
LS-10

The Magic Box

HOME MANAGEMENT GATEWAY



OPERATION MANUAL v2.01

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INTRODUCTION

Thank you for purchasing the LS-10 Web Based Home Management Gateway.

By adopting modern embedded system and Cloud Server technologies, the LS-10 is designed to provide all the most advanced features to meet your home management requirements through Internet.

The LS-10 not only provides you a secure life but also a convenient living environment that allows you to control as many as 15 programmable switches through a cloud server, mobile App. or a PC by using **HyperSecureLink** software from all over the world. With different environmental sensors, the LS-10 also plays as an environmental monitor center to collect all the environmental data and control corresponding appliances to save your energy consumption automatically.

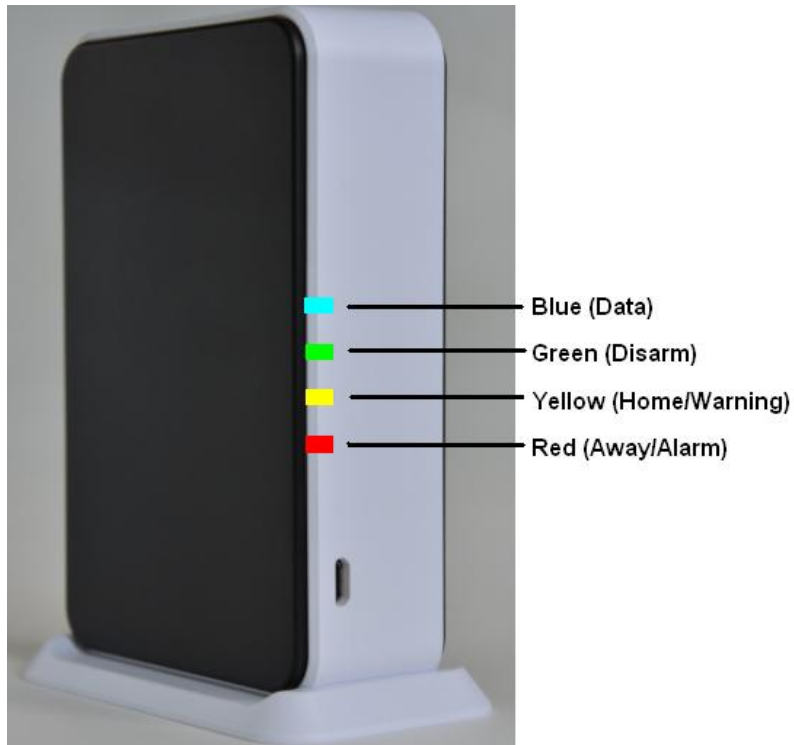
As your requirements grow and you become more familiar with the system, you can expand and accessorize the LS-10 to meet your specific needs. Simply call your local dealer; trained professionals can answer any questions you have regarding additional accessories.

Main Features:

- Low cost high performance wireless Smart Home Management Gateway with security, environment monitoring, automation control and energy saving suitable for Web Based Service.
- Setting, controlling and download/ upload system parameters and events through USB (optional) or Ethernet interface, all commands are compatible to LS-30.
- Report any activity through Internet in real time with fast response and saving user's communication expanses.
- Built-in detailed 512-event log.
- 4 LED display for Away/ Home/ Disarm and Data transmission indication.
- Can accommodate 288 sensors and control 15 programmable switches.
- RF signal quality monitoring and jamming detection.
- Robust multi-million RF coding and special transmission timing design to avoid interferences.
- Responds to panic, burglary, fire, medical alarm and environmental hazards.
- Burglar zones with supervised sensors, door and window open/ close detection.
- Special Monitoring mode to record all the activities in the protected area without triggering the alarm.
- Inactivity monitoring to take care of the elderly or physically challenged at home.
- 9 independent partial arm zones, one LS-10 can operate as 10 independent burglar alarm systems.
- Scheduled switch operation for a whole week automatically.
- 8 switch and operation scenes controlled by Keypad.
- External wire sensor input and alarm siren control output.

1. BASE UNIT

1.1 Display

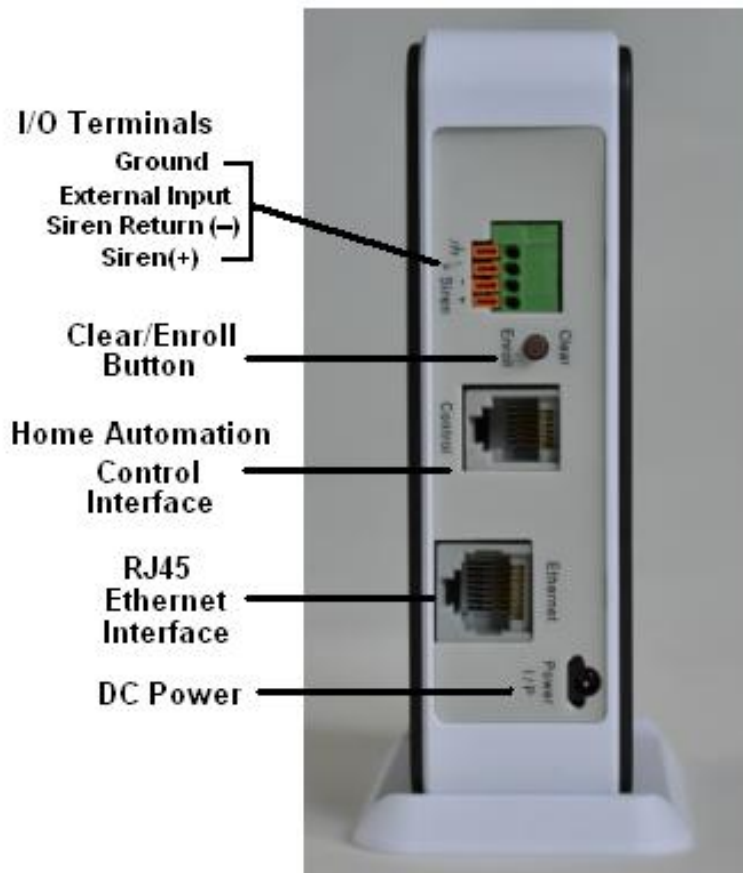


The Blue LED flashes when there is data sending out from the LS-10.

Three LEDs in green, yellow and red colors represent the system operation mode and alarm/ warning status as listed in the following table.

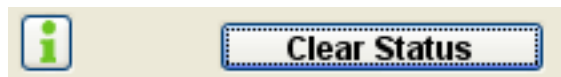
State LED	Red	Yellow	Green
DISARM	OFF	OFF	Flash
HOME	OFF	Flash	OFF
AWAY	Flash	OFF	OFF
DISARM with Warning Message	OFF	ON	Flash
DISARM with Alarm Message	ON	OFF	Flash
DISARM with Warning & Alarm Message	ON	ON	Flash
HOME with Warning Message	OFF	ON	OFF
HOME with Alarm Message	ON	Flash	OFF
HOME or AWAY with Warning & Alarm Message	ON	ON	OFF
AWAY with Warning Message	Flash	ON	OFF
AWAY with Alarm Message	ON	OFF	OFF

1.2 Rear Panel:



Clear/Enroll Button:

Clear LED Status: Press the button for about 0.2 sec. to clear the alarm and warning LED status (with a long beep).



The LED status also can be cleared from HyperSecureLink command.

Device Enroll: Press the button for about 3 sec. the LS-10 enters into Enroll Device State for 30 seconds. (Buzzer beeps and Green, Yellow, Red LEDs blink)
Please refer to Section 4.1.

1.3 Mounting Bracket:

LS-10 Base Unit can sit on a stand vertically or put in a wall mounting bracket as below.



Base Unit Stand



Wall Mounting Bracket (option)

1.4 Beeps & LED indication

Status	Beep	LED			Remark
		G	Y	R	
PWR On (OK)	Beeps on operation mode	B			
Disarm	1L	B			
Monitor	1L	B			
Home	2S		B		
Away	4S			B	
Clear (OK)	1L				
Entry Delay	M-M-M--(>10sec.) S-S-S---(<10sec.)				
Exit Delay	M-M-M--(>10sec.) S-S-S---(<10sec.)				
Open Detect	5sec. continuous		O		
Alarm delay	M-M-M--- (30sec.)			O	
Panic alarm (Siren On)	L-L-L--- (as Alarm Action Time)			O	
Burglar alarm (Siren On)	L-L-L--- (as Alarm Action Time)			O	
Fire alarm	L-L-L--- (as Alarm Action Time)			O	
Medical alarm	L-L-L--- (as Alarm Action Time)			O	
Environment sensor alarm	L-L-L--- (as Alarm Action Time)			O	
Device Enroll	M-M-M--- (30sec. or till success)	B	B	B	
Device Enroll succeed	3S				
Device Enroll failed	1L				
Siren test	1S				
Door Bell	1S+1M				

Beep

S (Short Beep): 0.25sec. On / 0.25sec. Off

M (Medium Beep): 1~ 0.75sec. On / 1~ 0.75sec. Off

L (Long Beep): 2sec. On / 2sec. Off

LED

O: On

B: Blink

1.5 Device Numbering Plan

All the sensors of LS-10 are divided into five main categories.

- 1, **Controller /Panic Devices (C) x 32:** Remote Controller, Keypad.
- 2, **Burglary Sensors/Sirens (B) x128:** Door Magnet, PIR, Glass Break Detector, Vibration Sensor, Pressure Change Detector, Wireless Siren.
- 3, **Fire Sensors (F) x64:** Smoke/Heat Detector, CO Detector, Gas Detector, Fire Call Point.
- 4, **Medical Help Transmitters (M) x32:** Medical Button, Inactivity Detector.
- 5, **Environment Sensors (S) x32:** Temperature/Humidity/CO2 Sensor, Flood/Light Detector, Analog/AC Meter.

All the sensors are numbered with two double-digit device numbers from (01-01) to (99-99), the first two-digit is the **Group number** and the second two-digit is the **Unit number**. These numbers will be given by the Base Unit automatically in the device enroll process and can be modified by HyperSecureLink software, some cloud server also allows user to assign a name to the device.

Ex.1, C 01-02: Controller number 01-02 (Group number 01, Unit number 02).

Ex.2, B 02-04: Burglar Sensor number 02-04 (Group number 02, Unit number 04).

Group number: The user can group several sensors by using the same **Group Number**. For example, the sensors in the first floor can be assigned as group number “01” and the sensors in the second floor can be assigned as group number “02”.

Note: Special group numbers

”00” for Base Unit (Z), “80” to “89” for Xkeypad (C).

“90” for status indicator (only for Special Environmental Sensor).

“91” to “99” for the Partial Arm Zones (Z) (please refer to APPENDIX B.1).

All the events generated by the Base Unit itself are marked with Zgg-uu.

gg = 00 (Event of Base Unit itself), gg = 91-99 (Event of partial zones.)

uu = 0x (Event of Base Unit itself),

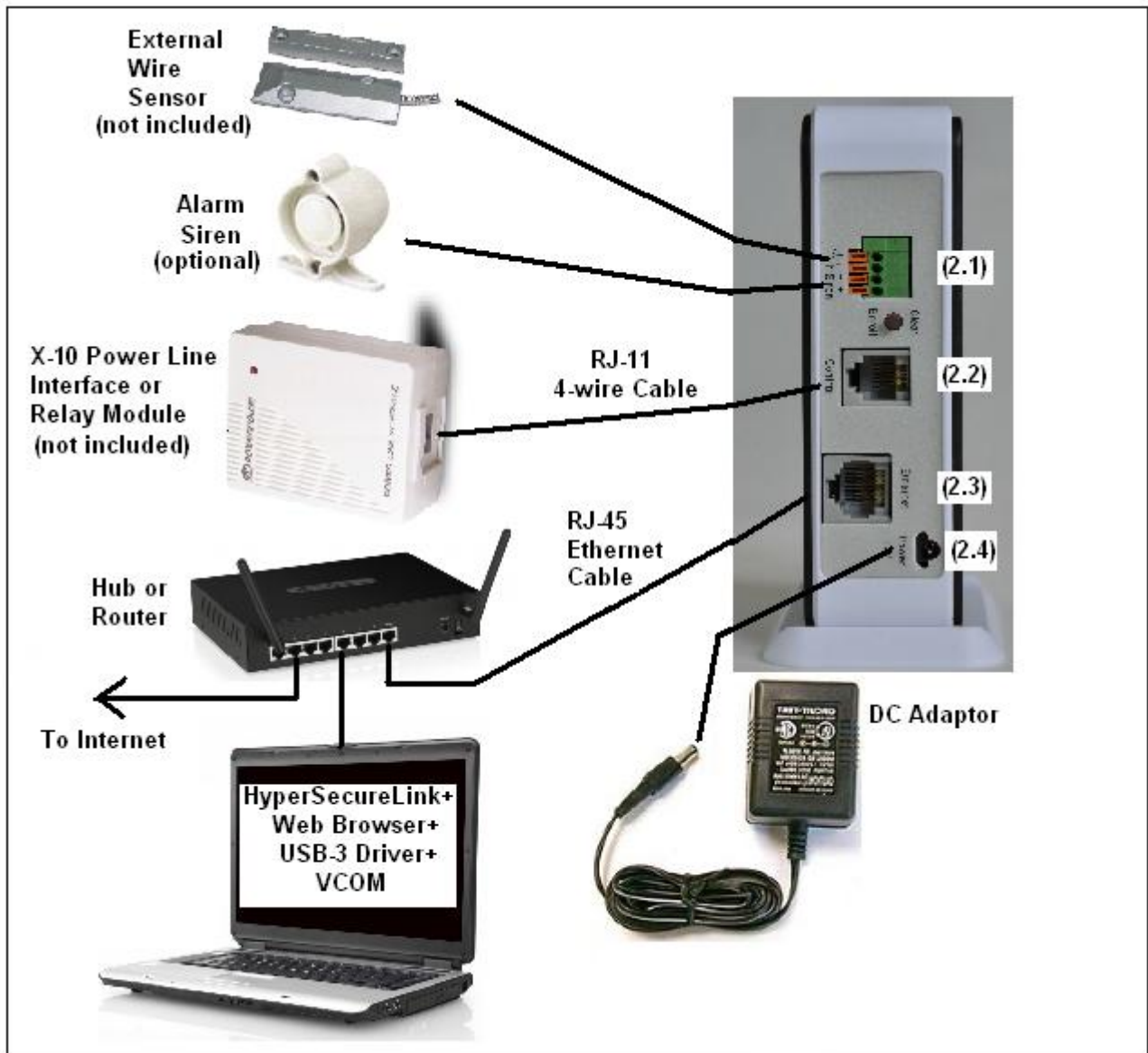
x=0 (Base Unit), x=3 (External Sensor In), x=6 (Inactivity)

uu = 2f (Command from USB or Internet.)

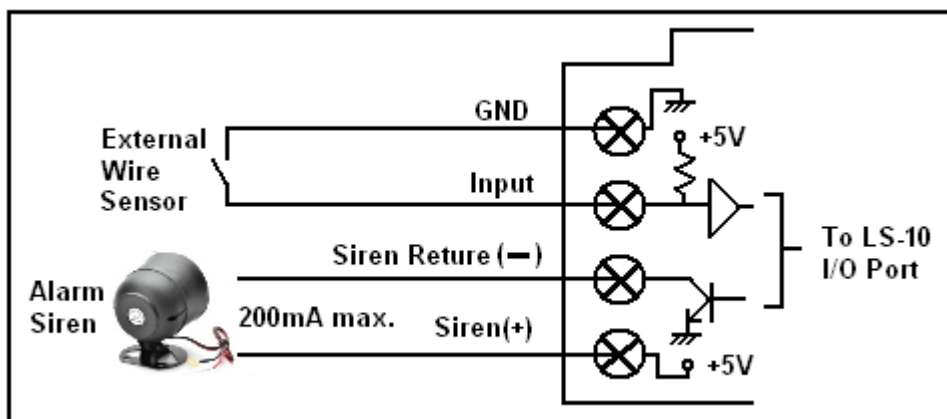
uu = 34 (CMS communication failed)

2, System Connection

Complete Connection Diagram of LS-10 System



2.1 I/O Terminals:



For the settings of the I/O Terminals, please refer to Appendix A.

2.2 Home Automation Control Interface

This port is for the user to interface the Home Automation Control System. (X-10 protocol in default).

2.3 RJ-45 Ethernet Interface

This port connects to the user's Ethernet Hub or Router for remote control through cloud web server, mobile App. or HyperSecureLink software.

2.4 Power Input

7V DC adaptor socket of the LS-10 Base Unit.



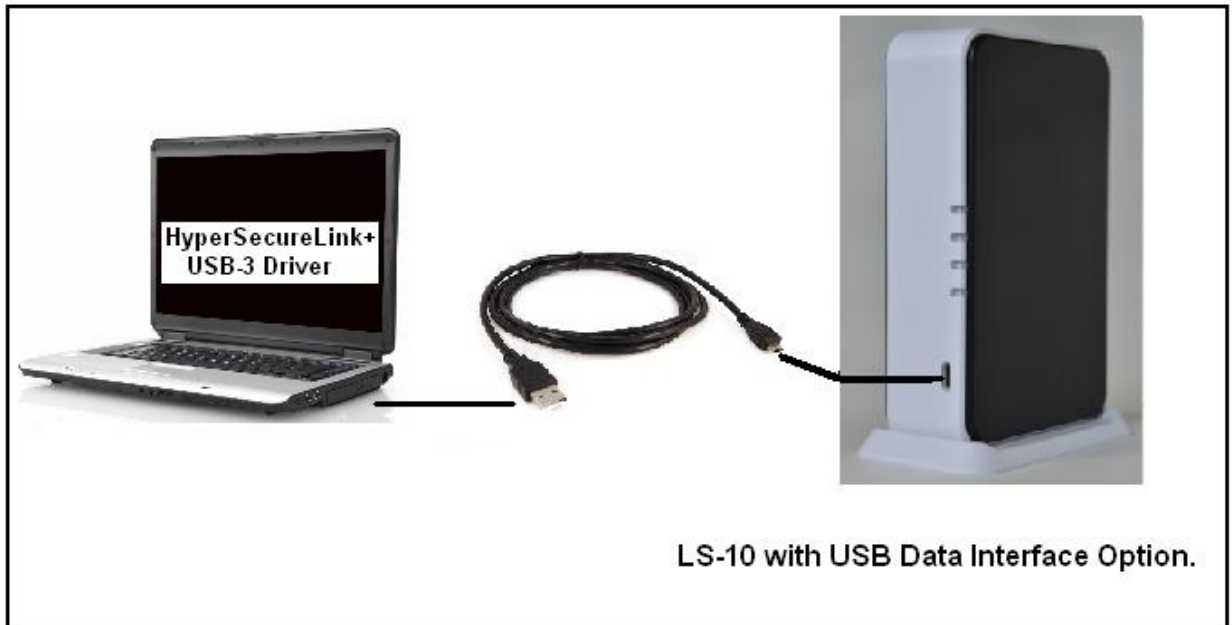
2.5 Micro USB Interface

USB connector to PC for local control from HyperSecureLink software or external power backup. (For LS-10N, the USB connector only can be as a backup power input.)

3, Working Scenario:

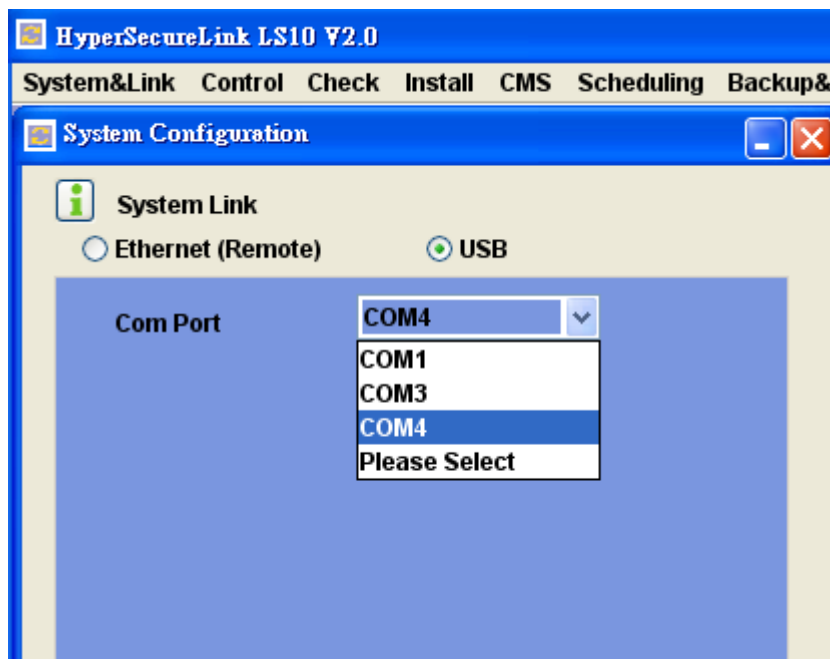
LS-10 can work standalone with Free HyperSecureLink software, third party's Mobile App or connect to a cloud server to enjoy much more service from the provider.

