installer code, 1 master code, 8 user code Default installer code is [1397] Default master code is [1234]

## **Remote Operation Functions Include**

Secure remote communications using security codes Remote operation via touch / mobile phone Zone status check Arm & Disarm Zone bypass Home automation control

## **PROGRAMMING THE CONTROL PANEL** The programming menu can only be accessed when the control panel is fully disarmed

To Enter The Programming Menu Press [\*] [o] follow by [installer code] to access the system programming menu. Key in the address code 2 digit [] [] To exit the programming menu, press [#]

#### To Set The Entry Time

Press [\*] [o] follow by [installer code] to access the system programming menu Press [40] Enter the entry timer [][][] Press [#] to save & exit programming menu

## To Set The Exit Time

Press [\*] [o] follow by [installer code] to access the system programming menu Press [42] Enter the exit timer [][][] Press [#] to save & exit programming menu

#### To Set The Silent Zone

Press [\*] [o] follow by [ installer code] to access the system programming menu Press [16] Enter the zone number Press [#] 2 time to save & exit programming menu

## To Activate The Remote Control

Press [\*] [o] follow by [installer code] to access the system programming menu, Press [33] Light on the zone 7 and zone 8 LED, Press [#] 2 time to save & exit programming menu.

## **To Reset Panel**

Press [\*] [o] follow by [installer code] to access the system programming menu, Press [99] Press [#] 2 time to save & exit the programming menu.

## To Change The Sensitivity of Zone Respond

Press [\*] [o] follow by [installer code] to access the system programming menu, press [45] Enter the value [][][], Example: High sensitive [001], low sensitive [255] Press [#] to save & exit programming menu.

## To Change Master Code

The system must be disarm, Press [\*] [6] follow by old master code [1234] (default) Press [0] Enter new master code for 2 time [xxxx] [xxxx] (4 digit)

## To Add User Code

The system must be disarm, Press [\*] [6] follow by [master code] (4 digit) Press user number [x], maximum can set up to 8 user Enter new user code for 2 time [xxxx] [xxxx] (4 digit)

## To Add The Phone Number

The system must be disarm, Press [\*] [7] follow by [master code] (4 digit) Press user number [x], maximum can set up to 4 user Press the user phone number [ ] Press [#] after finish, to save & exit Programming menu.

## To Delete The Phone Number

Press [\*] [7] follow by [master code] (4 digit) Press user number [x], which want to delete Press [#] to save & exit Programming menu.

## To Turn On / Off The Chime Mode

The system must be disarm, Press [\*] [81] Press [zone number] which want to on/off chrime mode. Press [#] to save & exit programming menu.

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	Defender Net	work Configuration	
	Defender Net	work configuration	
TION: Incorrect set	tings may cause t	he board to lose network	connectivity. Recovery
	options will be pro	ovided on the next page.	
		Enable DHCP	
	IP Address:	192.168.1.2	
	Gateway:	192.168.1.1	
	Subnet Mask:	255.255.255.0	
	Primary DNS:	169.254.1.1	
	Secondary DNS:	0.0.0.0	
	Port Number:	8080 🗲	New Port Number
	S	Save	
	Ca	ancel	

C

#### Figure 8.1 Network Setting

🐼 C:\WINDOWS\system32\cmd.exe	- 🗆 ×
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	<u>^</u>
C:\Documents and Settings\USER>nbtstat -R Successful purge and preload of the NBT Remote Cache Name Table.	
C:\Documents and Settings\USER>ping defender	
Pinging defender [192.168.1.2] with 32 bytes of data:	
Reply from 192.168.1.2: bytes=32 time=1ms TTL=100 Reply from 192.168.1.2: bytes=32 time=1ms TTL=100 Reply from 192.168.1.2: bytes=32 time=1ms TTL=100 Reply from 192.168.1.2: bytes=32 time=1ms TTL=100	
Ping statistics for 192.168.1.2: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Mininum = 1ms, Maxinum = 1ms, Average = 1ms	
C:\Documents and Settings\USER>_	
	-
Figure 8.2 Command Prompt	
en the browser and key in http://defender:8080. Successfully accessed the login page to figure 3.0.	was showr

Defender N	etwork Configuration
	e the board to lose network connectivity. Rec rovided on the next page.
options will be p	Tovided off the next page.
	Enable DHCP
IP Address	: 192.168.1.2
Gateway	: 192.168.1.1
Subnet Mask	: 255.255.255.0
Primary DNS	: 169.254.1.1
Secondary DNS	: 0.0.0.0
Port Number	8088
ſ	Save
Ĺ	Save
L	cancel
Figure 8.0	0 Network Setting
date the new nort number just key in the	new port number at Port Number text box

6.0 Configuration DSAW's Port number

- ii. Key in "nbtstat -R" command. "Successful purge and preload of the NBT Remote Cache Name Table" message was shown at figure 8.2.
- iii. Key in "ping defender" command to ping DSAW. A successfully reply message was shown at figure 8.2.