3.1 Works with HyperSecureLink software through USB port for local access.
(Only for the LS-10 with USB Data Interface option)



Connecting the LS-10 with PC by USB cable for both power and data interface.

Note: When the USB interface is connected to PC, the Base Unit can't be controlled through Ethernet but data out from Ethernet interface is still available.



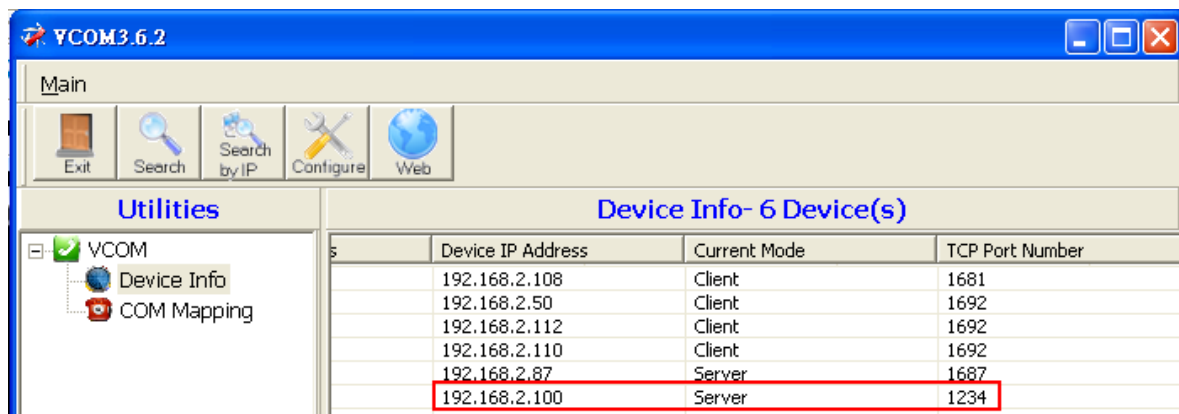
- * Install the USB driver on PC.
- * Connect the USB port to PC.
- * A new COM port (Ex. COM4) shows on the HperSecureLink software.
- * Select the new COM port then work with HyperSecureLink software.

3.2 Access the LS-10 by HyperSecureLink software or Mobile App. from local Intranet.

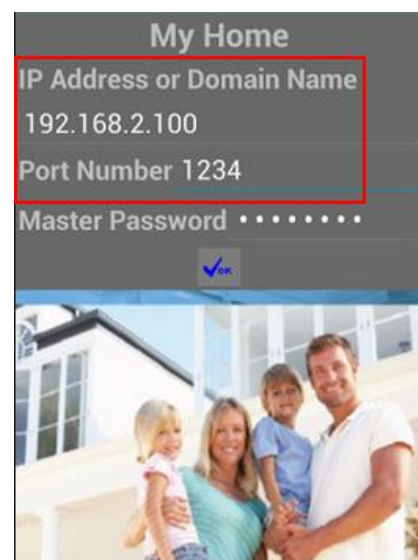
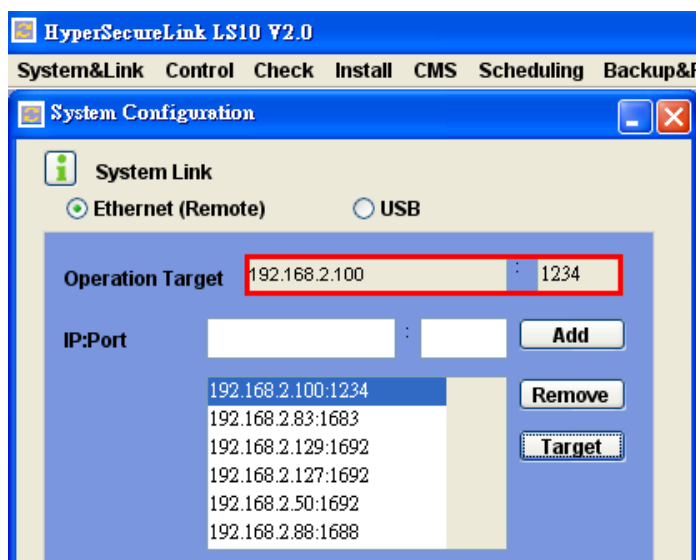
Note: LS-10 must be set as a Server.



Connecting the LS-10 to a router as a server to be accessed by Mobile App. or HyperSecureLink software locally.



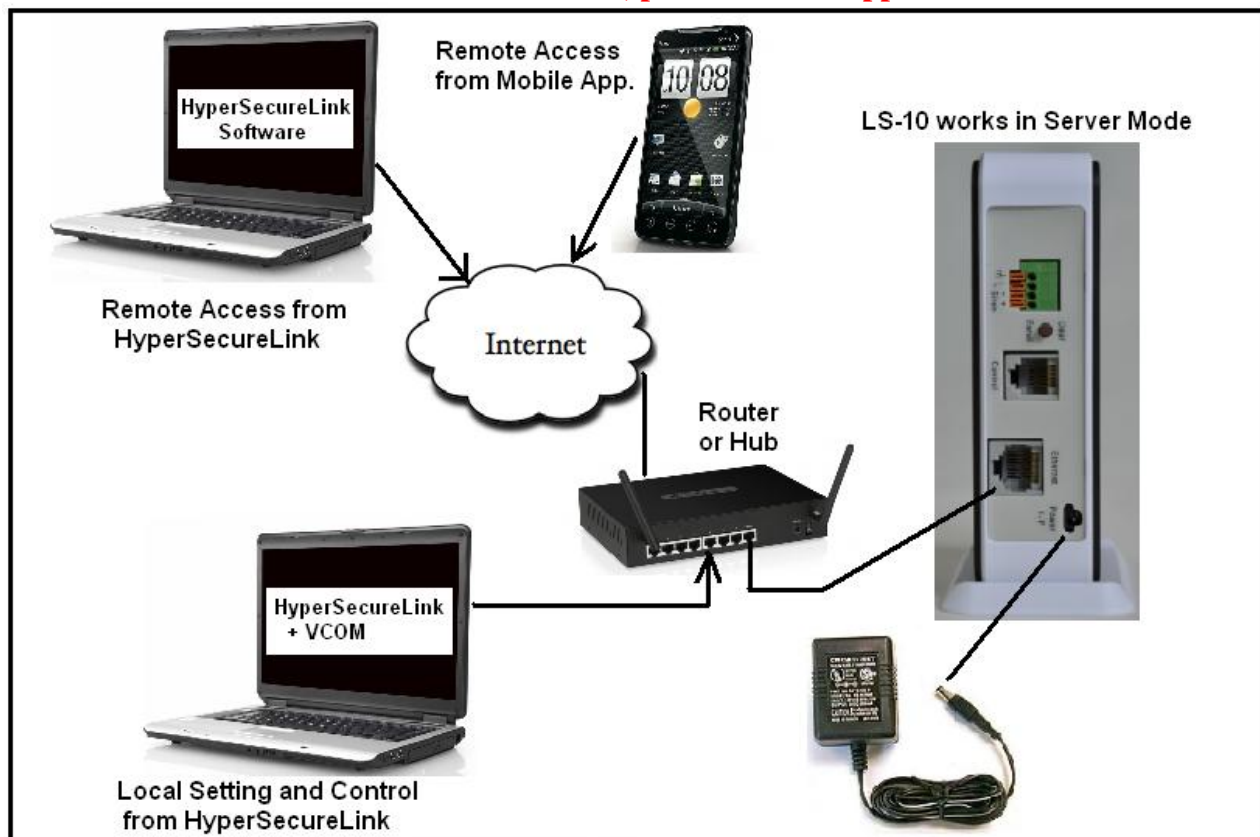
Setting the LS-10 as a server by VCOM and web browser.



Access the LS-10 by HyperSecureLink software or Mobile App. from local.

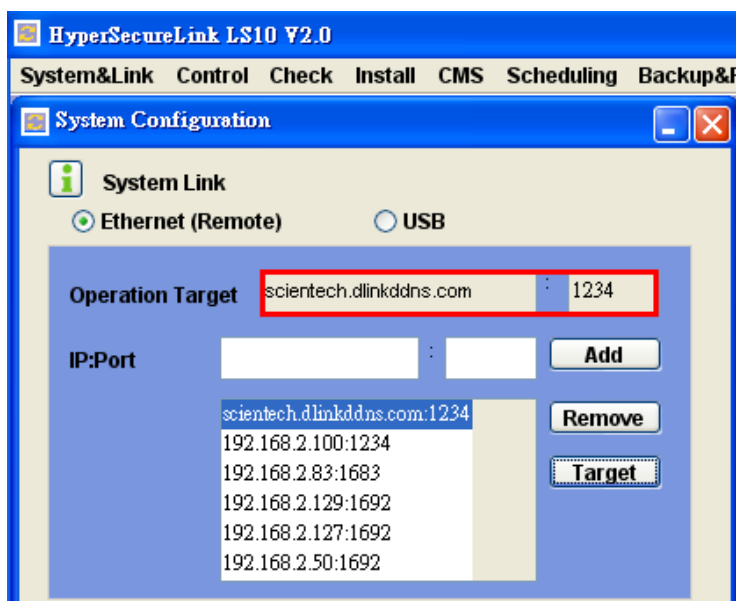
3.3 Works with HyperSecureLink software or Mobile App. from Internet.

Note: LS-10 must be set as a Server, please refer to Appendix C.1.



Note: 1, To be accessed from the Internet, the Router needs a fixed IP address or a domain name. A dynamic domain name can be got from www.dyndns.org, www.no-ip.com (free) or other dynamic domain name service provider, some router manufacturers provide free domain name service if you use their router such as DLINK. Please refer to the web site: http://support.dlink.com/Emulators/dcs3415/setup_dns.html for more information.

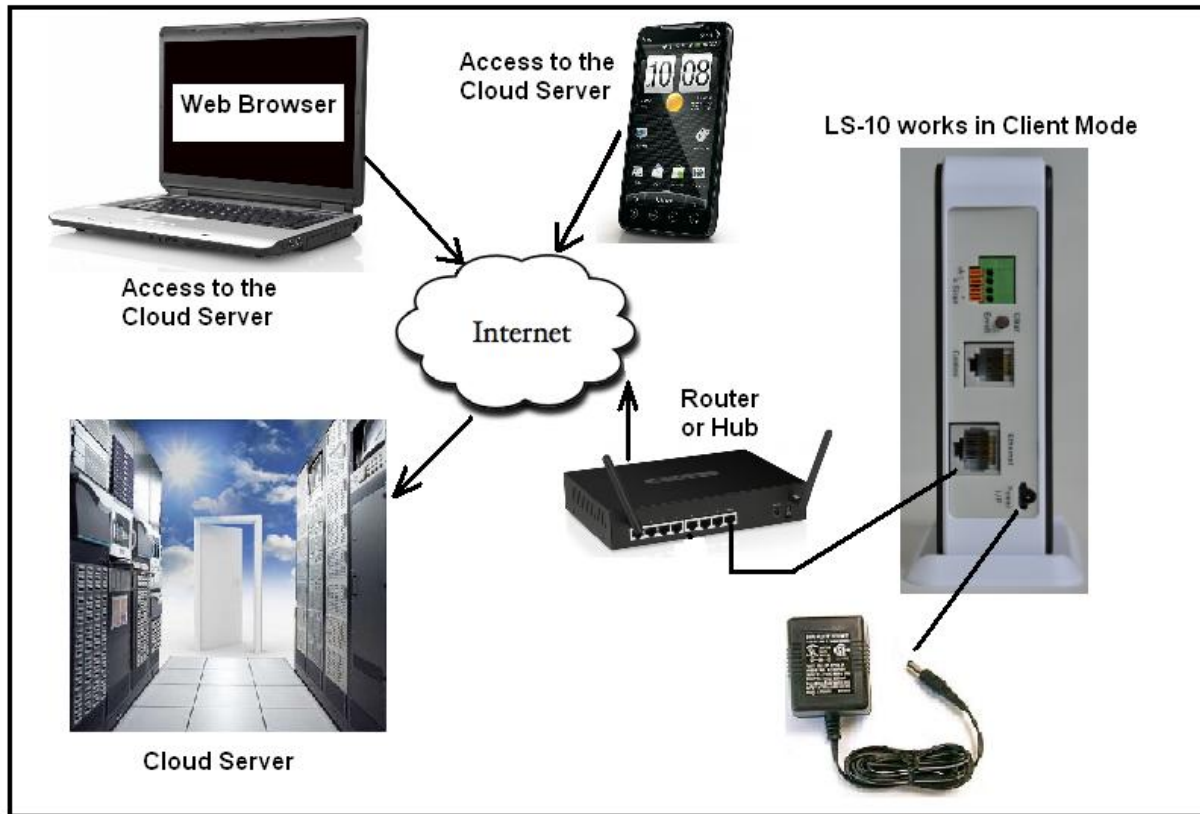
2, The LS-10 has to be mapped to a TCP port that can be accessed from Internet by virtual server or port forwarding function in the router.



(Ex: Using the free Domain Name Service from the router manufacturer DLINK and 192.168.2.100 is mapped as Virtual Server Port 1234 in the router.)

3.4 Connects to a Cloud Server to Get Full Home Management Service from the Provider.

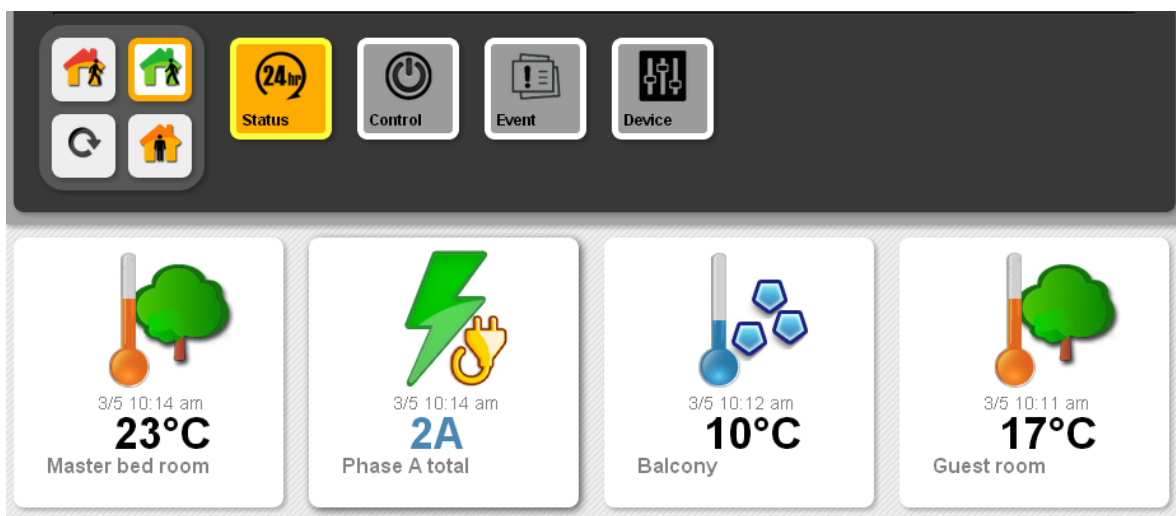
Note: LS-10 must be set as a Client, please refer to the Appendix C.2..



TCP Control

Item	Value
Telnet Server/Client	<input type="radio"/> Server <input checked="" type="radio"/> Client <input type="radio"/> Disable
Port Number	<input type="text" value="1692"/>
Remote Server IP Address	<input type="text" value="www.livingpattern.co"/>

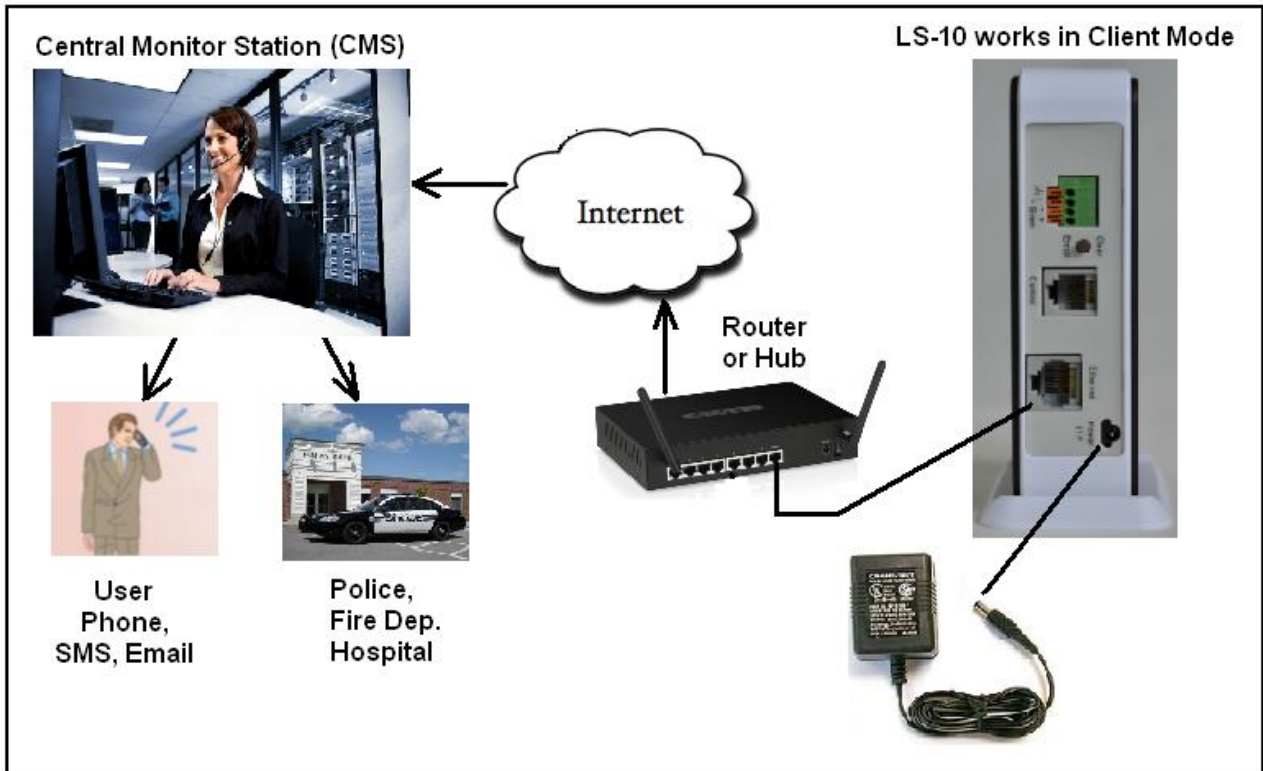
Cloud Server IP address and port setting.



Service example from a cloud server..

3.5 Connects to a Central Monitor Station to Get Alarm Service from the Service Provider.

Note: LS-10 must be set as a Client.



Central Monitoring System

Monitor Alarm Search User Event Configure Help About
Selected: Alarm

#	Time	Account	User	Type	Zone	Code	Address
1	2013/3/5 上午 11:52:09	2566	Mr. Elton Cartney	Special	0103	(1169) Low Limit Alarm	100 56th Ave NE Seattle Washington USA
2	2013/3/5 上午 11:52:09	2566	Mr. Elton Cartney	Special	0103	(1169) Low Limit Alarm	100 56th Ave NE Seattle Washington USA
3	2013/3/5 上午 11:52:09	2566	Mr. Elton Cartney	Special	0103	(1169) Low Limit Alarm	100 56th Ave NE Seattle Washington USA
4	2013/3/5 上午 11:52:09	2566	Mr. Elton Cartney	Base unit	0000	(1344) RF Receiver Jam D...	100 56th Ave NE Seattle Washington USA
5	2013/3/5 上午 11:52:09	2566	Mr. Elton Cartney	Special	0103	(1169) Low Limit Alarm	100 56th Ave NE Seattle Washington USA
6	2013/3/5 上午 11:52:09	2566	Mr. Elton Cartney	Special	0103	(1169) Low Limit Alarm	100 56th Ave NE Seattle Washington USA
7	2013/3/5 上午 11:52:09	2566	Mr. Elton Cartney	Special	0103	(1169) Low Limit Alarm	100 56th Ave NE Seattle Washington USA
8	2013/3/5 上午 11:52:09	2566	Mr. Elton Cartney	Special	0601	(1168) High Limit Alarm	100 56th Ave NE Seattle Washington USA
9	2013/3/5 上午 11:52:09	2566	Mr. Elton Cartney	Special	0103	(1169) Low Limit Alarm	100 56th Ave NE Seattle Washington USA

Account: 2566 User: Mr. Elton Cartney Time: 2013/3/5 上午 11:52:09

Device: 0000 Type: Base unit Zone: 0000

Address: 100 56th Ave NE Seattle Washington USA

Password: Apple pie

Panic Password: Bravo

Phone: 12345678 (C) SMS: 092345678 (C)

Email: abc@emaildomain1.com (C)

28811066

Call Phone

Send SMS Send Email

SMS/Email Message

Base unit Alarm : (1344) RF Receiver Jam Detect! 2013/3/5 上午 11:52:09 Mr. Elton Cartney 100 56th Ave NE Seattle Washington USA (Zone: 0000) 0000 From scientech

Resolve False Alarm

Microsoft Sans Serif 9 A B /

2013/3/5 上午 11:52:44 - Sent Email Failure: [abc@emaildoma

CMS monitoring software example from a service provider.

4, Installation

4.1 Device Enroll

The first step to start the operation of LS-10 is to enroll all the sensor/controller devices into the Base Unit one by one.

(Please refer to the User Guide of the devices to be enrolled as well.)

*Press the Clear/Enroll button for 3 seconds, the LS-10 enters into Enroll Device State for 30 seconds. (Buzzer beeps and Green, Yellow, Red LEDs blink simultaneously)

* Trigger the target device to send RF signal in 30 seconds.

(Three short beeps represent success and one long beep after 30 seconds means failure.)

Note: Beware of not to activate any other sensors during the 30 seconds Device Enroll time.

*Activate the target device again after a successful enrollment to confirm the device by checking the “Device Status” from HyperSecureLink software or web server.


Device Enroll


1

Press the Key for 3 sec.
(Green, Yellow, Red LED
blink + buzzer beeps.)
Device Enroll starts and
lasts for 30 sec.

3

Success: Three short beeps.
Failure: One Long beep
after 30 sec.





2 Trigger the Target Device to
send RF signal in 30 sec.

4 Activate the Target Device
again to confirm the enrollment
was successful.

4.2 Placement of the Base Unit and Sensors



It is important for the Base Unit to have a good reception quality for the RF signals transmitted from all the sensors and controllers.

- Place the Base Unit near the central of your home or business if possible.
- Keep the Base Unit away from large appliances and other metal objects.
- Locate the Base Unit near a power outlet and the router.

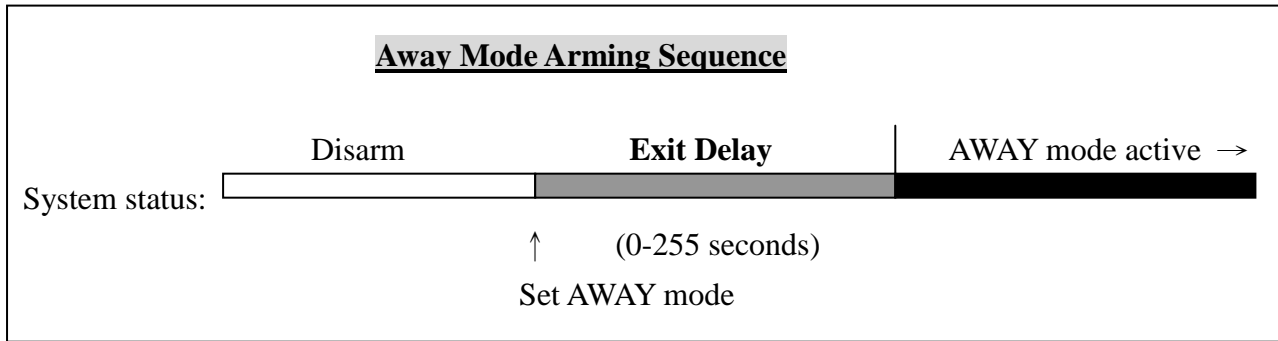
Install all the sensors according to your site planning.

Check the radio signal quality from the CS (“Current Status” in “Device Status”) reading from the HyperSecureLink software or signal bar from Cloud server or Mobile App. by pressing the test button on the sensors or trigger the sensor’s action. Relocate the sensors/Base Unit to get the best signal strength if necessary.

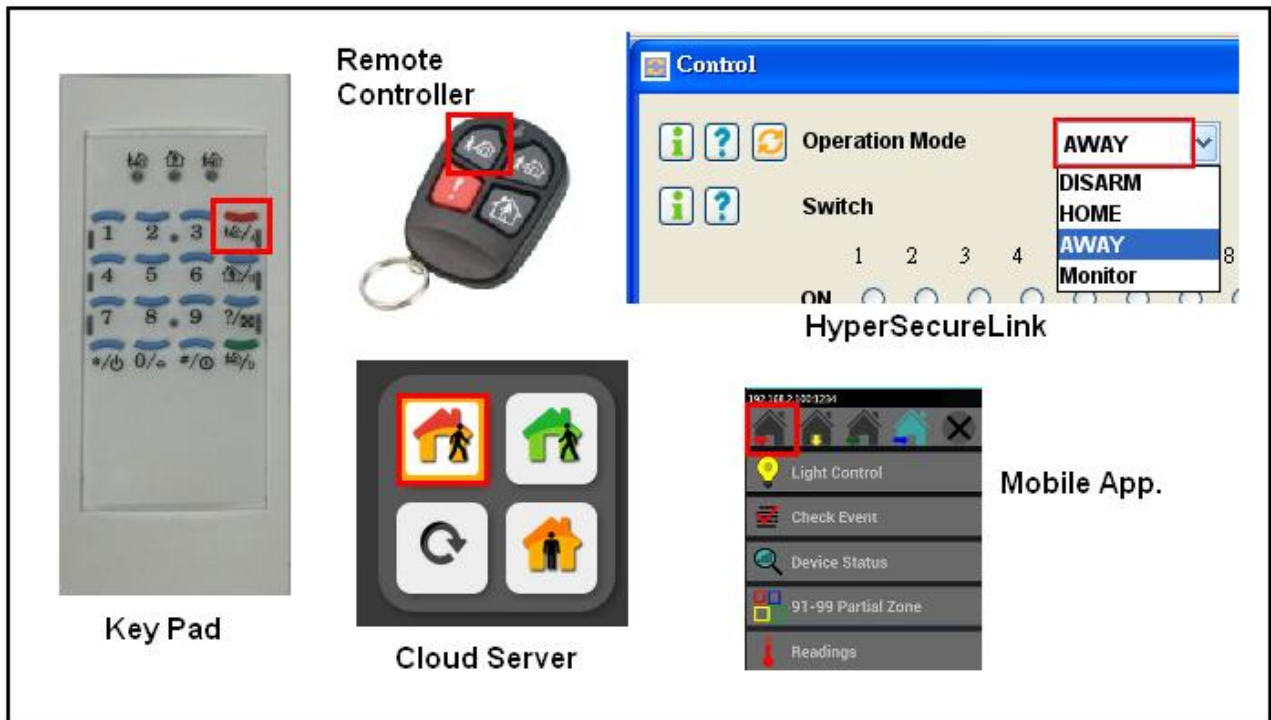
If the dB number is less than 40dB or without bar indication then you should consider to adjust the location of the sensors/Base Unit or add a RF Repeater to the system to extend the RF operation range. (Do not attach the transmitter on a metal surface, this will shrink the RF signal effective range seriously.)

5. OPERATION MODE

5.1 AWAY Mode: When you leave your home or business, set the system into Away Mode.



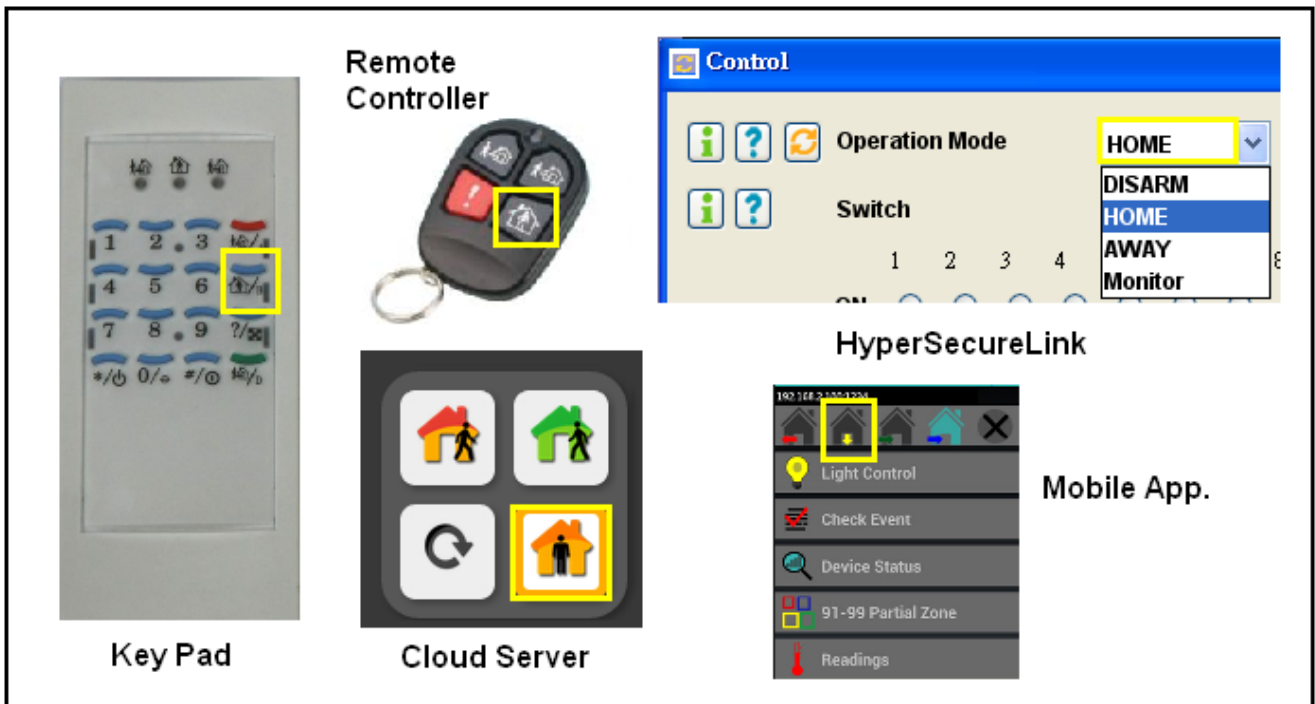
Note: When you set the LS-10 in AWAY Mode, the Base Unit clears any previous alarm and warning status on the LED and check the state of the Door Magnet sensors. If any of the sensors is still open (for example, you forgot to close the back door before you leave), the Base Unit will issue a 5 sec. long beep and insert 20 seconds Exit Delay automatically if no Exit Delay has been set to remind you to check the house again.



Enter into “AWAY” Mode from different devices or services.

5.2 HOME Mode: In this operation mode, those burglar sensors with their **Enable State – “24-Hour Zone” or “Guard in Home Mode” = Yes**, will still be on alert and offer the protection you need while at home.

Note: When you place the LS-10 in Home Mode, the Base Unit will check the status of the Door Magnet sensors. If any of the sensors is still open (for example, you forgot to close the back door), the Base Unit will keep a “Protection Loop Open” in the Event Log. The Base Unit will clear any previous alarm and warning status on the LED when the Home Mode is entered from the Disarm Mode.

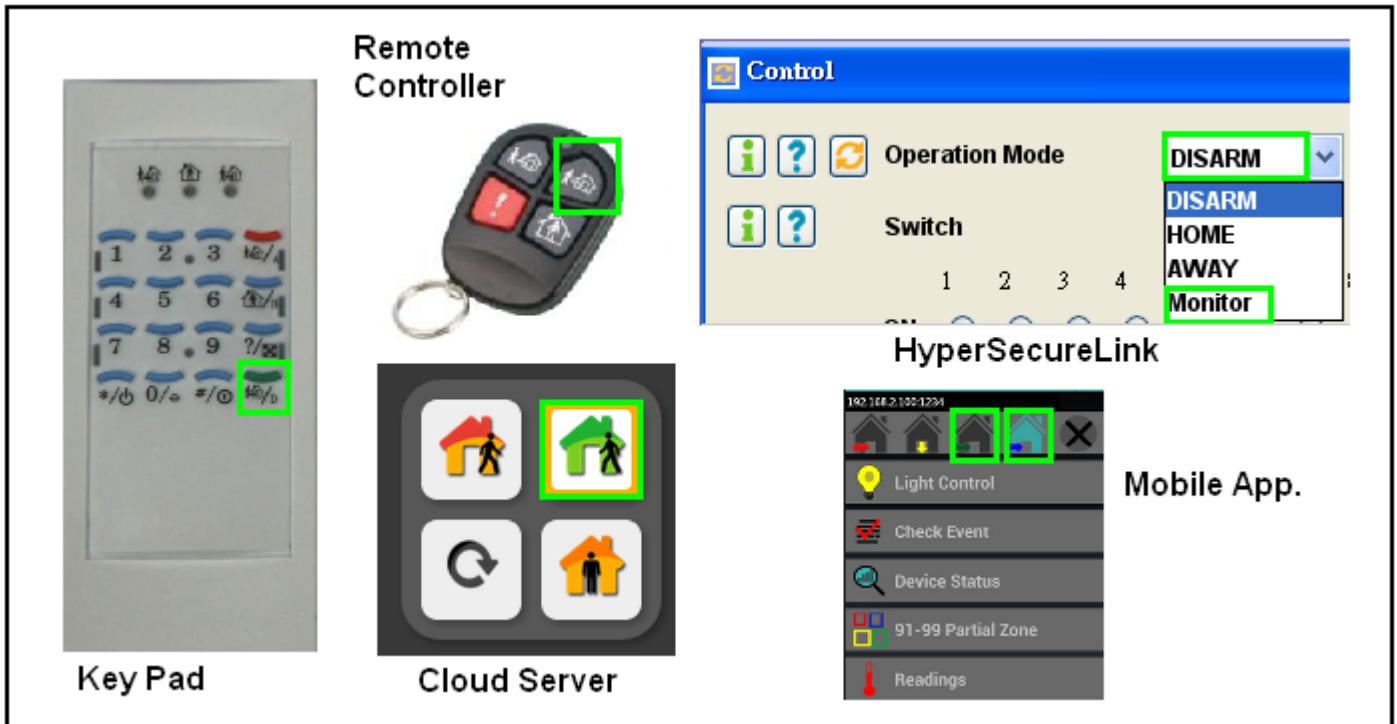


Enter into “HOME” Mode from different devices or services.

Change Device Settings			
Burglar Sensor			
Group No.	01	(2 digits)	<input type="button" value="Get settings"/>
Unit No.	01	(2 digits)	
		Yes	No
Bypass		<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation		<input checked="" type="radio"/>	<input type="radio"/>
24-Hour Zone		<input type="radio"/>	<input checked="" type="radio"/>
Guard In Home Mode		<input checked="" type="radio"/>	<input type="radio"/>
Pre-warning		<input type="radio"/>	<input checked="" type="radio"/>
Alarm With Siren		<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm		<input checked="" type="radio"/>	<input type="radio"/>
Inactivity		<input type="radio"/>	<input checked="" type="radio"/>
Home Automation		<input checked="" type="radio"/>	<input type="radio"/>

The Burglar sensor’s “Guard in Home Mode” is enabled.

5.3 DISARM/ MONITOR Mode: The LS-10 will not issue any alarm for Burglar sensors, but 24-Hour sensors, Fire sensors, Panic, Medical Buttons and Environment sensors still work all the time.



Enter into “DISARM” or “MONITOR” Mode from different devices or services.

Monitor Mode: In this mode all the trigger signals from the **Burglar Sensors** (not including the sensors assigned in Group number 91-99 Partial Arm Zones) will be recorded in the Event Log as trigger signals only; no alarm will be issued. The purpose of this mode is for the recording of all activities in the protected area while in Disarm Mode.

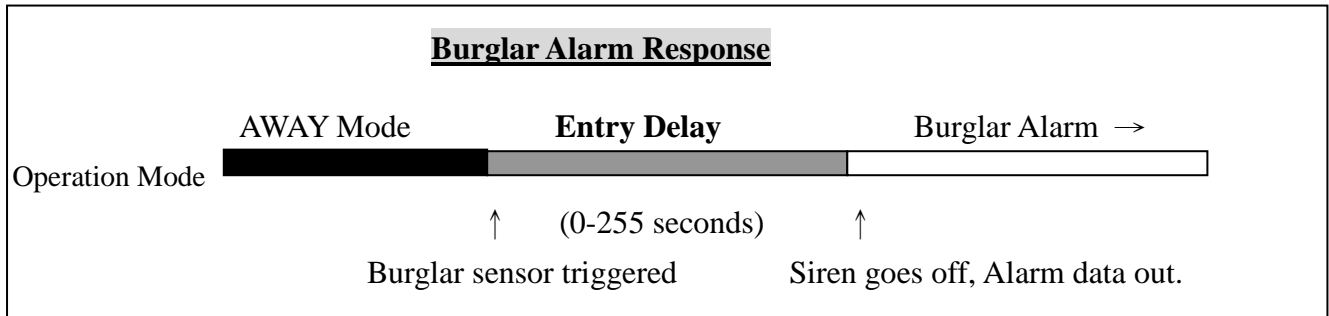
5.4 Automatically Operation scheduling set by HyperSecureLink software.

Note: This function is not available for LS-10N.

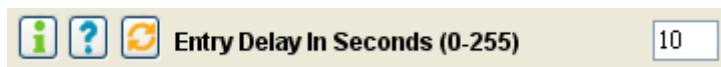
HyperSecureLink LS10 V2.0					
System&Link	Control	Check	Install	CMS	Scheduling
Auto Operation					
Daily					
Item	Zone No.	Operation	o'clock	minute	
1	Main	Disarm	07	30	
2	Main	Away	19	30	
3	91	Disarm	08	00	
4	91	Away	20	00	
5	Main	No Action	00	00	
6	Main	No Action	00	00	

Ex: Main Zone (Group Number 01~ 89) will be “Disarmed” at 07:30 and enter into “Away” mode at 19:30 everyday.

5.5 Reaction of LS-10 to Burglar Alarm

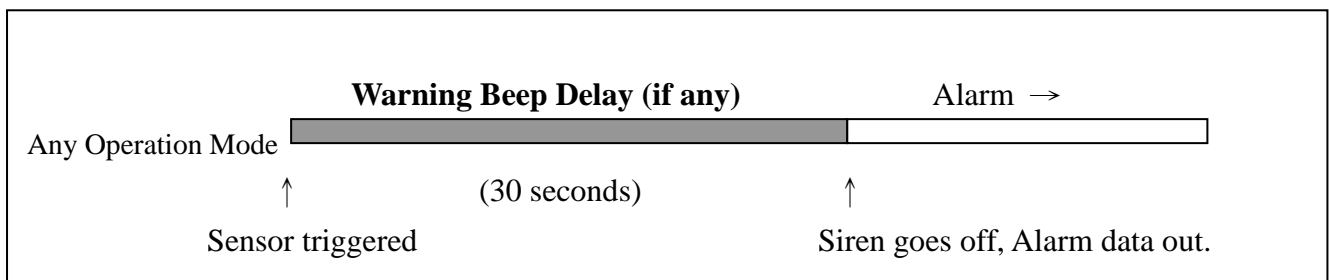


Burglar alarms can only be issued when the system is in AWAY or HOME mode or with the sensors assigned as a 24-Hour Zone device, while Fire, Panic, Medical and Environment alarms can be triggered anytime, regardless of the system operation mode.