## To Bypass Zone

The system must be disarm, Press [\*] [4] follow by [master code] The **BYPASS LED** will turn on Enter the zone number to by passed. Press [#] to save & exit programming menu. (The LED at zone that is bypass will **Keep Flashing**)

## To Unbypass Zone

The system must be disarm, Press [\*] [4] follow by [master code] The BYPASS LED will turn on Enter the zone number to unbypass. Press [#] to save & exit programming menu. (The LED at zone that is unbypass will **Stop Flashing**)

## To Set The System Time

The system must be disarm, Press [\*] [1] follow by [master code] Press [30] Enter the time [HHMM] Press [#] to save & exit Programming menu.

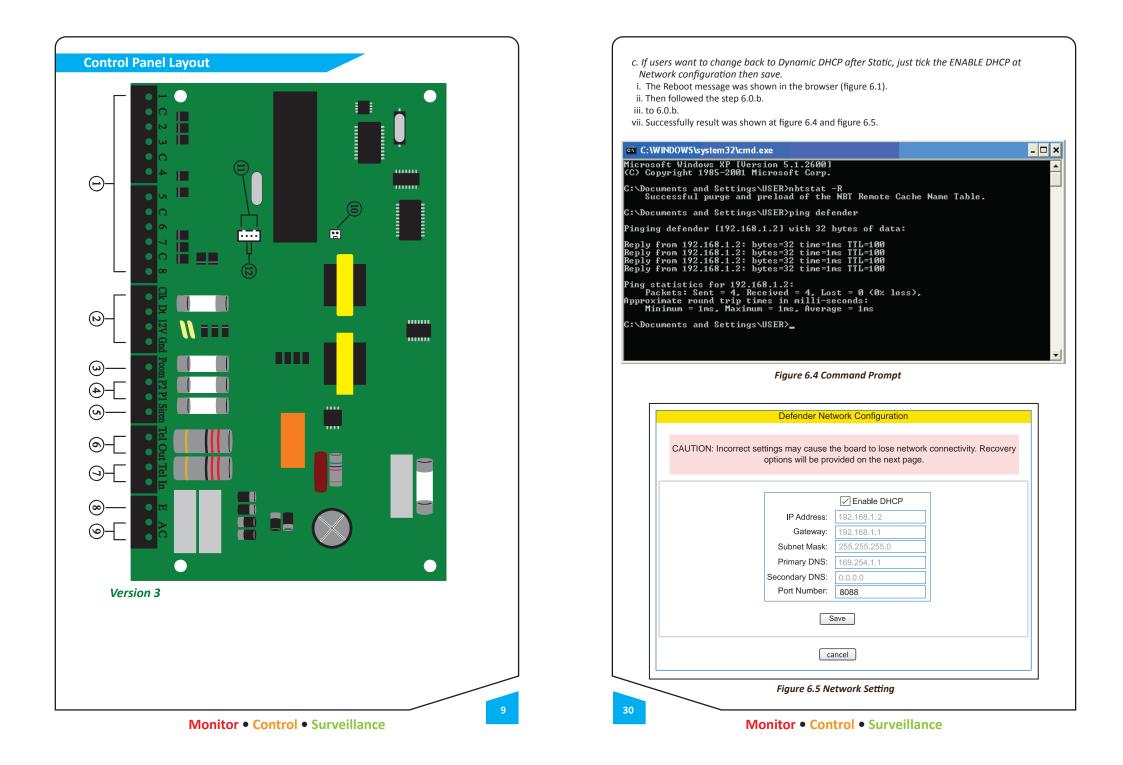
## To Set The System Date

The system must be disarm, Press [\*] [1] follow by [master code] Press [31] Enter the date [DDMM] Press [#] to save & exit programming menu.

## To Set The System Year

The system must be disarm, Press [\*] [1] follow by [master code] Press [32] Enter the Year [YYYY] Press [#] to save & exit Programming menu.

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- iii. Follow the reboot message, close the browser and open the command prompt. If users used window vista or window 7 (latest OS), please open the command prompt as "run as administrator".
- iv. Key in "nbtstat R" command. "Successful purge and preload of the NBT Remote Cache Name Table" message was shown at figure 6.2.
- v. Key in "ping defender" command to ping DSAW. A successfully reply message was shown at figure 6.2 with new Static IP address (192.168.1.10).

# Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp. C:\Documents and Settings\USER>nbtstat -R Successful purge and preload of the NBT Remote Cache Name Table. C:\Documents and Settings\USER>ping defender Pinging defender [192.168.1.10] with 32 bytes of data: Reply from 192.168.1.10: bytes=32 time=2ms TTL=100 Reply from 192.168.1.10: bytes=32 time=1ms TTL=100 Reply from 192.168.1.10: bytes=32 time=1ms TTL=100 Reply from 192.168.1.10: bytes=32 time=1ms TTL=100

Ping statistics for 192.168.1.10: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Mininum = 1ms, Maximum = 2ms, Average = 1ms

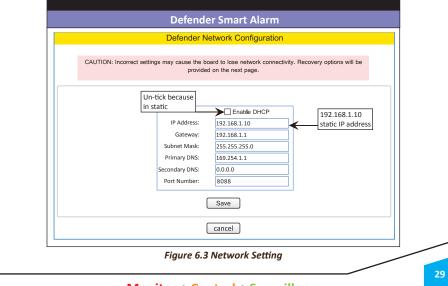
C:\Documents and Settings\USER>\_

C:\WINDOWS\system32\cmd.exe

Figure 6.2 Command Prompt

vi. DSAW have been successfully configured to static IP address. Open the browser and login to DSAW by key in http://defender:8088. (Figure 3.0).

vii. Go to the Network setting, the updated information was shown at figure 6.3.



## 1. Zone input 1 to 8

Terminal is use for connect the sensor or detector such as magnetic, vibration or PIR sensor with 1K resistor.

## 2. Keypad Connector

Terminal is provide connection for the keypad, can connect up to 4 keypad at the same time to control at differ place.

## 3. Pcom

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Terminal is provide 12v power positive to the device that require 12v power.

## 4. P2 & P1

Terminal is use for Home Automation Output, to drive auxiliary devices such as LED or Relay.

## 5. Siren Terminal is use to connect to the siren negative.

6. Tel Out Terminal is for other telephone extension sockets.

7. Tel In Terminal is for incoming phone line.

8. Earth Ground Connection Terminal is to earth or an earth rod.

9. Ac Input Terminal is for 16v transformer.

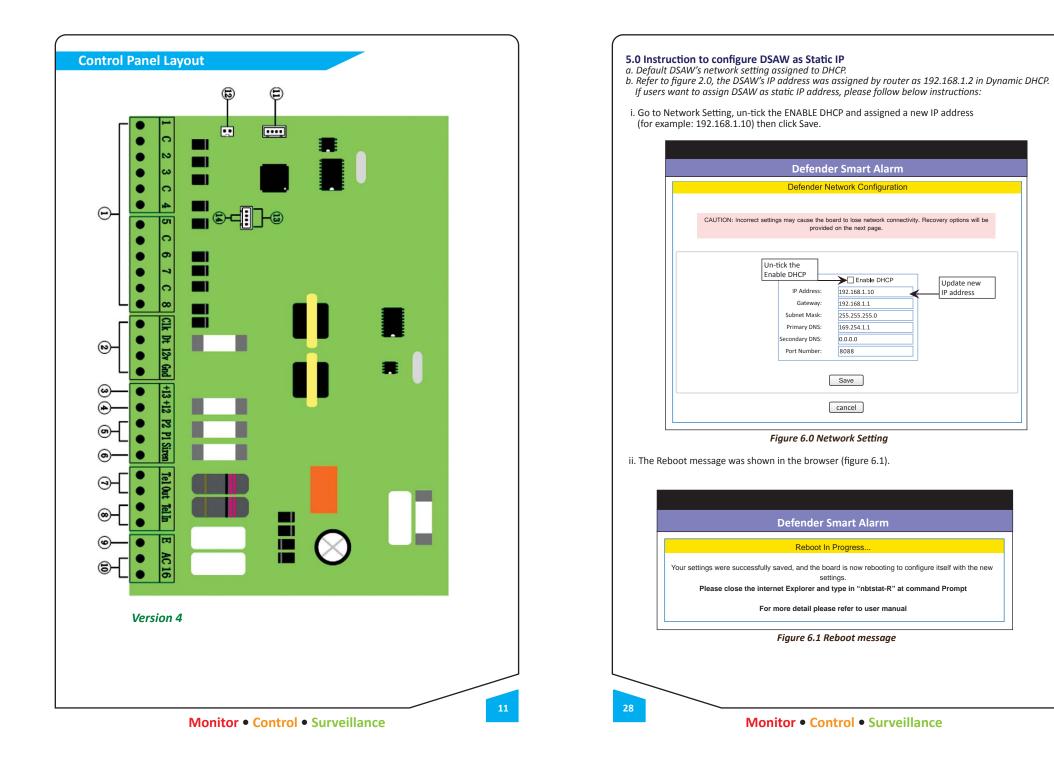
## 10. Remote control Terminal is use to connection the remote control use to activate the alarm thought the remote control.

11. Web Server Terminal is use to connection the web server module.

## 12. Hard Reset

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Terminal is use to restore the panel to the defaults setting, need to connection the pin 2 and pin 3 together at the web server port and power up the panel power.