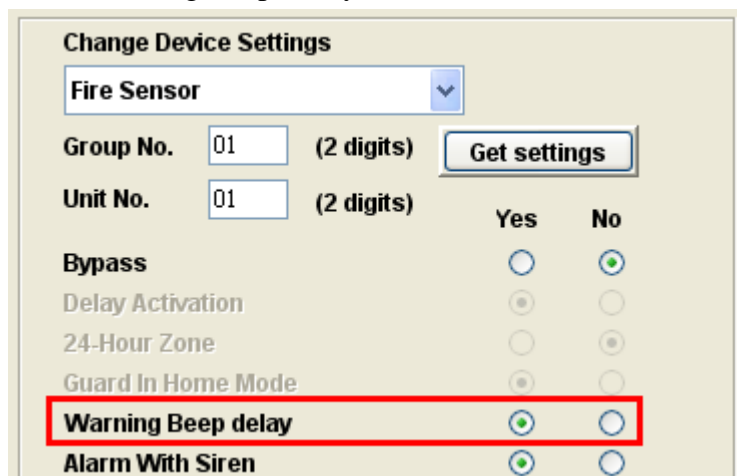
The siren can be stopped by disarming the system.

5.6 Reaction of LS-10 to Other Alarms except Burglar Alarm



Fire, Panic, Medical and Environment alarms can be triggered anytime, regardless of the system operation mode.

The “Warning Beep Delay” is fixed at 30 seconds.



The siren can be stopped by disarming the system.

6. SYSTEM CHECK

6.1 Event Log: The Base Unit can store 512 event records in its memory. These events can be checked from HyperSecureLink Software or Mobile App.

If user applies a Cloud Service then much deeper Event Log can be recorded.

No.	Co...	Event	Zone	Type	Act...	Date	Time	Device Name
1	1371	Protection Loop Open	01-03	Burg...	01	09/24	15:11	
2	3441	(Home) Armed Stay	01-01	Cont...	00	09/24	15:11	
3	1400	(Disarm)	01-01	Cont...	00	09/24	15:09	
4	1130	Burglary	01-03	Burg...	01	09/24	15:09	
5	1371	Protection Loop Open	01-03	Burg...	01	09/24	15:08	
6	3441	(Home) Armed Stay	01-01	Cont...	00	09/24	15:08	
7	1400	(Disarm)	01-01	Cont...	00	09/24	15:07	
8	1371	Protection Loop Open	01-03	Burg...	01	09/24	15:07	
9	3441	(Home) Armed Stay	01-01	Cont...	00	09/24	15:07	
10	1400	(Disarm)	01-01	Cont...	00	09/24	15:06	

Event Log read from HyperSecureLink software

No.	Icon	Date	Time	Type	Zone
57	🔴	12/07	16:50	Controller Panic	82-00
58	↔️	12/07	16:49	Burglar Trigger	01-06
59	↔️	12/07	16:48	Burglar Trigger	11-13
60	↔️	12/07	16:48	Burglar Trigger	11-13
61	↔️	12/07	16:48	Burglar Trigger	11-13
62	↔️	12/07	16:46	Burglar Trigger	01-06
63	🔵	12/07	16:42	Burglar Door Close	01-04
64	🔵	12/07	16:42	Burglar Door Close	01-04

Event Log read from a mobile App.

Last 24hr Events	
<input checked="" type="checkbox"/> 36 alarms	<input checked="" type="checkbox"/> 40 warnings
<input checked="" type="checkbox"/> 0 status	<input checked="" type="checkbox"/> 0 others
Alarm Low Limit Alarm 0602 2/26 04:46 pm	Alarm Low Temp Alarm Outside Temp. 2/26 04:46 pm
Warning Restore Low Limit Alarm 0602 2/26 04:45 pm	Alarm RF Receiver Jam Detect 0000 2/26 04:28 pm

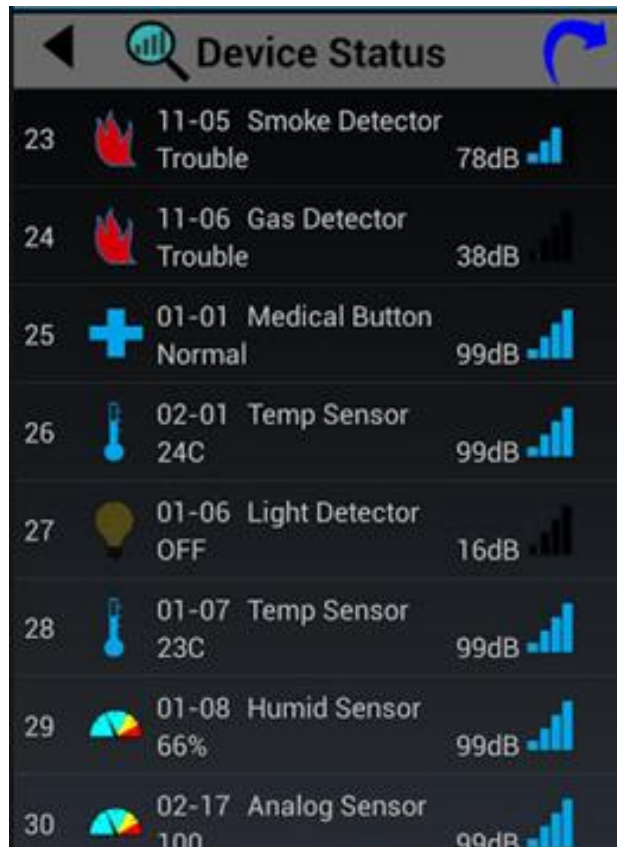
Event Log read from a cloud server.

6.2 Device Status: The latest state of the sensors including, signal strength and readings can be checked by device status from the HyperSecureLink Software or Mobile App.

If user applies a Cloud Service then each device can be named for easy identification and Environment readings or activities can be show in graphics.

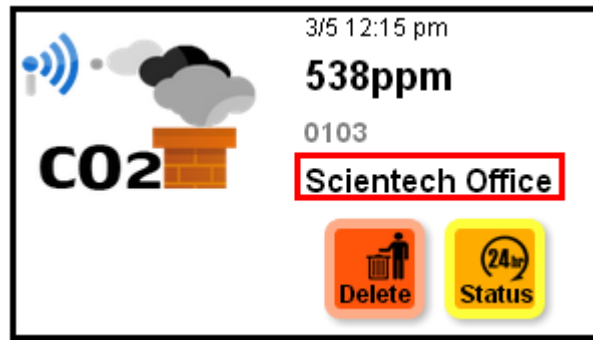
No.	Zone	Sensor Type	ID	MA	DC	ES	SW	CS	DT	CD	AH	AL	SS	CH	CL	Device Name
1	01-01	Remote Controller	732407	00	00	4000	0000	c2	0f							
2	01-01	Door Magnet	500000	00	10	5614	c000	c2	2b							
3	01-02	PIR Sensor	200005	02	10	4514	3000	c3	2f							
4	01-01	Temp Sensor	707177	00	10	2c10	0000	a0	2f	+21			00			
5	01-02	Analog Sensor	707177	02	10	2c10	0c00	ae	2d	+82	+120	+10	68	+80	+40	

Device Status read from HyperSecureLink software

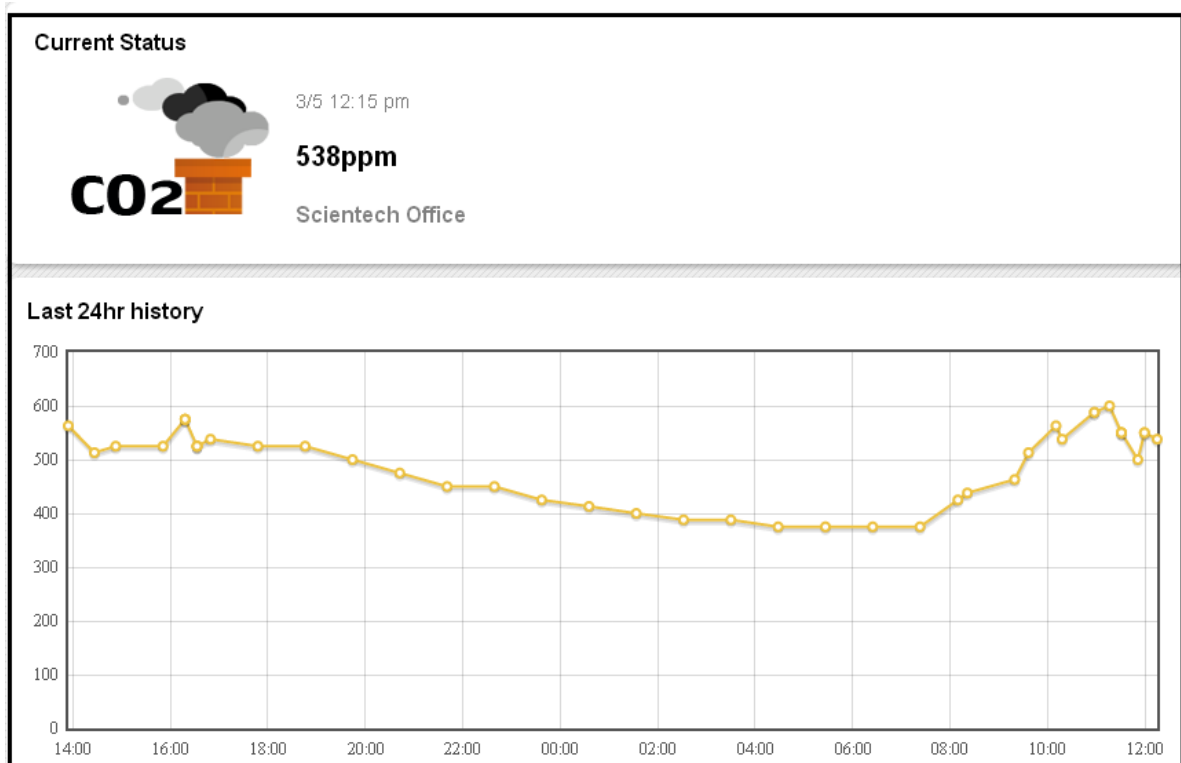


Device Status read from a Mobile App.

Cloud server allows user to assign a name to each device for user to identify the sensor much easier.



Device Status read from a Cloud Server.

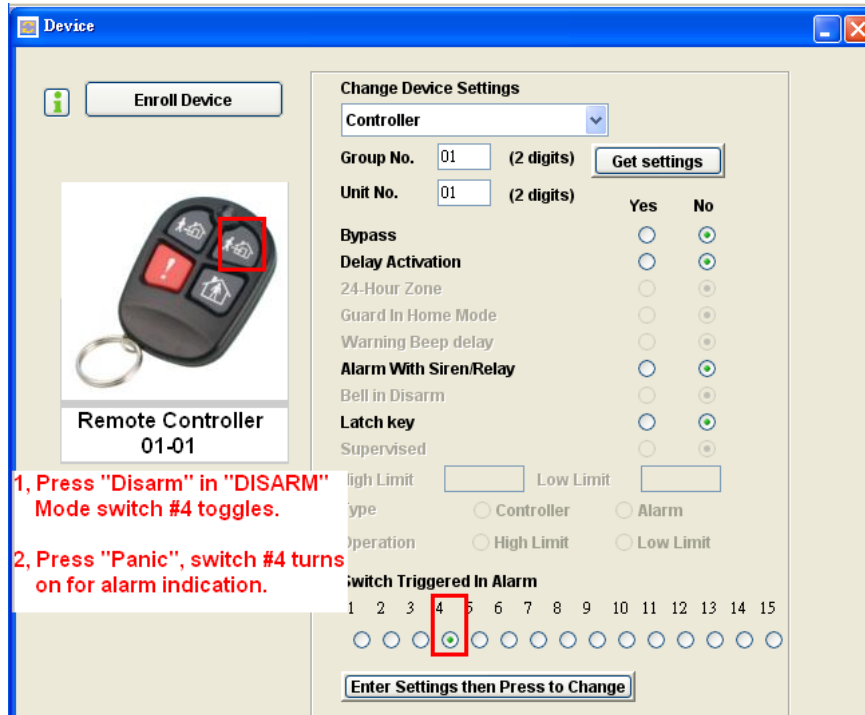


24 Hours history of a CO2 sensor shown from a Cloud Server.

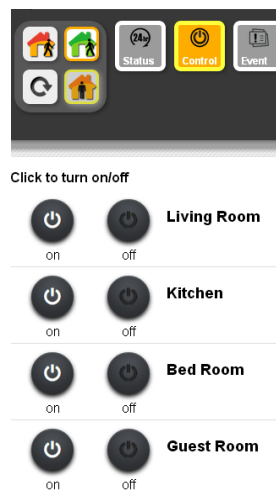
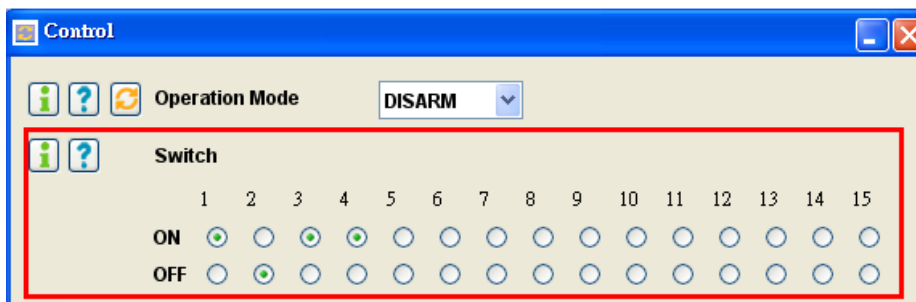
7. HOME AUTOMATION CONTROL

There are 15 switches can serve as alarm indications or home appliances control purpose. These switches can be controlled by Remote Controller, Keypad locally or by HyperSecurelink software, mobile App or Cloud Server remotely.

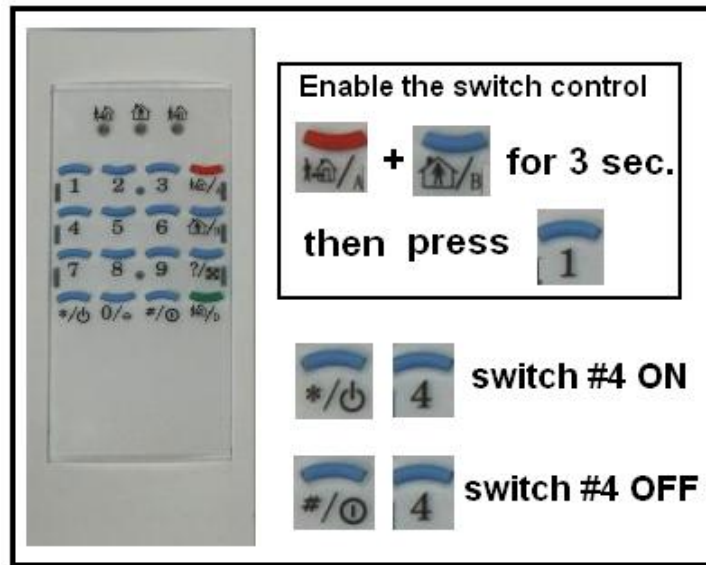
7.1 Switch setting by HyperSecureLink software to be controlled by Remote Controller.



7.2 Directly control from HyperSecureLink software, Mobile App or cloud service.



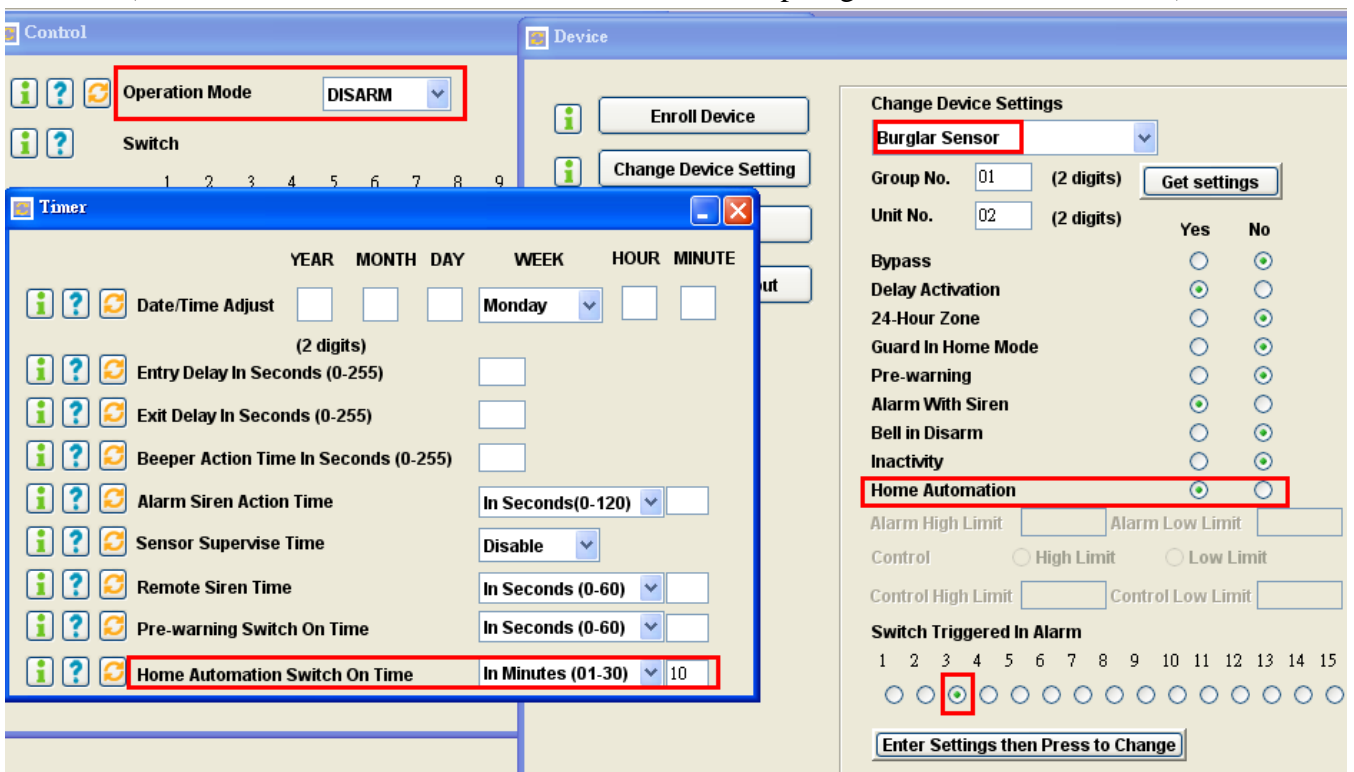
7.3 Switch control from Keypad. (Please refer to the KP-3S User Guide for more information.)



7.4, Automatic controlled by Burglar Sensors with “Home Automation=Yes” in Disarm Mode.

Ex. Below settings will turn the switch #3 on for 10 minutes when the Burglar Sensor 01-02 was triggered in Disarm Mode.

(For PIR sensor, it will turn off till the “Motion Stop” signal was received as well.)



7.5 Automatic control by the Special Sensors with their “High/Low” limit settings.

Ex, Below settings will turn on switch #3 when reading is above “28” and turn off switch #3 when reading is below “26”.

(Note: “High Limit” Control is for cooler, and “Low Limit” Control is for Heater)

7.6 Automatically switch control scheduled by HyperSecureLink software.

Note: This function is not available for LS-10N.

Item	Switch No	Action	o'clock	minute
1	1	On	19	00
2	1	Off	07	05
3	2	On	07	15
4	2	Off	09	00
5	1	No Action	00	00
6	1	No Action	00	00
7	1	No Action	00	00
8	1	No Action	00	00

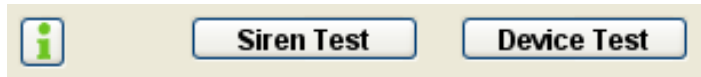
Ex: The switch #1 will turn on at 19:00 and turn off at 07:05 everyday.

The switch #2 will turn on at 07:15 and turn off at 09:00 everyday.

8. CONTROL AND PARAMETER SETTINGS

8.1 Control

***Siren Test:** This test will activate the beeper, external alarm siren and send an Activate signal to the Remote Siren (if a remote siren is installed) immediately.



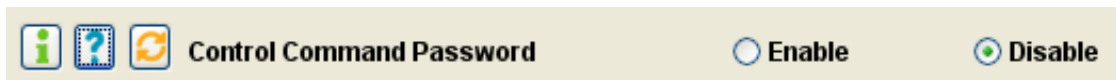
***Device Test:**

Enter into Device Test Mode for 5 minutes. Any trigger signal (not including the control signal from Remote Controller) in this time will be treated as a test signal. After 5 minutes, the system will exit from this mode automatically.

***External Alarm Siren Control:** Turn On or Off the Alarm Siren connected on rear panel.



*** Control Command Password: (default: Disable)**



Disable: No password needed for the control commands.

Enable: Password must be attached to the control commands.

(If "Enable" then the password must be set and submitted when running the HyperSecureLink software as below.)

A screenshot of a web form titled "System User". It has two tabs: "System Login" and "Password Update". The "Password Update" tab is active. The form contains a "System User Name" input field, a "Password" input field with a red border and the text "(8 digits max.)", and a "submit" button.A screenshot of a mobile application screen titled "My Home". It displays configuration details: "IP Address or Domain Name" (192.168.2.100) and "Port Number" (1234). The "Master Password" field is highlighted with a red box and contains eight dots. A "check" icon (✓) is visible below the password field. At the bottom, there is a photo of a family.

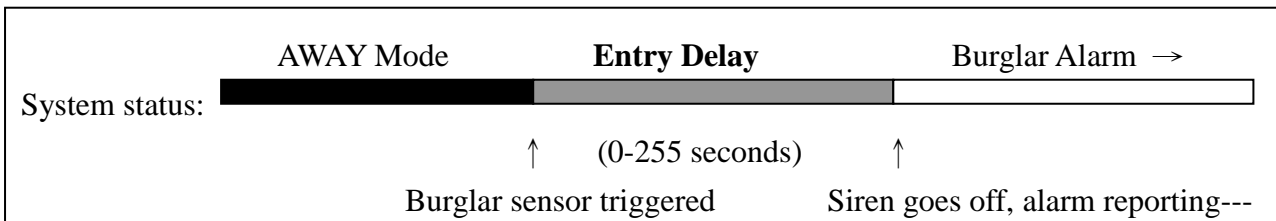
8.2 Settings for Timers

***Entry Delay (for Burglar Sensor only, 0-255 seconds, default=10 sec.)**

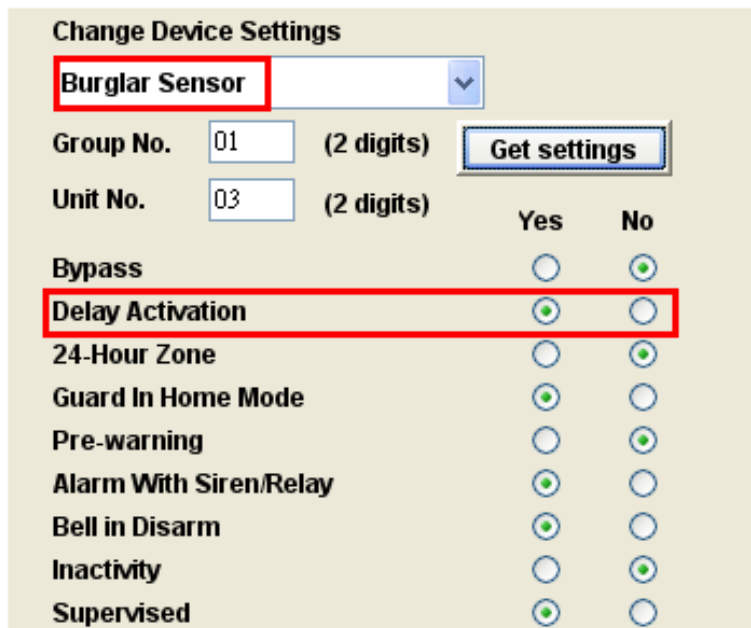


This setting is the time between any burglar sensor triggers and the alarm action procedure starts. When you return home and open the door, the Base Unit will issue warning beeps (if the **Delay Activation = On**) to remind you that the system is still in the Arm state and you should disarm the system within this time.

For the system controlled by Wireless Keypad, this timer should be set more than 20 seconds.



This Delay only works on the Burglar Sensor with its Delay Activation= Yes, see below.



	Yes	No
Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input checked="" type="radio"/>	<input type="radio"/>
24-Hour Zone	<input type="radio"/>	<input checked="" type="radio"/>
Guard In Home Mode	<input checked="" type="radio"/>	<input type="radio"/>
Pre-warning	<input type="radio"/>	<input checked="" type="radio"/>
Alarm With Siren/Relay	<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm	<input checked="" type="radio"/>	<input type="radio"/>
Inactivity	<input type="radio"/>	<input checked="" type="radio"/>
Supervised	<input checked="" type="radio"/>	<input type="radio"/>

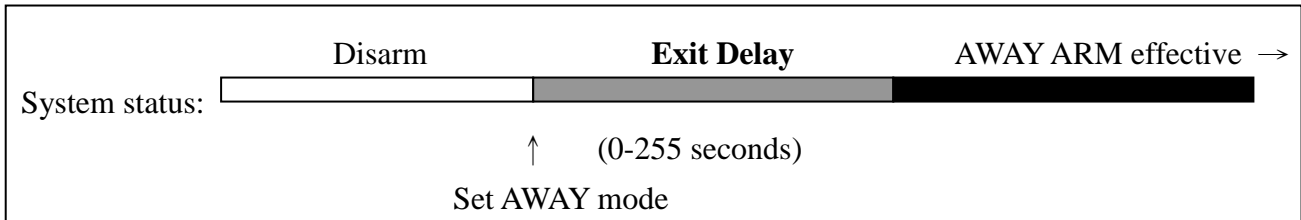
***Exit Delay (for Controller only, 0-255 seconds, default=10 sec.)**



This setting is the time between selecting the “AWAY” mode and when the “AWAY” arm becomes effective. During this time, the Base Unit will issue warning beeps to remind the people still in the house to leave as soon as possible.

Since the Door Open signal may last for 10 seconds, so add 10 seconds to the time you need to leave the house as the Exit Delay. (Ex. you need 20 seconds to leave the house, set Exit Delay=30s)

For the system controlled by Wireless Keypad, this timer should be set more than 20 seconds.



This Delay only works on the Controller with its Delay Activation=Yes, see below.

Change Device Settings

Controller [dropdown]

Group No. [01] (2 digits) [Get settings]

Unit No. [01] (2 digits)

	Yes	No
Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input checked="" type="radio"/>	<input type="radio"/>
24-Hour Zone	<input type="radio"/>	<input type="radio"/>
Guard In Home Mode	<input type="radio"/>	<input type="radio"/>
Warning Beep delay	<input type="radio"/>	<input type="radio"/>
Alarm With Siren/Relay	<input type="radio"/>	<input checked="" type="radio"/>
Bell in Disarm	<input type="radio"/>	<input type="radio"/>
Latch key	<input type="radio"/>	<input checked="" type="radio"/>
Supervised	<input type="radio"/>	<input type="radio"/>

*** Beeper Action Time: 0-255 seconds (default, 60 sec.)**

Beeper Action Time In Seconds (0-255) [60]

The time of the Inner Beeper sounds when the alarm trips.

***Alarm Siren Action Time: 0 second to 120 minutes (default, 60 sec.)**

Alarm Siren Action Time [In Seconds(0-120)] [60]

The activation time of the external Alarm Siren sounds (on the rear panel) when the alarm trips.

***Sensor Supervise Time: 0-24 Hours (default, 12 Hours)**

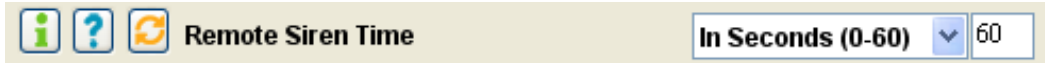
Sensor Supervise Time [12 Hours]

The LS-10 is a supervised RF wireless system, meaning supervised sensors send “heartbeat” RF signals to the Base Unit at a certain time interval. If the Base Unit does not receive the RF check signal from a supervised sensor within the **Sensor Supervise Time**, the LS-10 considers this sensor to be missing and issues a warning message.

This time can be set from 0 to 24 hours (0 hour means that the system will not check the “heartbeat” signal).

Please note, the time shorter than 4 hours would increase sensor “RF Loss” possibility.

***Remote Siren Time: 0 seconds to 30 minutes (default, 60 sec.)**



A control panel for 'Remote Siren Time'. It features an information icon, a help icon, and a refresh icon on the left. The text 'Remote Siren Time' is in the center. On the right, there is a dropdown menu set to 'In Seconds (0-60)' and a numeric input field containing '60'.

The time of the wireless Remote Siren sounds when the alarm trips. (Remote Siren is an Option.)

*** Pre-warning Time: 0-30min. (default, 2 min.)**



A control panel for 'Pre-warning Switch On Time'. It features an information icon, a help icon, and a refresh icon on the left. The text 'Pre-warning Switch On Time' is in the center. On the right, there is a dropdown menu set to 'In Minutes (01-30)' and a numeric input field containing '2'.

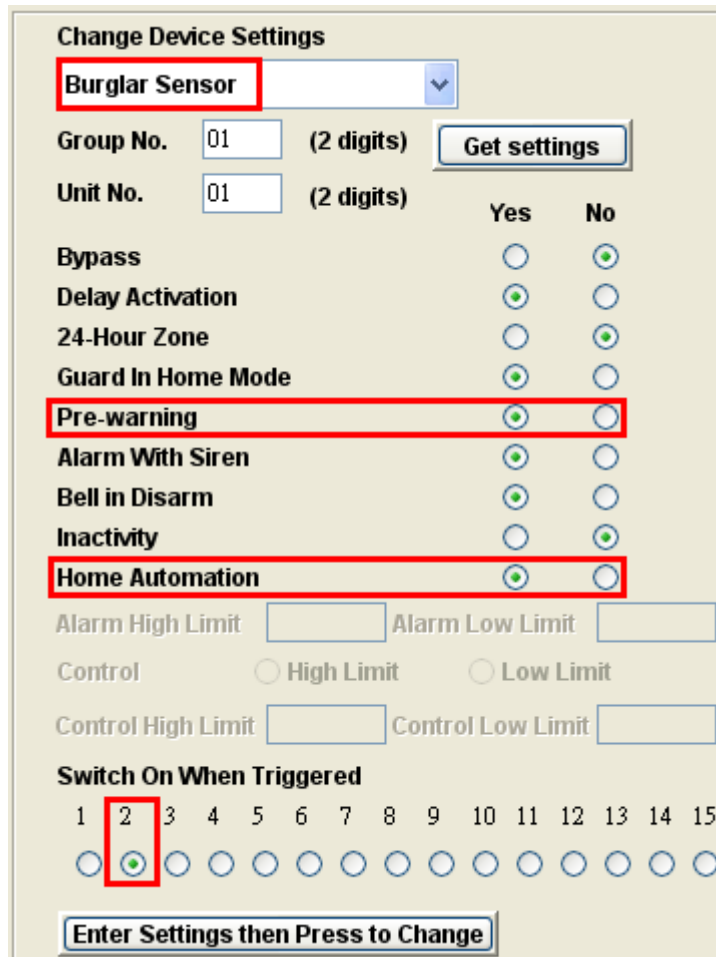
The switch action time when triggered by a Pre-warning Burglar sensor.

***Home Automation Time: 0-30min. (default, 10 min.)**



A control panel for 'Home Automation Switch On Time'. It features an information icon, a help icon, and a refresh icon on the left. The text 'Home Automation Switch On Time' is in the center. On the right, there is a dropdown menu set to 'In Minutes (01-30)' and a numeric input field containing '10'.

The switch action time when triggered by a Burglar Sensor in “Disarm” mode with “Home Automation=Yes”.



A 'Change Device Settings' dialog box for a 'Burglar Sensor'. It includes fields for 'Group No.' (01) and 'Unit No.' (01), both with '(2 digits)' labels and a 'Get settings' button. A table of settings follows, with 'Pre-warning' and 'Home Automation' highlighted in red. Below the table are fields for 'Alarm High Limit', 'Alarm Low Limit', 'Control High Limit', and 'Control Low Limit', with radio buttons for 'High Limit' and 'Low Limit'. At the bottom, there is a 'Switch On When Triggered' section with 15 numbered radio buttons, where button '2' is selected and highlighted in red. A final button reads 'Enter Settings then Press to Change'.

	Yes	No
Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input checked="" type="radio"/>	<input type="radio"/>
24-Hour Zone	<input type="radio"/>	<input checked="" type="radio"/>
Guard In Home Mode	<input checked="" type="radio"/>	<input type="radio"/>
Pre-warning	<input checked="" type="radio"/>	<input type="radio"/>
Alarm With Siren	<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm	<input checked="" type="radio"/>	<input type="radio"/>
Inactivity	<input type="radio"/>	<input checked="" type="radio"/>
Home Automation	<input checked="" type="radio"/>	<input type="radio"/>

(Please refer to 8.4 “Device Status Settings”).

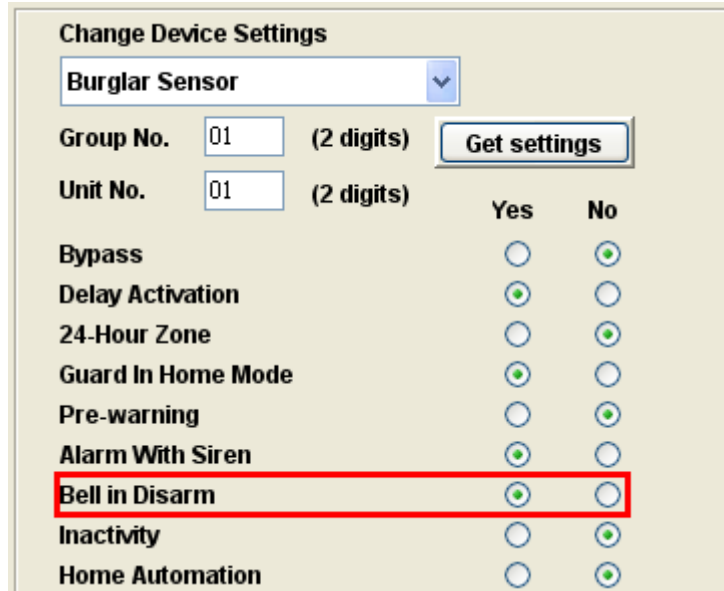
8.3 Setting for Beep & Siren

*Door Bell (default= ON):

The Base Unit will issue a doorbell beep in Disarm Mode when receiving a triggering signal from a Burglar sensor with its “Bell in Disarm = ON”.



Note: The Bell function only works for the Burglar Sensor with “Bell in Disarm = Yes”.

A screenshot of the "Change Device Settings" window. At the top, it says "Change Device Settings" and has a dropdown menu set to "Burglar Sensor". Below this are two input fields: "Group No." with the value "01" and "(2 digits)", and "Unit No." with the value "01" and "(2 digits)". To the right of these fields is a "Get settings" button. Below the input fields is a table with two columns: "Yes" and "No". The table lists several settings with radio buttons next to them:

	Yes	No
Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input checked="" type="radio"/>	<input type="radio"/>
24-Hour Zone	<input type="radio"/>	<input checked="" type="radio"/>
Guard In Home Mode	<input checked="" type="radio"/>	<input type="radio"/>
Pre-warning	<input type="radio"/>	<input checked="" type="radio"/>
Alarm With Siren	<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm	<input checked="" type="radio"/>	<input type="radio"/>
Inactivity	<input type="radio"/>	<input checked="" type="radio"/>
Home Automation	<input type="radio"/>	<input checked="" type="radio"/>

The "Bell in Disarm" row is highlighted with a red border.

*Tamper Siren In Disarm: (default, Off)



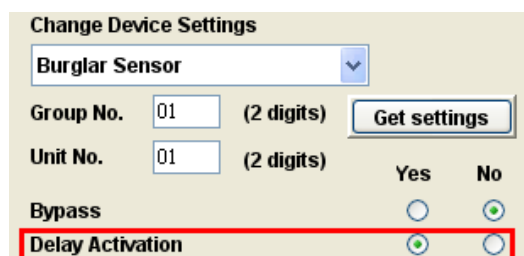
Some of the sensors (Door Magnet, PIR, Keypad) have a Tamper sensor inside, if it was detached from the wall or the case was opened then the sensor would issue a “Tamper” signal to the Base Unit.

Tamper Siren In Disarm=On: The Siren will go off for 10 seconds, if the Base Unit receives a Tamper signal from a sensor or controller in Disarm Mode.

*Entry Delay Beep: ON/OFF (default, ON) (Please refer to 8.2 “Entry Delay”)



Entry Delay Beep ON: The Base Unit will generate beeps during the Entry Delay interval when burglar alarm trips, the beeping speed will get faster until the end of the delay time.

A screenshot of the "Change Device Settings" window, similar to the one above. It shows the "Burglar Sensor" dropdown, "Group No." (01), and "Unit No." (01). The "Get settings" button is present. The table below has the following settings:

	Yes	No
Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input checked="" type="radio"/>	<input type="radio"/>

The "Delay Activation" row is highlighted with a red border.

8.4 Device Status Settings:

Change Device Settings

Controller (2 digits)

Unit No. (2 digits) Yes No

Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input checked="" type="radio"/>	<input type="radio"/>
24-Hour Zone	<input type="radio"/>	<input checked="" type="radio"/>
Guard In Home Mode	<input type="radio"/>	<input checked="" type="radio"/>
Warning Beep delay	<input type="radio"/>	<input type="radio"/>
Alarm With Siren	<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm	<input type="radio"/>	<input type="radio"/>

Change Device Settings

Burglar Sensor (2 digits)

Unit No. (2 digits) Yes No

Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input checked="" type="radio"/>	<input type="radio"/>
24-Hour Zone	<input type="radio"/>	<input checked="" type="radio"/>
Guard In Home Mode	<input checked="" type="radio"/>	<input type="radio"/>
Pre-warning	<input type="radio"/>	<input checked="" type="radio"/>
Alarm With Siren	<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm	<input checked="" type="radio"/>	<input type="radio"/>
Inactivity	<input type="radio"/>	<input checked="" type="radio"/>
Home Automation	<input checked="" type="radio"/>	<input type="radio"/>

Change Device Settings

Fire Sensor (2 digits)

Unit No. (2 digits) Yes No

Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input type="radio"/>	<input checked="" type="radio"/>
24-Hour Zone	<input type="radio"/>	<input checked="" type="radio"/>
Guard In Home Mode	<input type="radio"/>	<input checked="" type="radio"/>
Warning Beep delay	<input checked="" type="radio"/>	<input type="radio"/>
Alarm With Siren	<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm	<input type="radio"/>	<input type="radio"/>
Latch key	<input type="radio"/>	<input checked="" type="radio"/>
Home Automation	<input type="radio"/>	<input type="radio"/>

Change Device Settings

Medical Button (2 digits)

Unit No. (2 digits) Yes No

Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input type="radio"/>	<input checked="" type="radio"/>
24-Hour Zone	<input type="radio"/>	<input checked="" type="radio"/>
Guard In Home Mode	<input type="radio"/>	<input checked="" type="radio"/>
Warning Beep delay	<input checked="" type="radio"/>	<input type="radio"/>
Alarm With Siren	<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm	<input type="radio"/>	<input type="radio"/>
Latch key	<input type="radio"/>	<input checked="" type="radio"/>
Home Automation	<input type="radio"/>	<input type="radio"/>

***Device Bypass (default= No):** (For all devices)

Bypass = Yes: The system will ignore the trigger signal from this sensor.