IP address

*d. Password Setting (figure 4.4)*Maximum 4 digits numeric

		Defender Alarm	Board Configuration	
User Passwor	rd ———			
	USER	PASSWORD	NOTE	
	1	1111		
	2	2222		
	3	3333		
	4	4444	To enable the button SET Please key in 4 digits for	
	5	5555	each user password and same password are forbidden	
	6	6666		
	7	7777		
	8	8888		
		SE	T	
L				
		car	ncel	

Figure 4.4 Password Setting

## e. Status Log (Figure 4.5)

• Reload button - for reload the latest information. Maximum show 1000 events, after 1000 events, the next events will show at first location.

11/10/2010 10:19 11/10/2010 10:19	Remote Disarm	Partition 1 User 3		
		1 41 41 01 1 0301 5		1000 event
	Remote Arm	Partition 1 User 3		
11/10/2010 10:19	Remote Disarm	Partition 2 User 2		
11/10/2010 10:19	Remote Disarm	Partition 1 User 2		
11/10/2010 10:19	Remote Arm	Partition 2 User 2		
11/10/2010 10:19	Remote Arm	Partition 1 User 2		
11/10/2010 10:09	Remote Disarm	Partition 2 Master		
11/10/2010 10:09	Remote Disarm	Partition 1 Master		
11/10/2010 10:09	Remote Arm	Partition 2 Master		
11/10/2010 10:09	Remote Arm	Partition 1 Master		
11/10/2010 10:01	Periodic Test Report	-		
11/10/2010 09:25	24 Hour (safe) Alarm	Partition 2 Zone 8		
11/10/2010 09:21	Remote Disarm	Partition 2 Master		
11/10/2010 09:21	Remote Disarm	Partition 1 Master		
11/10/2010 09:21	Remote Arm	Partition 2 Master	$\sim$	¥
	Reload cancel	]		

## 1. Zone input 1 to 8

Terminals use for connect the sensor or detector such as magnetic, vibration or PIR sensor

## 2. Keypad Connector

Terminals provide connection for the keypad, can connect up to 4 keypad at the same time to control at differ place

## 3. +13

Terminals provide 13v power positive, use to supply remote control power and external siren power only can't connect with strobe light.

## 4. +12

Terminals provide 12v power positive to the device that require 12v power.

## 5. P2 & P1

Terminals use for Home Automation Output, to drive auxiliary devices such as LED, Sounder or Relay.

6. Siren Terminals use to connect to the siren negative.

7. Tel Out Terminals for other telephone extension sockets.

8. Tel In Terminals for incoming Phone line

9. Earth Ground Connection Terminals to earth or an earth rod

10. Ac Input Terminals for 16v transformer

11. Wireless Module Terminals use to connection the wireless module

12. Remote control Terminals use to connection the remote control, to activate the alarm through the remote control.

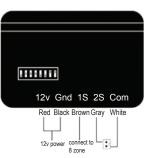
13. Web Server Terminals use to connection the web server module

## 14. Hard Reset

Terminals use to reset the program to defaults setting, need to connection the pin2 and pin3 together at the web server port and power up the panel power.

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## REMOTE CONTROL CONNECTION LAYOUT



Panel Cik Dt 12v Gnd

**KEYPAD CONNECTION LAYOUT** 

+V & -V - connect to 12V DC power supply. 1 S - Connect 1 S to zone 8 2 S - Connect 2 S to pin number 2 Com - Connect com to pin number 1

(1 S is use for panic button)(2 S is use for Arm and Disarm System)

## ZONE PROGRAMMING

Zone Type	Address			De	fault Zon	е Туре			
zone rype	Zone	1	2	3	4	5	6	7	8
Delay	10	٠							
Internal Delay	11		•						
Internal	12								
Instant	13			•	٠	•	٠	٠	
24 Hour	14								•
Fire	15								
Silent	16								
Normally Open	17								
Zone Respond	18								
Intelligent Zone 1	19								
Intelligent Zone 2	20								
Zone Partition1	21	•	•	•	•	•	•	٠	•
Zone Partition2	22								
Auto Reset Zone	23	•	•	•	•	•	•	٠	٠
CMS Zone Report	24	٠	•	•	•	•	•	٠	•
Partition 1 user	25	•	•	•	•	•	•	•	•
Partition 2 user	26								
			1		1	1	( •	is defau	It settir

## 4.1 Con guration DSAW

a. Zone setting ( gure 4.1)

- Location name the location for each zone (max 10 characters).
- Camera Link IP camera web link for each zone (max 40 characters).