***Delay Activation(default= Yes):** (For Controller & Burglar sensor)

Delay Activation =Yes: (Refer to **Exit Delay/Entry Delay**.)

For the Remote Controller, the **Exit Delay** time will be imposed on the Away command from this controller.

   **Exit Delay In Seconds (0-255)**

For the Burglar sensor, the **Entry Delay** time will be imposed on the Burglar alarm signal from this sensor.

   **Entry Delay In Seconds (0-255)**

Delay Activation=No: The trigger signal or command from this device will be processed immediately, regardless of the Exit/Entry Delay Time.

***24-Hour Zone (default = NO):** (For Burglar sensor)

24-Hour Zone=YES: This Burglar sensor's trigger signal will be processed all the time regardless of the system's operation mode, either in Arm or Disarm.

24-Hour Zone=NO: This Burglar sensor's trigger signal will only be processed in Arm Mode.

***Guard in Home Mode (PIR default=No, Door Magnet default= Yes):** (For Burglar sensor)

Home Mode =Yes: This Burglar sensor will trigger an alarm in Home Mode operation.

Home Mode=No: This Burglar sensor will not trigger an alarm in Home Mode operation, it will only trigger an alarm in Away Mode operation.

***Pre-warning (default, Pre-warning No):** (For Burglar Sensor)

Pre-warning=Yes: When this device is triggered in Arm Mode, it only turns on the corresponding switches those set by this device for the time set in the **"Prewarning Time"** to warn the person who approaching the protected area. (If 24-Hour Zone set, the switches will turn on anytime when this device is triggered.) but won't trigger burglar alarm.



***Warning Beep Delay (default= Yes):** (For Fire, Medical and Special sensors)

Warning Beep Delay=Yes: If this sensor triggers an alarm, there will be a 30-second warning beep from the Base Unit before the alarm report procedure starts.

Warning Beep Delay=No: There is no beep warning. The Base Unit reports the alarm immediately when there is an alarm triggered by this device.

***Alarm with Siren (default= ON, only OFF for Controller):** (For all devices)

Alarm Siren=Yes: The External Alarm Siren and Wireless Remote Siren will go off when there is an alarm triggered by this sensor after the Delay time passes.

Alarm Siren=No: The sirens will keep silent when there is an alarm triggered by this device.

***Bell In Disarm (default= Yes, for Door Magnet):** (For Burglar sensor)

Bell In Disarm=Yes: In Disarm Mode, the Base Unit will issue a bell beep when receiving a trigger signal from this sensor if the "Door Bell" setting is set to "ON".

Bell In Disarm=No: Doorbell beep will not sound when receiving a trigger signal from this sensor.

Suggestion: This state should be switched on for the Door Magnet sensors on the front and back doors.

Note: The "Door Bell" must also be turned on.



***Inactivity (default = OFF):** (For Burglar Sensor, disabled in "Away" mode)

Inactivity=Yes: This Burglar Sensor is assigned as an **Inactivity Sensor** to monitor the activity of an elderly or physically challenged person. If no activity has been detected during the preset

Inactivity Time (refer to **Inactivity Time**), the **Inactivity Alarm** (medical) will be issued.

Note: “Inactivity” function will be disabled in “Away” mode automatically and will issue alarm if the Inactivity sensor is triggered.



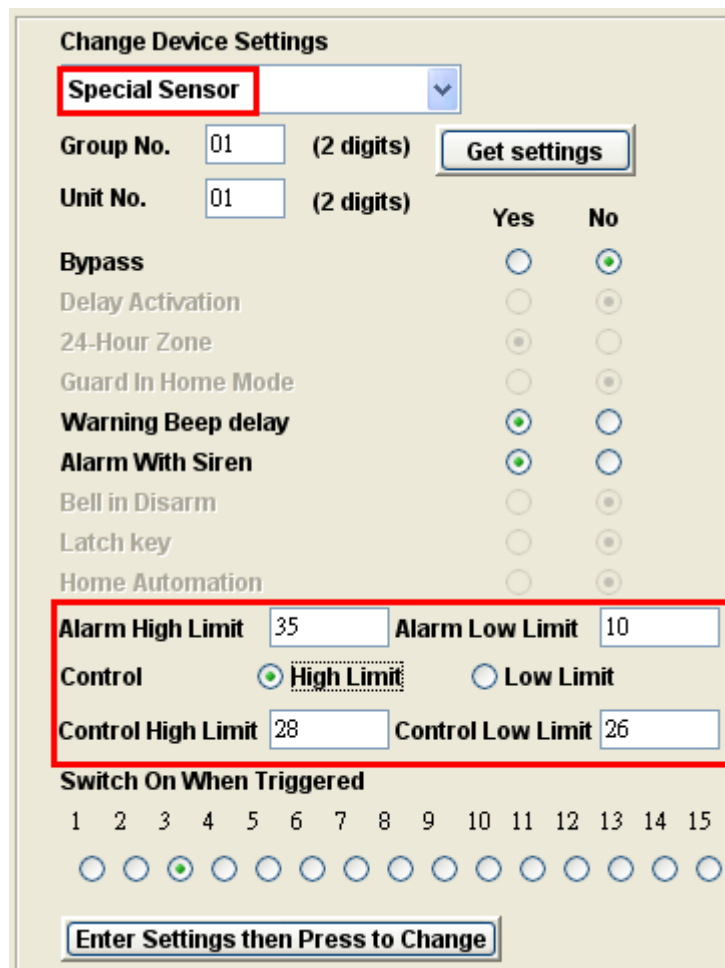
Inactivity=No: This is a normal Burglar Sensor.

***Supervised:** (Automatically set by the sensor itself, refer to **Sensor Supervise Time**.)

Supervised=Yes: System will check the “heartbeat” signal from this sensor.

Supervised=No: System will not check the “heartbeat” signal from this sensor.

8.5 Special Settings for Environment Sensor:



Alarm High Limit/Alarm Low Limit: Set the High/Low alarm limits for the sensors with readings, like temperature sensor. (please refer to **the manual of the Sensor**.)

Ex: Reading above 35 will trigger “High Limit Alarm”, Reading below “10” will issue “Low Limit Alarm”. Empty value will not trigger any alarm.

Control (High Limit/Low Limit):

High Limit: For the control of **cooler type device**, it means when the reading is above the

“Control High Limit” then the corresponding switches will turn on and when the reading is below the “Control Low Limit” the corresponding switches will turn off.

Low Limit: For the control of **heater type device**, it means when the reading is below the “Control Low Limit” then the corresponding switches will turn on and when the reading is above the “Control High Limit” the corresponding switches will turn off.

Control High Limit/Control Low Limit: Set the High/Low limits for the control of the corresponding switches. Empty value will not activate any switches.

8.6 Wire Sensor Input Settings

Wire Sensor Input

Type: **Burglar** (dropdown menu open showing: Panic, **Burglar**, Fire, Medical, Tamper, Controller) Read

Enable Status :	Yes	No
Bypass	<input type="radio"/>	<input type="radio"/>
Delay Activation	<input type="radio"/>	<input checked="" type="radio"/>
24 Hour Zone	<input checked="" type="radio"/>	<input type="radio"/>
Guard In Home Mode	<input type="radio"/>	<input checked="" type="radio"/>
Alarm With Siren	<input type="radio"/>	<input type="radio"/>
Bell in Disarm	<input type="radio"/>	<input checked="" type="radio"/>
Trigger / Away	<input type="radio"/> Open(High) <input type="radio"/> Close(Low)	

Current Status:

Set

Trigger Open/Close (default, Trigger=Close):

Alarm will be triggered by close (grounded) or open (>3V) the sensor input contact (or voltage).

Away Open/Close (default, Away=Close): (For Wire Sensor input assigned as a Controller only)

System will enter Away or Disarm Mode by close (grounded) or open (>3V) the sensor input contact (or voltage).

8.7 Switch On When Triggered: Select the switches that will be activated when this sensor is triggered.

Switch On When Triggered

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Note: Switch #16 is not allowed for this purpose as this switch has been assigned as the indicator of the Arm/ Disarm Status. (refer to Set SW # 16.)

16 SW Assignment **Arm=On** **Disarm=On**

X-10 Switch

As many as 15 X-10 switches can be controlled by each system. For settings of the X-10 switches, refer to the instructions of the X-10 device manual. Only switch 1 to switch 8 can be assigned as RF switches.

Note: For a **Remote Controller**, if you press the DISARM button in DISARM Mode, the switches that have been assigned as active switches will be turned ON or OFF alternatively.

8.8 Switch Settings

*Switch Type (Default X-10 type):



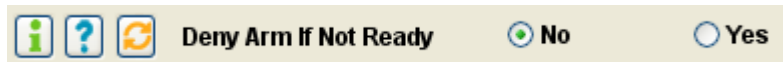
House Code <A-P>: (X-10 Type switch only, default <A>)

This code should be the same as the House Code set on the X-10 switches, user can select from A to P.

8.9 MISC. Settings

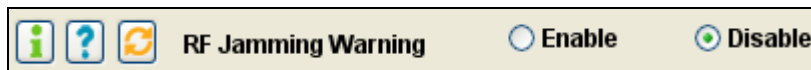
* Deny Arm If Not Ready: (default, No)

If set “yes” then system will not enter into “Away” or “Home” Mode if not all the Door/window Magnet s are closed.



Note: If “Away” or “Home” control is remotely issued by command from HyperSecureLink, App. , or Cloud then system will not care about this setting and enter the Arm Mode immediately.

*RF Jamming Warning: (default, Disable) Enable or disable the RF jamming warning.



*Reset To Factory Default:

All the settings in the Base Unit will be returned to factory default.

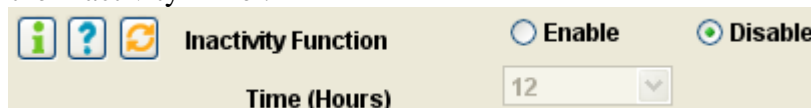


*Inactivity Function: (default, Disable)

Inactivity Enable with time (0-72 hours):

- 1, Treats the Inactivity signal from the Wireless Medical Button as a Medical Alarm.
(The Medical Button will send Inactivity signal if no activity has been detected in 12 hours.)
- 2, If no activity has been detected during this time from any Inactivity Sensor (please refer to **8.4 Device Status Setting-Inactivity**) the system will issue the Inactivity Medical Alarm (with zone number as **00-06**).

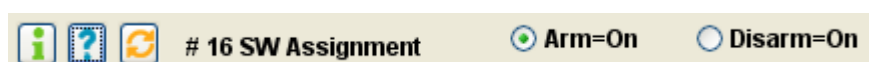
Inactivity Disable: Ignore the Inactivity signal from the Wireless Medical Button and don't check the Inactivity Timer.



*#16 SW Assignment: (default, ARM=ON): Set the #16 switch as an Arm/Disarm status indicator.

Arm= On: The #16 switch will be turned on in **Away and Home** Mode.

Disarm= On: The #16 switch will be turned on in **Disarm and Monitor** Mode.



8.10 CMS Settings

For the user to subscribe the CMS/Cloud services please consult with the service provider first.

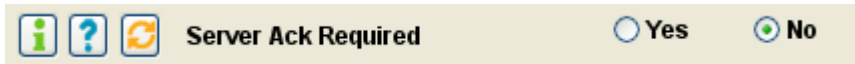
*CMS Account Number:

The user account (8 digits Max.) number for CMS IP Alarm Report.



A screenshot of a software interface showing a text input field labeled "CMS User Account No." with the value "12345678". To the left of the field are three icons: an information icon (i), a question mark icon (?), and a refresh icon (circular arrow).

*Server Ack. Required (default=no)

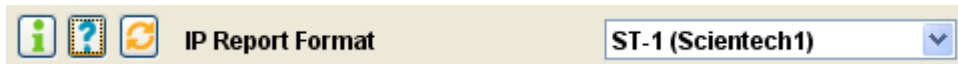


A screenshot of a software interface showing a radio button selection for "Server Ack Required". The "No" option is selected, indicated by a filled green circle. The "Yes" option is unselected, indicated by an empty circle. To the left are three icons: information (i), question mark (?), and refresh (circular arrow).

If there is no acknowledgement from the CMS or Cloud server within 30 seconds after the alarm issued then the alarm report will be resent max. for 3 times.

Note: Since robust TCP/IP protocol is used in alarm data transmission, the fail of transmission is almost impossible.

*Alarm Report Format



A screenshot of a software interface showing a dropdown menu for "IP Report Format" with "ST-1 (Sciencetech1)" selected. To the left are three icons: information (i), question mark (?), and refresh (circular arrow).

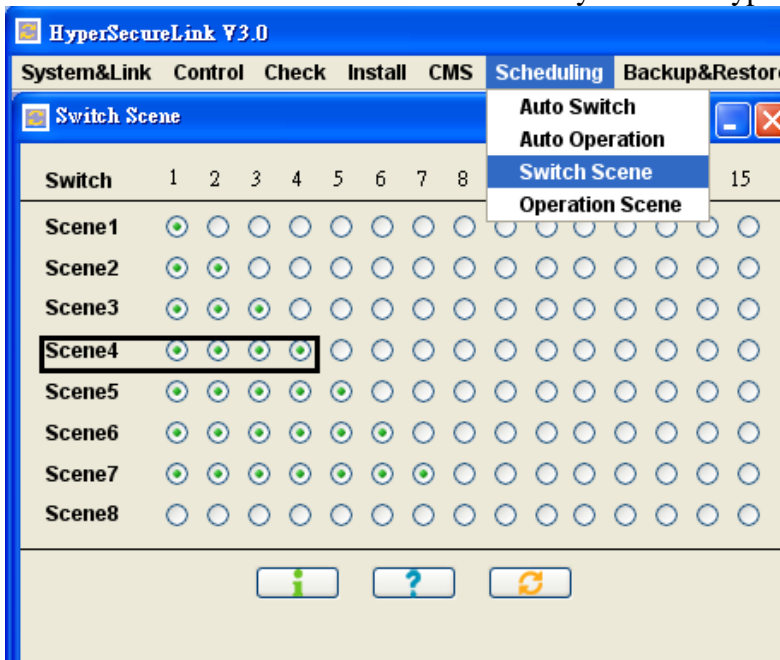
The data format used for reporting to the Cloud Server or Internet CMS Server. Please check with your service provider first, when you connect the LS-10 to the server most of the service providers will set this parameter automatically.

8.11 Scheduling

***Auto Switch:** Please refer to **7. HOME AUTOMATION CONTROL.**

***Auto Operation:** Please refer to **5.4 Automatically Operation scheduling set by HyperSecureLink software.**

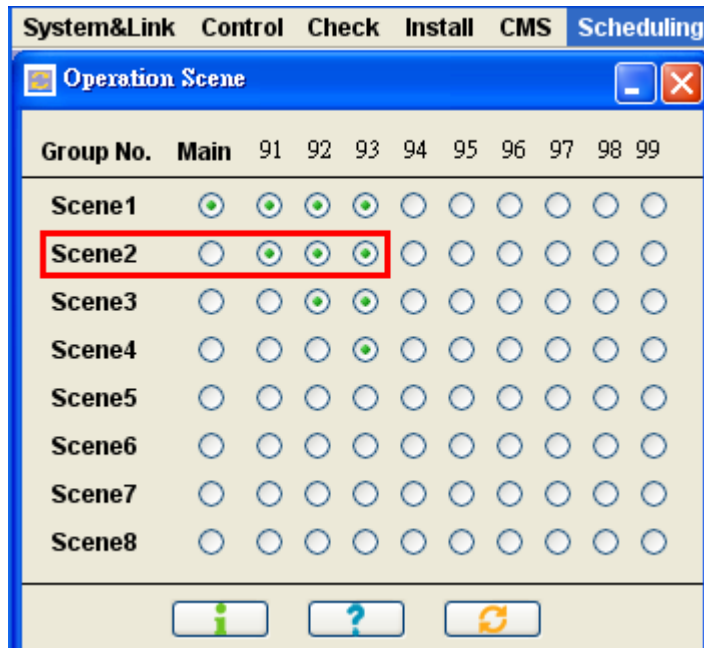
***Switch Scene:** 8 switch scenes can be set and controlled by KP-3S Keypad.



A screenshot of the HyperSecureLink V3.0 software interface. The "Scheduling" tab is active, showing a "Switch Scene" configuration window. The window has a table with 8 columns (Switch 1-8) and 8 rows (Scene 1-8). Each cell contains a radio button. In the "Scene 4" row, the radio buttons for Switch 1, 2, 3, and 4 are selected (filled green circles). A context menu is open over the "Switch Scene" row, showing options: "Auto Switch", "Auto Operation", "Switch Scene" (highlighted), and "Operation Scene". The "Switch Scene" option has a value of "15" next to it. At the bottom of the window are three icons: information (i), question mark (?), and refresh (circular arrow).

Ex.: If Scene 4 is selected by KP-3S then switch 1 to 4 will be turned on.

***Operation Scene:** 8 operation scenes can be set and controlled by KP-3S Keypad



Ex.: If Scene 2 is selected by KP-3S then Partial Zone 91, 92, 93 will enter into "Away Mode".

SPECIFICATIONS

Input Power: 7V DC or Micro USB input.

Standby Current: About 280mA

RF : (Follows local regulations, other frequencies as requested)

Receiving Frequency: 915MHz (For FCC), 868MHz (For CE)

Transmission Frequency: 433MHz

Data Modulation: OOK (On Off Key).

Power: less than 10mW.

Range: about 100m to 300m or more @open field, 25°C (Depends on sensors and Hardware version).

Receiver Type: super heterodyne.

RF Security Code: 16,777,216 combinations with check sum for each type of sensors.

More than 4 billion combinations in total.

Communication Link: Ethernet interface, wifi (Option)

Event Log: max. 512 records.

Display: 4 LEDs (Away/Home/Disarm/Data).

Sensor Zones: total 288 zones. (Burglar zones x 128, Fire zones x 64, Controller zones x 32,
Medical zones x 32, Special sensor zones x 32)

Memory Back-up: CR 2032 Li battery, back-up time minimum 1 year for a new battery without power.

Back Up Battery Connector: 5V USB power pack.

Delay Activation Time: 0- 255 seconds programmable.

Digital Interfaces : micro USB socket.

Internet Interface: RJ45, wifi (Option).

Automation Switch control: RJ11 6-pin

Control of 16 units X-10 switches or (XRM-01) Relay Modules. I2C Adaptor (optional)

Internal beeper for Alarm, warning and status reminding.

Internet CMS protocol: Proprietary Scientech Protocol (ST-I, ST-II), CSV and SIA ADM-CID (2007) IP
Alarm protocol.

Wire Sensor Input: Can be assigned as Panic, Burglar, Fire, Medical, Tamper or Controller.

Alarm Out: Open collector transistor output with 5.1 Ω in series (max 200mA). For 5V external siren or
other alarm device.

Clock Accuracy: within 5 seconds daily. (non for LS-10N)

Operation Temp.: -10°C ~40°C.

Storage Temp.: -20°C ~55°C.

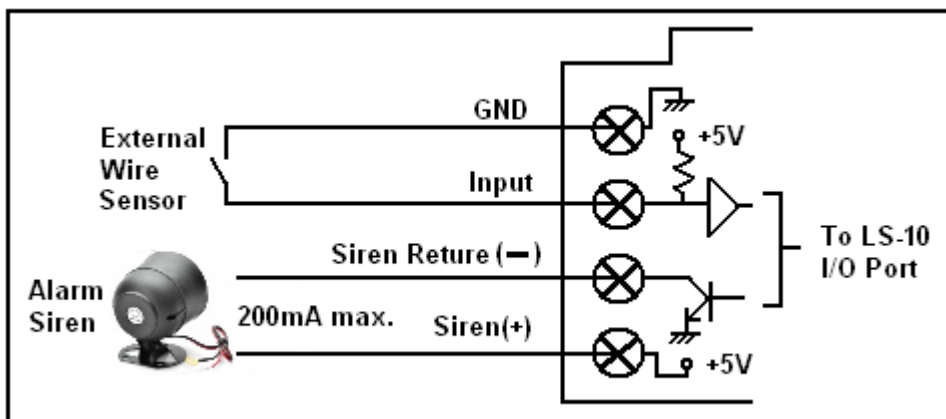
Humidity: 10-95%RH.

Size: 118x78x32 mm.(Main body)

Weight: about 108 g. (Main body)

(The manufacturer reserves the right to change the specifications without prior notice)

Appendix A: I/O Terminals



A.1 External Wire Sensor Input:

The External Wire Sensor should have NO/NC contact and connects to Input and Ground terminals.

It can be assigned as a Controller, Panic, Burglar, Fire, Medical or Tamper device. The Zone number of this input is fixed as “00-03”.

Wire Sensor Input

Type: **Burglar** (dropdown menu options: Burglar, Panic, Burglar, Fire, Medical, Tamper, Controller)

Enable Status :	Yes	No
Bypass	<input type="radio"/>	<input type="radio"/>
Delay Activation	<input type="radio"/>	<input checked="" type="radio"/>
24 Hour Zone	<input checked="" type="radio"/>	<input type="radio"/>
Guard In Home Mode	<input type="radio"/>	<input checked="" type="radio"/>
Alarm With Siren	<input type="radio"/>	<input type="radio"/>
Bell in Disarm	<input type="radio"/>	<input checked="" type="radio"/>

Trigger / Away

Open(High) Close(Low)

Current Status:

Setting of Wire Sensor Type and its parameters from HyperSecureLink software.

A.2 External Alarm Siren Output:

The alarm siren should be connected to the Siren (+) and Siren (-) terminals, the max. current sinks should not over 200mA.

Setting the Alarm Siren Action Time

Alarm Siren Action Time (Default, 60 Seconds.): The time that siren sounds when alarm happens.

Alarm Siren Action Time In Seconds(0-120)

Setting of Alarm Siren Action Time from HyperSecureLink software.

“Alarm with Siren” needs to be enabled on the wire input or sensors if the Sirens (both Wire Siren and Remote Siren) should go off when alarm triggered by this sensor after the Delay time.

Wire Sensor Input

Type: **Burglar** (dropdown menu showing options: Panic, Burglar, Fire, Medical, Tamper, Controller) **Read**

Enable Status :	Yes	No
Bypass	<input type="radio"/>	<input type="radio"/>
Delay Activation	<input type="radio"/>	<input checked="" type="radio"/>
24 Hour Zone	<input checked="" type="radio"/>	<input type="radio"/>
Guard In Home Mode	<input type="radio"/>	<input checked="" type="radio"/>
Alarm With Siren	<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm	<input type="radio"/>	<input checked="" type="radio"/>

Trigger / Away
 Open(High) Close(Low)

Current Status:

Set

Enabling the Alarm Siren of the Wire Sensor Input from HyperSecureLink software.

Change Device Settings

Burglar Sensor (dropdown menu)

Group No. (2 digits) **Get settings**

Unit No. (2 digits)

	Yes	No
Bypass	<input type="radio"/>	<input checked="" type="radio"/>
Delay Activation	<input checked="" type="radio"/>	<input type="radio"/>
24-Hour Zone	<input type="radio"/>	<input checked="" type="radio"/>
Guard In Home Mode	<input checked="" type="radio"/>	<input type="radio"/>
Pre-warning	<input type="radio"/>	<input checked="" type="radio"/>
Alarm With Siren	<input checked="" type="radio"/>	<input type="radio"/>
Bell in Disarm	<input checked="" type="radio"/>	<input type="radio"/>
Inactivity	<input type="radio"/>	<input checked="" type="radio"/>
Home Automation	<input type="radio"/>	<input checked="" type="radio"/>

Enabling the Alarm Siren of the Wireless Sensor (01-01) from HyperSecureLink software.

Appendix B: Partial Zone Control

B.1 Set Partial Zone Operation Mode:

Groups 91 to 99 are nine independent protected zones and these zones can be Armed /Disarmed individually.

Partial Zone		91	92	93	94	95	96	97	98	99
Group No.		91	92	93	94	95	96	97	98	99
Disarm		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Home		<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Away		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Setting of Partial Zone Operation Mode from HyperSecureLink software

The Group Numbers from “91” to “99” are partial arming zones. They can be controlled by a Remote Controller, Wireless Keypad, or through the HyperSecureLink software individually but independent of the main groups (Group Number “01”~”89”).

The Remote Controller or Wireless Keypad with Group Number ”9x” only controls the corresponding burglar sensors with the same Group Number ”9x”. For example, Remote Controller with Group Number “91” only controls (Away, Home, Disarm) the burglar sensors with the Group Number “91”. When the LS-10 receives an AWAY/HOME/DISARM signal from the Remote Controller of Group Number “9x”, the Base Unit’s LEDs (Green, Red and Yellow) will only follow the status of the main groups (Group number ”01”~”89”), unaffected by the status of Group Number “91”~”99”.

B.2 Partial Zone control by KP-3S “Operation Scene Control” function

Operation Scene		Main	91	92	93	94	95	96	97	98	99
Scene1		<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scene2		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scene3		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scene4		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scene5		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scene6		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scene7		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scene8		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Setting Operation Scene from HyperSecureLink software

1, Set Operation Scene from HyperSecureLink software.

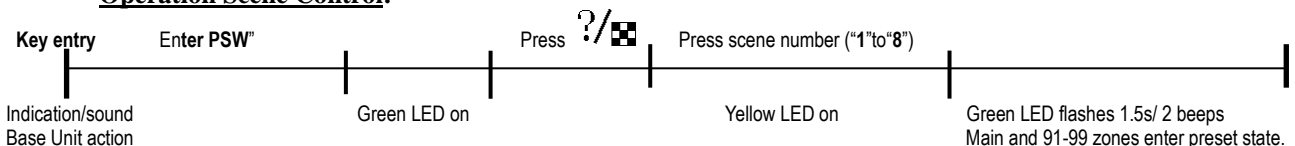
Ex. Scene 1: Main Zone and partial zone 91,92,93 are in “Away” Mode, other partial zones are in “Disarm”Mode.

Scene 2: Main Zone in “Disarm” Mode and partial zone 91, 92 and 93 in “Away” mode, other partial zones are in “Disarm” mode

2, Select Scene from the KP-3S (Please refer to the KP-3S user Guide.)

Note: Before using the Scene Control on the KP-3S, you have to press the “A” and “B” keys simultaneously for 3 seconds then press “1” on the KP-3S to enable this function first.

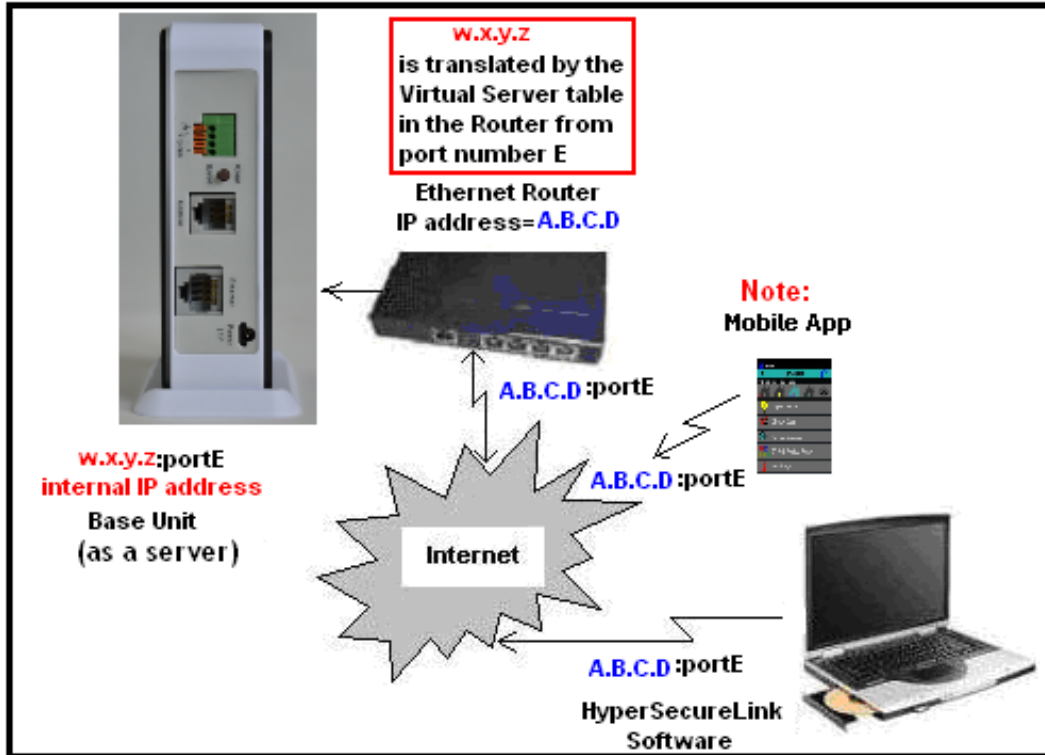
Operation Scene Control:



Appendix C: How to Configure the Internet parameters

C.1, Working with HyperSecureLink Software or Mobile App.

Configure the LS-10 as a server to be accessed by the HyperSecureLink Software or mobile Apps from Internet.



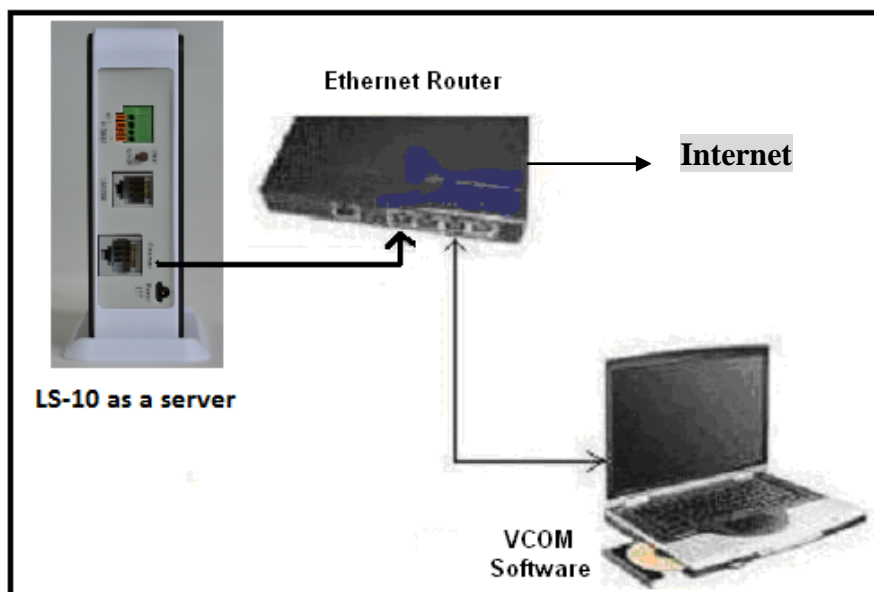
Note: Mobile Apps are from third parties and are not free, please refer to the web sites:

<https://play.google.com/store/apps/details?id=com.uioo.uioomyhome>

<https://play.google.com/store/apps/details?id=com.ts3v.ls30&hl=nl>

C.1.1, LS-10 sets up as a server.

Connect the devices as below, please make sure you have installed the VCOM software in your PC first.



Note: The devices in the picture are only for reference, they may be different from the real ones.

C.1.2, Configure the Ethernet Router.

The following example is for Fixed IP address application. But if you have no Fixed IP address then you can apply some free DDNS service from the internet.

For example D-Link provides free DDNS service for their routers.

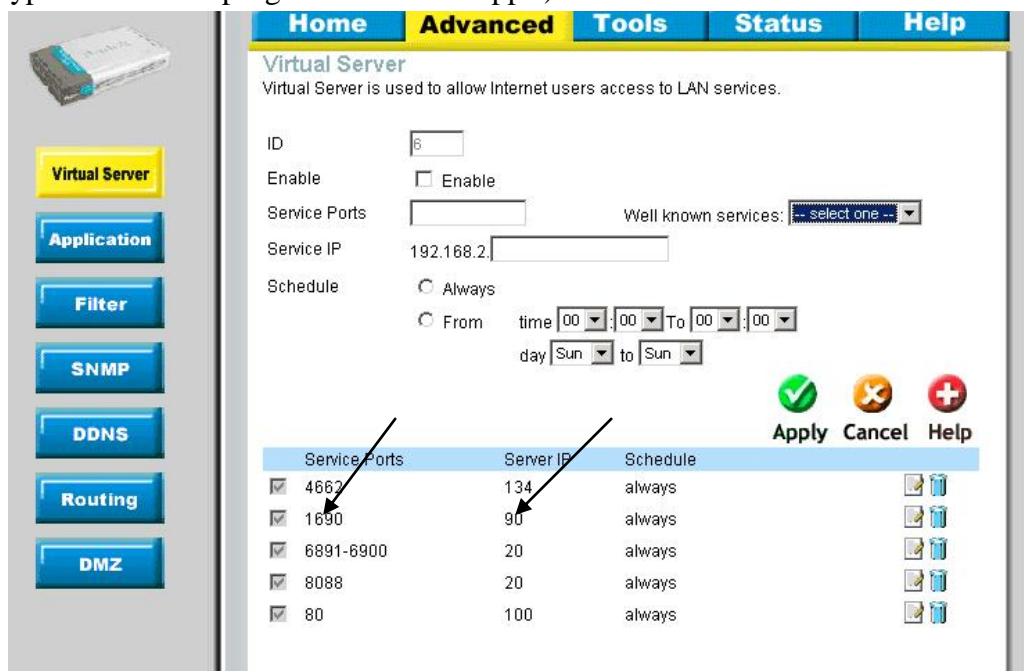
http://support.dlink.com/emulators/wbr2310/tools_ddns.htm

Enter the web page of your Ethernet Router and find the setting of **Virtual Server**.

Select a proper internal IP address and corresponding port number for the TCP/IP communication protocol of the LS-10.

Ex: The internal IP address of **192.168.2.90** and port number **1690** is assigned as the Virtual Server address of the LS-10.

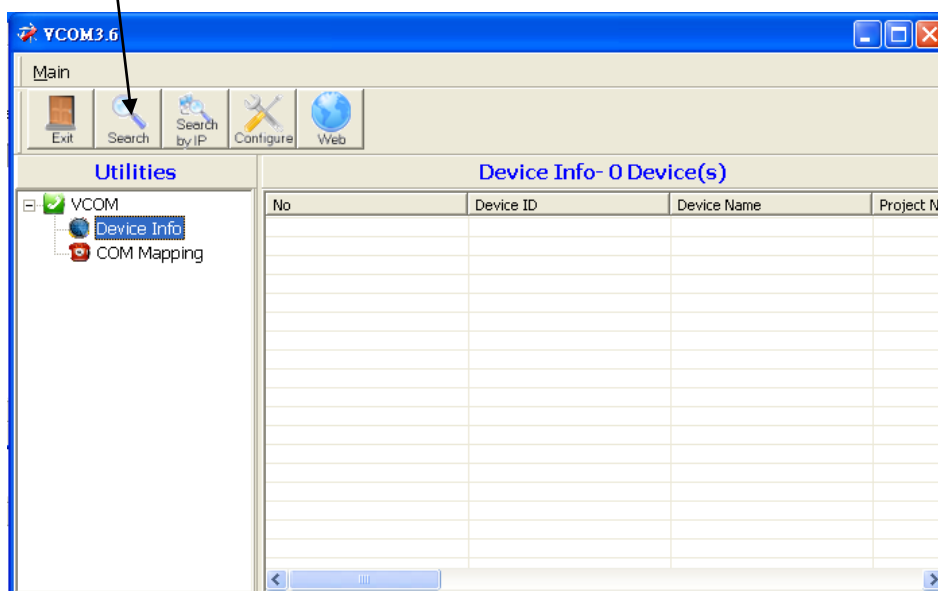
(This IP address and port number will be used to communicate with the LifeSOS system by HyperSecureLink program or mobile Apps.)



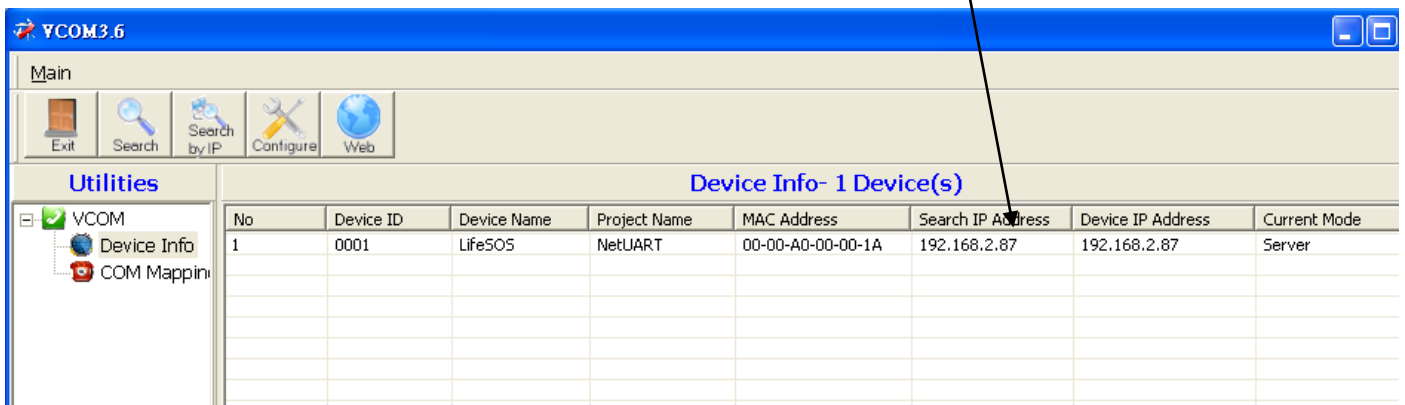
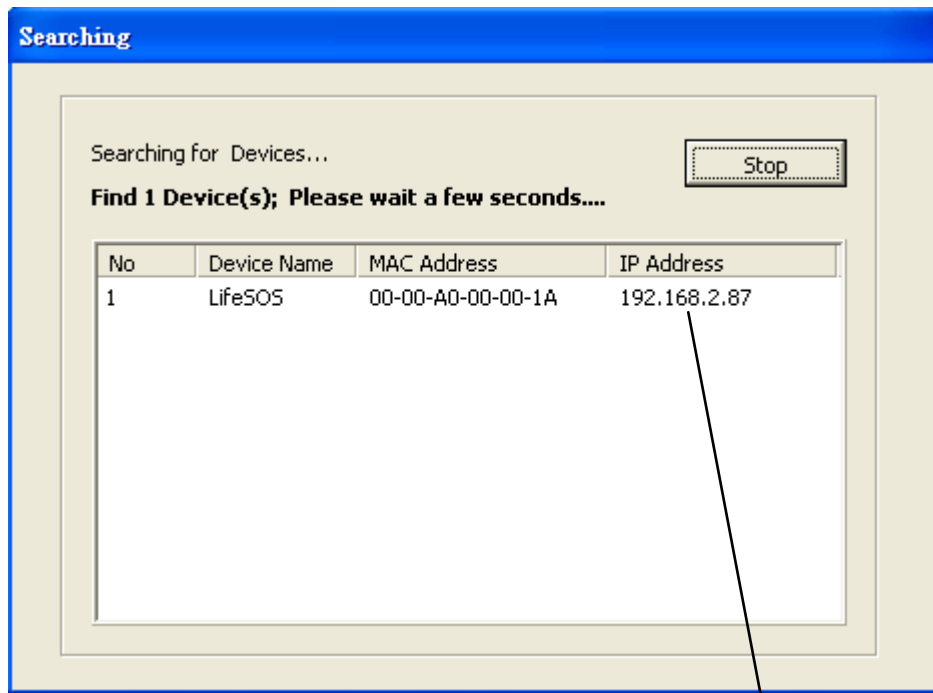
C.1.3, Configure the LS-10

* RUN the VCOM program on your PC.