		Defende	er Alarm Board Configuration							
Ala	arm Sensor Zone									
	ZONE	LOCATION	CAMERA LINK							
	ZONE 1	Garden	http://www.zonelink1.com.my							
	ZONE 2	Dining	http://www.zonelink2.com.my							
	ZONE 3 Kitchen http://www.zonelink3.com.my									
	ZONE 4	Fence	http://www.zonelink4.com.my							
	ZONE 5	http://www.zonelink5.com.my								
	ZONE 6 Hall http://www.zonelink6.com.my									
	ZONE 7 Front Door http://www.zonelink7.com.my									
	ZONE 8	Back Door	http://www.zonelink8.com.my							
	save									
		Fig	gure 4.1 Zone setting							
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- b. Refer to figure 4.0.
- Status condition for each zone in Arm, Trigger, Ready, Open or Bypass status.
- Last Trigger indicate which zone was triggered after disarm.
- Camera Link IP camera link for each zone.
- Bypass indicate which zones have been bypass.
- c. Functionality of DSAW.
- ARM to arm the alarm system
- DISARM to disarm the alarm system
- BYPASS to set or clear the zone bypass
- d. Configuration of DSAW (only master authenticate)
- Zone Setting to define zone location and IP Camera Link for each zone.
- Timer Setting auto arm or disarm the alarm system and auto turn on or off the light follow timer (24 hour format).
- Network Setting Configure DSAW's network setting in Dynamic (IP address assign by router) or Static (IP address assign by user) and Port number.
- Password Setting change the user's login password (only 4 digits acceptable).
- Status Log to indicate who and what activities done on DSAW.
- Logout logout the DSAW.

## Technical Data

**Delay** - The zone will not cause an alarm during the entry / exit delay time.

Internal Delay - The zone will not cause an alarm during the delay time at Away mode and will not caues an alarm during home mode.

Internal - The zone will not cause an alarm during home arm mode.

Instant - The zone will cause an instant alarm when the system is arm.

24 Hour - The zone will cause instant alarm regardless of system arm / disarm.

Fire - The zone will cause a unique alarm with distinctive 'fire' tone if it is violated regardless of system arm / disarm

*Silent* - The siren will not sound when the zone open.

Normally Open Zone - The zone can be assign to normally open or normally close

Zone Respond - Have 2 different respond time: 'on' mean slow respond, 'off' mean fast respond.

Intelligent Zone 1 & 2 - The zone will not trigger siren before the zone counter and zone reset timer expires.

Zone Partition 1 & 2 - Partition allow the system to be divided into areas of protection so that different partition can be arm and disarm independently from each other.

Auto Reset Zone - The zone will restore and become normal after the bell time.

CMS Zone Report - The panel will report the zone status to the CMS center

Partition 1 & 2 User - To assign the user to access the partition.

(Default: All user can access to partition 1 only)

## SYSTEM SETTING

СМЅ	Address	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Reporting	30	•	•	•	•	•	٠	٠	

Zone 1 - Report Panic Zone 2 - Report Duress Zone 3 - Report Arm / Disarm Zone 4 - Report AC Fail Zone 5 - Report enter / exit programming mode
Zone 6 - Report Telephone line fault
Zone 7 - Report Bypass
Zone 8 - Report Battery low

## Technical Data

## Report Panic

On - The panel will report panic to the centre Off - The panel will not report panic to the centre

## Report Duress

On - The panel will report Duress to the centre Off - The panel will not report Duress to the centre

## Report Arm / Disarm

On - The panel will report Arm / Disarm to the centre Off - The panel will not report Arm / Disarm to the centre

## Report AC Fail

On - The panel will report AC Fail to the centre

Off - The panel will not report AC Fail to the centre

## Report Enter / Exit Programming Mode

On - The panel will report Enter / Exit programming to the centre Off - The panel will not report Enter / Exit programming to the centre

## Report Telephone Line Fault

On - The panel will report telephone line fault to the centre

off - The panel will not report telephone line fault to the centre

## Report Bypass

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On - The panel will report Bypass to the centre Off - The panel will not report Bypass to the centre

## **Report Battery low**

On - The panel will report battery low to the centre Off - The panel will not report battery low to the centre

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Communicator	Address	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Setting	31	•			•		•		

Zone 1 - Enable personal resporting Zone 2 - Enable CMS resporting

Zone 4 - Enable Fix line

Zone 6 - Enable skip password protect

## **Technical Data**

## Enable personal resporting

On - The panel will report the event to the user Off - The panel will not report the event to the user

## Enable CMS resporting

On - The panel will communicate with the CMS centre

Off - The panel will not communicate with the CMS centre

#### **Enable Fix line**

On - The panel will communicate using telephone line Off - The panel will not communicate using telephone line

#### Enable Skip password protect

On - When call out the user don't have to key in password Off - When call out the user have to key in password

System	Address	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Option	33	•	•	٠	٠	•	•	•	

Zone 1 - Keypad buzzer on during entry delay Zone 2 - Keypad buzzer on during exit delay Zone 4 - DTMF dialing

Zone 5 - Arm using H or A

#### Keypad buzzer on during entry delay

On - The keypad will produce the entry tones Off - Entry tones will not produce

## Keypad buzzer on during exit delay

On - The keypad will produce the exit tone Off - Exit tone will not produce

## DTMF dialing

On - The panel will dial using DTMF tone Off - The panel will dial using older pulse tone

Arm using H or A On - Enable arm using H or A key Off - Disable arm using H or A key

#### Button P

On - Enable using button P for panic button Off - Disable using panic button

Zone 6 - Panic button P Zone 7 - Remote control Zone 8 - Bell squawk

## **Remote Control**

On - The panel will Enable remote control Off - Disable remote control

## **Bell Squawk**

On - The panel siren will pulsed once\_when the system is arm, pulsed twice when the system is disarm Off - The siren will behaves normally on arm and disarm

## 4.0 8 zones alarm panel status

a. The status of 8 zones home alarm panel status will shown as below after login ( gure 4.0).

		ZONE	STATUS	LAST TRIGGER	CAMERA LINK	BYPASS	
		Zone 1			Camera		
		Garden	Ready		Link	Set/Clear	
		Zone 2	Deedu		Camera		
		Dining	Ready		Link	Set/Clear	
		Zone 3	Deedu		Camera	Cat/Class	
		Kitchen	Ready		Link	Set/Clear	
		Zone 4	Death		Camera		
		Fence	Ready		Link	Set/Clear	
		Zone 5	Deedu		Camera	Set/Clear	
		Corridor	Ready		Link	Set/Clear	
		Zone 6	Deedu		Camera	Cat/Class	
		Hall	Ready		Link	Set/Clear	
		Zone 7	Decel		Camera	Set/Clear	
		Front Doo	Ready		Link	Set/Clear	
		Zone 8	Deedu		Camera	Set/Clear	
		Back Dooi	Ready		Link	Set/Clear	
Ala	rm syste	am arm		Disarm Sele		Iarm system di	sarm
Ald	1111 3 9 3 0			DISAR	Refresh		If the setting of PGM1 and PGM2
		Z	DNE :	STATUS	SWITCH	NOTE	are 104, 105, 106, 107, it will no allow
		Li	ght 1				to turn on/off manually. Refer to
		ן Ir	side	ON ON	On/Off		Installer manual for
Configu DSA	uration	Li	ght 2				PGM definition
		OL	tside	ON ON	On/Off	<	On/Off the light
Ň	✓	_					
		Zone Setting		Timer Sett	ing	Network Set	ting

Status Log Figure 4.0 Defender 8 zone alarm panel status

Monitor 

Control

Surveillance

24

Password Setting

Monitor 

Control

Surveillance

Logout

b. Username maximum can be register with 8 characters.

c. Username can be register as alphanumeric with uppercase or lowercase.

Defender Smart Alam
Login Name Registration
Login Name :
Login name is registered. To reset login name, power off the web server. Then press the button on web server while it is turn on and keep pressing for 5 seconds.
Figure 3.2
The username only can be registered one time only, after successfully registered username it will automatically link to login page (gure 3.2). If users forget the username, it need to power off the web server. Than press the button on web server while it is turn on and keep pressing for 5 seconds.
After successfully reset the username, it will automatically link to login page ( gure 3.1).

Time Setting	Address	<b>Default Value</b>	Unit	
Entry 1	40	040	sec	
Entry 2	41	040	sec	
Exit 1	42	120	sec	
Exit 2	43	120	sec	
Bell Time	44	005	minute	
Fast respond	45	008	ms	
Slow respond	46	015	ms	
Intelligent counter 1	47	002	times	
Intelligent counter 2	48	003	times	
Intelligent reset timer 1	49	010	minute	
Intelligent reset timer 2	50	030	minute	
Home Automation 1	51	103	manual trigger	
Home Automation 2	52	103	manual trigger	
Keypad lock digit	55	032	times	
Keypad lock time	56	060	sec	
Communicator dialing time	57	040	sec	
Communicator idle time	58	100	sec	
Communicator dial loop	59	003	times	
Answer ring	60	006	ring	
Communicator password error auto hang up	61	020	times	
CMS periodic report	62	024	hour	
echnical Data htry 1 - The system uses this timer to allow the user time an be set from 000 to 255 sec) htry 2 - The system uses this timer to allow the user time an be set from 000 to 255 sec)	to access the	keypad and disarn keypad and disarn	n partition 1. n partition 2.	
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Programming	Address	Default Value
CMS Account Number 1	70	0000
CMS Account Number 2	71	0000
CMS Phone Number 1	72	-
CMS Phone Number 2	73	-
Change Installer Code	76	1397
Reset user Code	98	-
Reset panel	99	-

## **Technical Data**

CMS Account Number - The panel will communicate with Centre Monitoring Station (CMS) using the account number

**CMS** Phone Number - The panel can call CMS using phone numbers. The primary number will be dialled rst (secondary telephone number is backup number for the primary number)

**Change Installer Code** - the default installer code is 1397. To change the installer code, the new installer code must to key in 2 times.

Reset User Code - The panel will delete all the user code. Master code will change to default password, that is '1234' Reset Panel - All the programming and password will change to default value.

## HOME AUTOMATION TIMER

Enter Programming Menu,

[\*][1][Mater code][Address][Time]

System	Address	Format
System Time	30	ннмм
System Date	31	DDMM
System Year	32	YYYY
Auto Arm Partition 1	33	ННММ
Auto Disarm Partition 1	34	ННММ
Auto Arm Partition 2	35	ннмм
Auto Disarm Partition 2	36	ннмм
Night Mode begin time	37	ННММ
Night Mode end time	38	ННММ
Control Timer 1 on	39	ННММ
Control Timer 1 off	40	ннмм
Control Timer 2 on	41	HHMM
Control Timer 2 off	42	ННММ
Auto Off timer	43	Minute

### Technical Data

 System Time - The option allow you to set the system time.

 System Date - The option allow you to set the system date.

 System Year - The option allow you to set the system year.

 Auto Arm Partition - The system will auto arm the selected partition.

 Auto Disarm Partition - The System will auto disarm the selected partition.

 Night Mode Time - The option allow you to set the night mode time.

 Control Timer On - Home automation on according to user setting time.

 Auto Off Timer - Home automation will auto turn off after exceed user setting time.

b. Open the browser login to DSAW. Key in http://defender:8088. Login page will show as below (Figure 3.0).

Defender Smart Alam
User Login
Username :
Password :
Remember my password
Login
Date : 1-1-2011 Time : 00:15
Figure 3.0 Login Page
3.0 Register New Username a. To register new username, please enter the IP address as http://defender:8088/protect/register.htm, Figure 3.1. Defender Smart Alam
Login Name Registration
Login Name :
Register
Figure 3.1

## **Defender Smart Alarm Webserver (DSAW)**

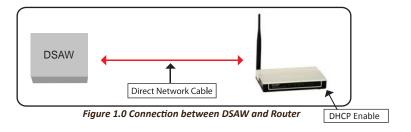
A device that allow user to check the home status and control the alarm system functionality through a web page via Ethernet.

## 1.0 Hardware – Default Factory Setting

MAC Address	- C8:1E:8E:00:00:00
IP Address	- 169.254.1.1
Gateway	- 169.254.1.1
Subnet Mask	- 255.255.0.0
Primary DNS	- 169.254.1.1
Secondary DNS	- 0.0.0.0
Port	- 8088
Web Server Usernam	ne- admin
Password	- 1234

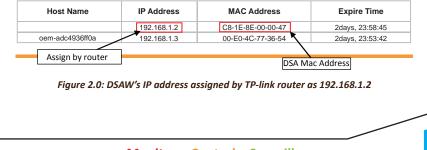
#### 2.0 Communication between DSAW and home user Router

a. Home user Router will automatically assign a Dynamic IP address to DSAW (figure 2.0). Example: TP-LINK ROUTER (TD-W8901G) with DSAW.



## **TP-LINK**°

**DHCP IP Pool Summary** 



Home Auto	mation			Value	
Zone Open	Zone Open Without Auto Off Feature				
Zone Open	With Auto Off Feature		(	016 - 023	
Zone Open	without Auto Off Feati	ure during Night Mode	. (	032 - 039	
Zone Open	Zone Open with Auto Off Feature during Night Mode				
Control follo	ow Timer 1			064	
Control follo	ow Timer 2			065	
Control follo	ow Timer 1 & 2			066	
Activate du	ring away arm withou	t auto off feature		067	
Activate du	ring away arm with au	ito off feature		068	
Activate du	ring away arm withou	t auto off feature durin	ng Night Mode	069	
Activate during away arm with auto off feature during Night Mode			Night Mode	070	
Activate follow zone trigger			(	071 - 079	
Activate follow zone trigger (Pulse signal)				087 - 094	
Manual On,	Manual On/ Off			103	
Activate wh	en trouble condition e	exist		105	
Activate wh	en fully arm			104	
Activate wh	ien zone trigger auto c	off after time exceed		106	
Activate wh	ien zone trigger auto d	off after disarm		107	
chnical Data ivate when zo nually	one open without auto	o off feature - Activate	when zone open and de	activate	
<b>e 1</b> - 000	<b>Zone 3</b> - 002	<b>Zone 5</b> - 004	<b>Zone 7</b> - 006		
<b>e 2</b> - 001	<b>Zone 4</b> - 003	<b>Zone 6</b> - 005	<b>Zone 8</b> - 007		

Activate when zone open with auto off feature - Activate when zone open and deactivate when the auto off time exceed

<b>Zone 1</b> - 016	<b>Zone 3</b> - 018	Zone 5 - 020	Zone 7 - 022
<b>Zone 2</b> - 017	<b>Zone 4</b> - 019	Zone 6 - 021	Zone 8 - 023

**Control timer 1** - The home automation output will activate follow control timer 1.

**Control timer 2** - The home automation output will activate follow control timer 2.

**Control timer 1 & 2** - The home automation output will activate follow control timer 1 & 2.

Activate during entry / exit time without auto off feature - Activate when system arm deactivate by manually.

Activate during entry / exit time with auto off feature - The home automation output will pulse 1 second when the system is arm, pulse 2 second when the system is disarm.

Follow zone trigger - Activate when zone trigger and deactivate when system disarm.

Manual On / Off - It can be turn on or off manually through keypad, telephone or internet.

Activate when full arm - It will activate the system is arm, deactivate when system is disarm.

Activate when trouble condition exit - Activate when the panel detect trouble.

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Activate when zone trigger auto off after time exceed - It will only function when the system is arm, activate when zone trigger Auto off after timer exceed.

Activate when zone trigger auto off after disarm - It will only function when the system is arm, activate when zone trigger Auto off after disarm.

## Keypad Command Summary

To all a second base of a second	Dever for each of a l
To disarm the system	Press [ master code ]
To arm in home mode	Press [ H ] 3 sec to arm all the partition in home mode
To arm in away mode	Press [ A ] 3 sec to arm all the partition in away mode
To bypass zone	Press [ * ] [ 4 ] [master code] [zone] [ # ]
Display memory	Press [ * ] [ 5 ]
Change master code	Press [ * ] [ 6 ] [master code] [ 0 ]
	[new master code 2 time]
Add user code	Press [ * ] [ 6 ] [master code] [user number]
	[new user code 2 time]
Add duress code	Press [ * ] [ 6 ] [ master code ] [ 9 ] [ new duress code 2 time]
Delete user code	Press [ * ] [ 6 ] [master code] [user number] [ * ]
Set phone number	Press [ * ] [ 7 ] [master code] [user] [phone number] [ # ]
Display trouble	Press [ * ] [ 50 ] 1. AC Fail 7. Time Fail
	2. Battery Low 8. Date Fail
	3. CMS Fail
Chime mode	Press [ * ] [ 81 ] [zone number]
Walk test	Press [ * ] [ 82 ] [zone number]
Testing CMS	Press [ * ] [ 83 ]
Home automation	Press [ * ] [ 9 ] [ 1 ] on/off home automation 1
	[ 2 ] on/off home automation 2
	[ 5 ] on all home automation
	[ 6 ] off all home automation
To exit	Press [ # ]

## **Technical Data**

Default master code [ 1234 ]

Maximum 8 user code, 1 master code and 1 duress code, Max. 4 user phone number

## **Smart Dialer Operation Summary**

Кеу	Status
0	Disarm System
1	Arm System
2	Home Automation
3	Bypass Zone
4	Panic Alarm
8	Check Alarm Manu
9	Repeat Alarm Status
#	Hang up
	/

		Partition Summar			
To arm / disarm the sy	/stem	Press [ master code ] [ 0 ] arm / disarm all the partition Press [ master code ] [ 1 ] arm / disarm partition 1 Press [ master code ] [ 2 ] arm / disarm partition 2			
To arm in home mode		Press [ H ] 3 sec to arm all the partition in home mode			
To arm in away mode		Press [ A ] 3 sec to arm all the partition in away mode			
To bypass zone		Press [ * ] [ 4 ] [master code] [zone] [ # ]			
Display memory		Press [ * ] [ 5 ]			
Change master code		Press [ * ] [ 6 ] [master code] [ 0 ]			
		[new master code 2 time]			
Add user code		Press [ * ] [ 6 ] [master code] [user number]			
		[new user code 2 time]			
Add duress code		Press [ * ] [ 6 ] [ master code ] [ 9 ] [ new duress code 2 time			
Delete user code		Press [ * ] [ 6 ] [master code] [user number] [ * ]			
Set phone number		Press [ * ] [ 7 ] [master code] [user] [phone number] [ # ]			
Display trouble		Press [*] [50] 1. AC Fail 2. Patron Low 7. Time Fail			
		2. Battery Low 7. Time Fail 3. CMS Fail 8. Date Fail			
Chime mode		Press [ * ] [ 81 ] [zone number]			
Walk test		Press [ * ] [ 82 ] [zone number]			
Testing CMS		Press [ * ] [ 83 ]			
Home automation		Press [*][9][1] on/off home automation 1			
		[2] on/off home automation 2			
		[5] on all home automation			
		[ 6 ] off all home automation			
To exit		Press [ # ]			
Fechnical Data Default master code Maximum 8 user cod Maximum 4 user pho Smart Dialer Opera	le, 1 mast one numb				
	T				
Кеу	Sta	atus			
<b>Кеу</b> 0		sarm System			
	Dis				
0	Dis	sarm System			
0 1	Dis Ari Ho	m System			
0 1 2	Dis Ari Ho By	sarm System m System ome Automation			
0 1 2 3	Dis Arr Ho By Pa	sarm System m System ome Automation pass Zone			
0 1 2 3 4	Dis Arr Ho By Pa Ch	sarm System m System ome Automation pass Zone nic Alarm			