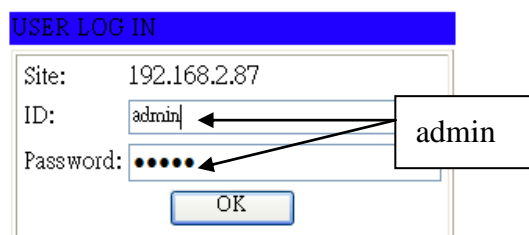
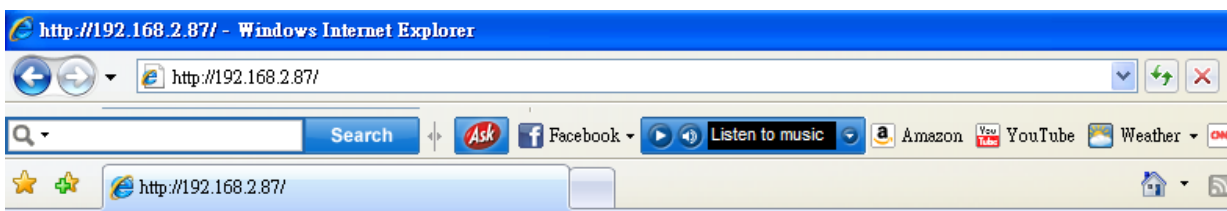
Click the **Search**



* The **VCOM** software searches in the network for the LS-10 and shows the findings on the screen.



* Open the Internet browser you are using and enter the IP address.



* Enter User Name and Password. (Default User Name: **admin**, default Password: **admin**.)

* The setup menu of **Administrator Setting** will be shown on the screen and change the parameters according to your network environment.

Administrator Setting

[TCP Mode](#)
[UDP Mode](#)
[UART](#)
[Reset Device](#)

Kernel Version	V1.43.11 2011/12/13
MAC Address	00:00:A0:00:00:1A
Nickname	LifeSOS
IP Setting	
IP Address	192 . 168 . 2 . 90
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 2 . 1
DNS	139 . 175 . 55 . 244
IP Configure	<input checked="" type="radio"/> Static <input type="radio"/> DHCP
Password Setting	
Username	admin max:15
Password max:15
Confirm
Update	
Load Default Setting to EEPROM	Load

Nickname: Name or location of the system.

IP Address: As the setting of the Virtual Server in the Ethernet Router.

Subnet mask: 255.255.255.0

Gateway: Please enter the gateway address of your Ethernet Router.

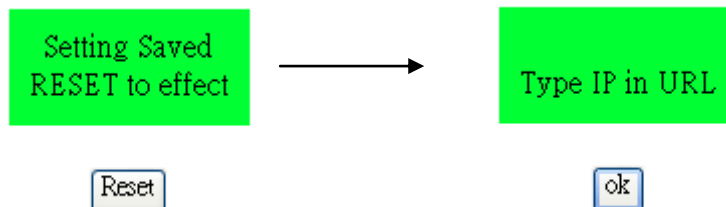
DNS: Please get this address information from your ISP.

IP Configure: To operate as a server, Static must be selected

Password Setting: Enter new User Name and Password.

Note: If you change the User Name and Password, please make sure that you write them down on a paper otherwise if you forget the new User Name and Password then this adaptor will not be accessed any more.

* If any of the settings has been changed then double click the **Update** to update the settings.



Then Click the **Reset** to save the settings.

If the IP address has been changed then enter the new IP address and User Name/ Password to access the LS-10 setup web page again.

(You can use VCOM software to locate the new IP address.)

* Select **TCP Mode** and change the settings according to your network environment:

- [Administrator Setting](#)
- [TCP Mode](#)
- [UDP Mode](#)
- [UART](#)
- [Reset Device](#)

TCP Control

Item	Value
Telnet Server/Client	<input checked="" type="radio"/> Server <input type="radio"/> Client <input type="radio"/> Disable
Port Number	<input type="text" value="1690"/>
Remote Server IP Address	<input type="text" value="0"/>
Client mode inactive timeout	<input type="text" value="20"/> minute (1~99,0=Disable)
Server mode protect timeout	<input type="text" value="60"/> minute (1~98,0=Disable,99=Can't replace)
<input type="button" value="Update"/>	

Telnet Server/Client: Select **Server**.

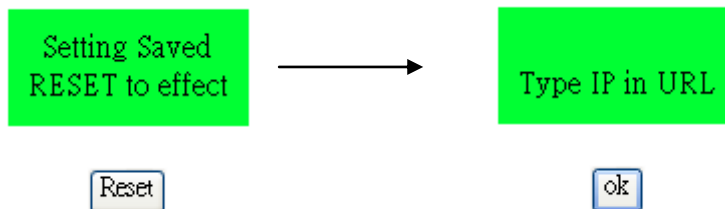
Port Number: As the setting of the Virtual Server in the Ethernet Router.

Remote server IP Address: Don't care.

Client mode inactive timeout: 20 minutes (default).

Server mode protect timeout: 60 minutes (default).

* If any of the settings has been changed then double click the **Update** to update the settings.



Then Click the **Reset** to save the settings.

* Select **UART** to check if the settings are the same as below.

- [Administrator Setting](#)
- [TCP Mode](#)
- [UDP Mode](#)
- [UART](#)
- [Reset Device](#)

UART Control

Item	Setting
Mode	RS232
Baudrate	9600
Character Bits	8
Parity Type	none
Stop Bit	1
Hardware Flow Control	none
Delimiter	<input type="checkbox"/> Character 1: 00, <input type="checkbox"/> Character 2: FF <input type="checkbox"/> Silent time: 5 (1~255)*200ms <input type="checkbox"/> Drop Character

Mode: RS-232.

Baudrate: 9600.

Character Bits: 8.

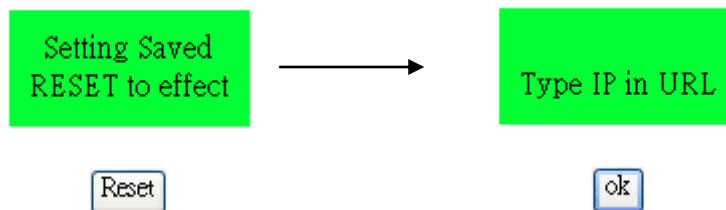
Parity Type: None

Stop Bit: 1.

Hardware Flow Control: None.

Delimiter: No need

* If any of the settings has been changed then double click the **Update** to update the settings.



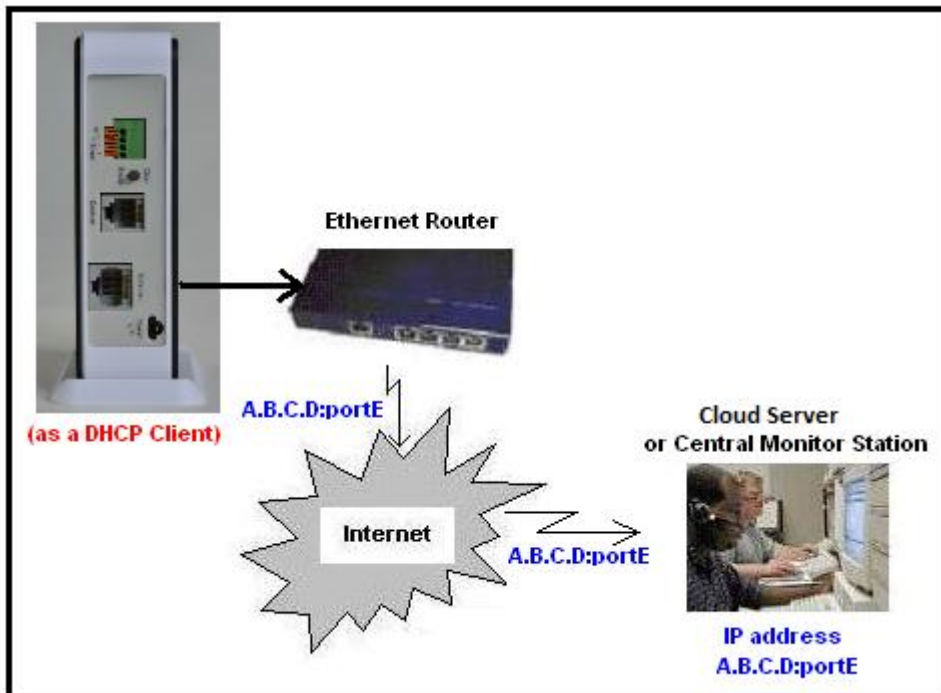
Then Click the **Reset** to save the settings.

● The setting is completed here and the Ethernet Adapter is at your service.

About the **HyperSecureLink** software please refer to the **HyperSecureLink user guide**.

C.2, Working with a **Cloud server** or **Central Monitoring Station (CMS)**.

(This setting is only valid for the user who has Cloud or CMS service. User has to know the IP address and port number of the Cloud server or CMS service before setting the LS-10.)



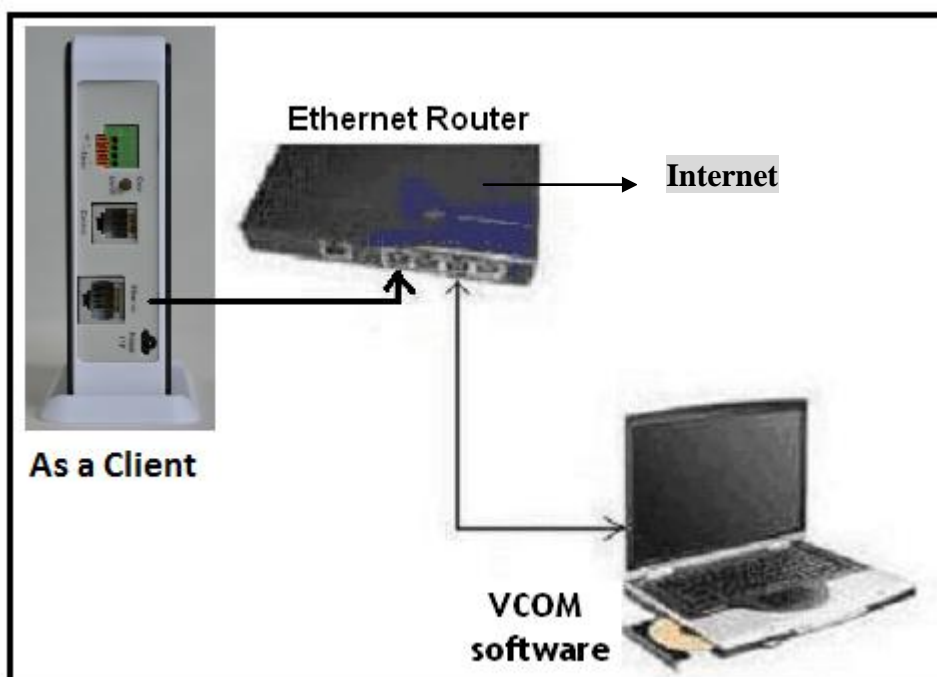
Note: For the Cloud Server or Central Monitor Station please refer to web sites:

Cloud Server: www.livingpattern.co or <http://www.abell-security.com>

Central Monitor Station: www.iklomp.com

C.2.1, LS-10 sets up as a client.

Connect the devices as below, please make sure you have installed the **VCOM** software in your PC first.

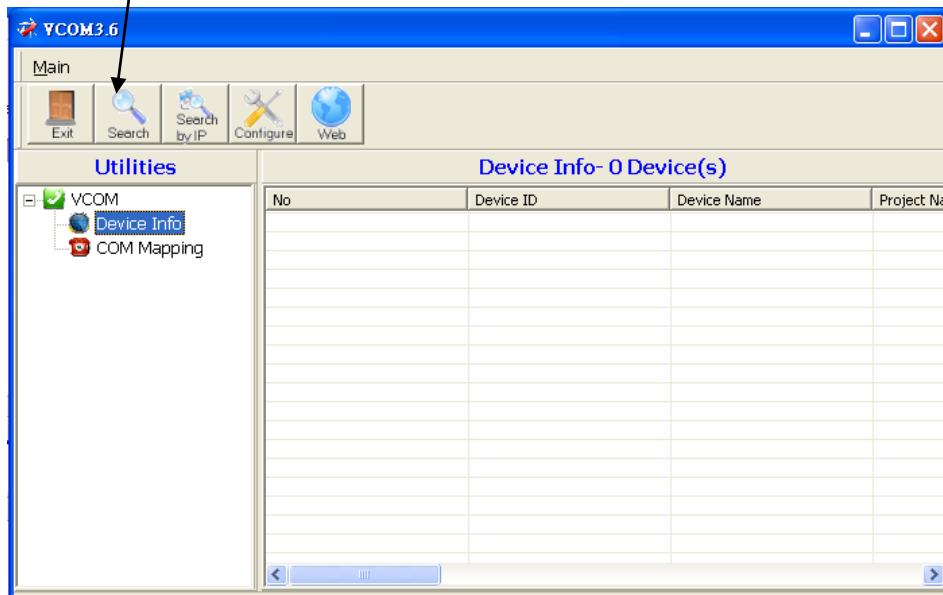


Note: The devices in the picture are only for reference, they may be different from the real ones.

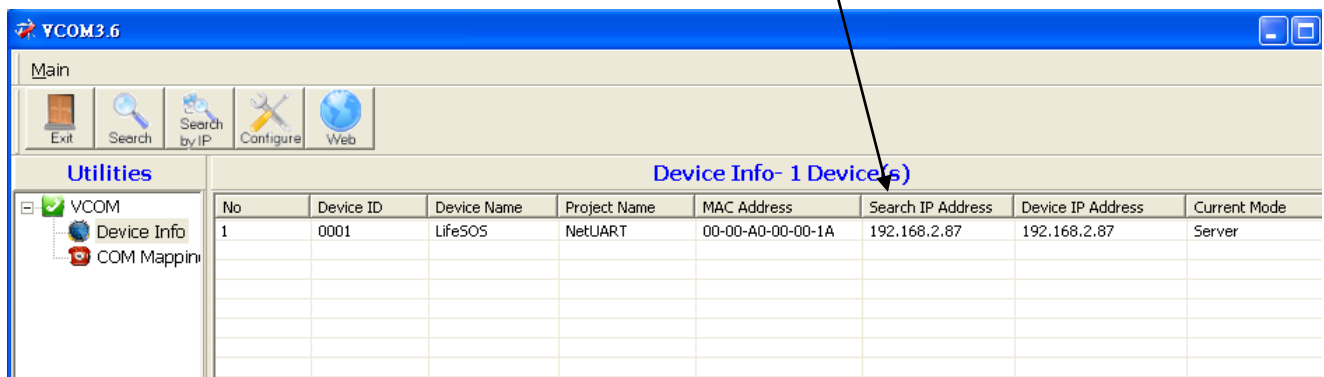
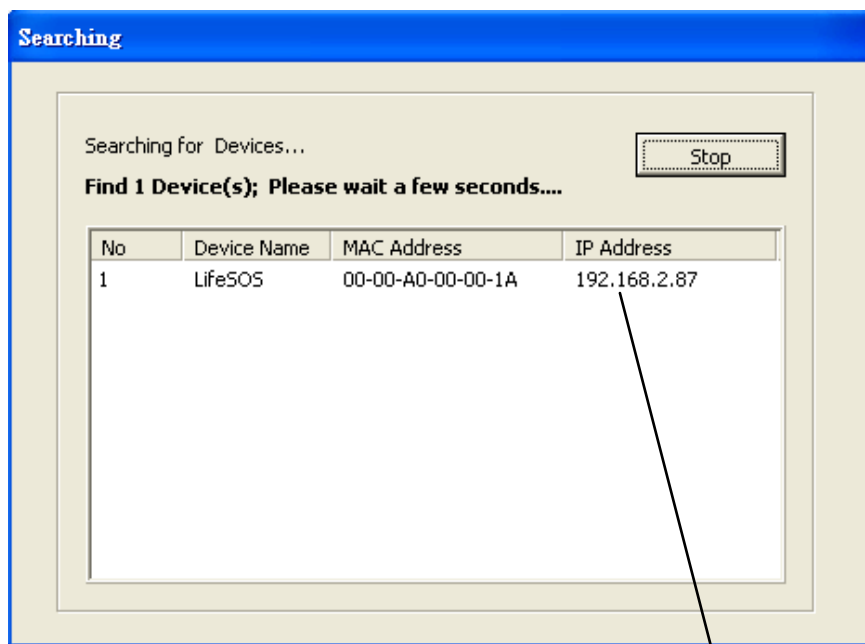
C.2.2, Configure the LS-10

* RUN the VCOM program on your PC.

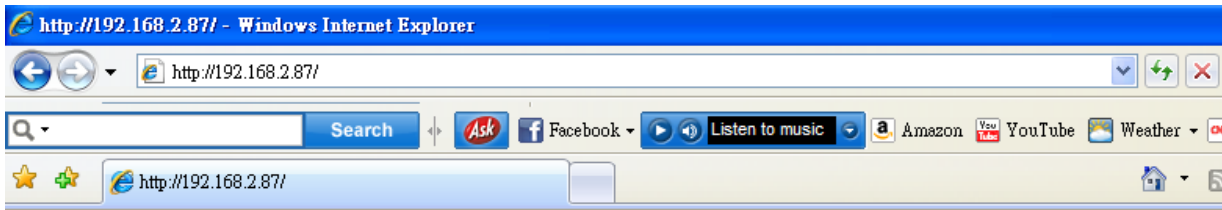
Click the **Search**



* The **VCOM** software searches in the network for the LS-10 Ethernet Adapter and shows the findings on the screen.



* Open the Internet browser you are using and enter the IP address.



USER LOG IN

Site: 192.168.2.87

ID: admin

Password: ●●●●

OK

admin

* Enter User Name and Password.

(Default User Name: **admin**, default Password: **admin**.)

* The setup menu of **Administrator Setting** will be shown on the screen and change the “IP Configure” to “DHCP”.

- [Administrator Setting](#)
- [TCP Mode](#)
- [UDP Mode](#)
- [UART](#)
- [Reset Device](#)

Kernel Version	V1.43.12 2012/03/22
MAC Address	00:0E:E3:00:10:07
Nickname	LifeSOS
IP Setting	
IP Address	192 . 168 . 2 . 87
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 2 . 1
DNS	139 . 175 . 55 . 244
IP Configure	<input type="radio"/> Static <input checked="" type="radio"/> DHCP
Password Setting	
Username	admin max:15
Password	●●●● max:15
Confirm	●●●●
Update	

Nickname: Name or location of the system.

IP Address: Don't care

Subnet mask: 255.255.255.0

Gateway: Don't care.

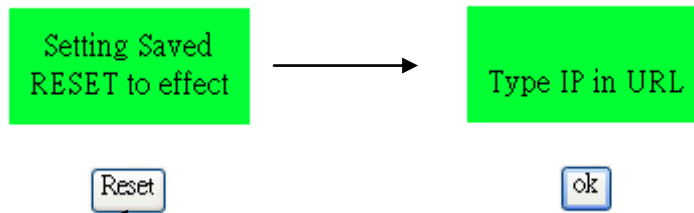
DNS: Don't care.

IP Configure: To operate as a client, **DHCP** must be selected

Password Setting: Enter new User Name and Password.

Note: If you change the User Name and Password, please make sure that you write them down on a paper otherwise if you forget the new User Name and Password then this adaptor will not be accessed any more.

* If any of the settings has been changed then double click the **Update** to update the settings.



Then Click the **Reset** to save the settings.

Use VCOM software to locate the new IP address and enter the LS-10 setup web page again.

* Select **TCP Mode** and change the settings according to the information from the web server or CMS service provider.

- [Administrator Setting](#)
- [TCP Mode](#)
- [UDP Mode](#)
- [UART](#)
- [Reset Device](#)

TCP Control

Item	Value
Telnet Server/Client	<input type="radio"/> Server <input checked="" type="radio"/> Client <input type="radio"/> Disable
Port Number	<input type="text" value="2000"/>
Remote Server IP Address	<input type="text" value="210.68.28.137"/>
Client mode inactive timeout	<input type="text" value="20"/> minute (1~99,0=Disable)
Server mode protect timeout	<input type="text" value="60"/> minute (1~98,0=Disable,99=Can't replace)

Telnet Server/Client: Select **Client**.

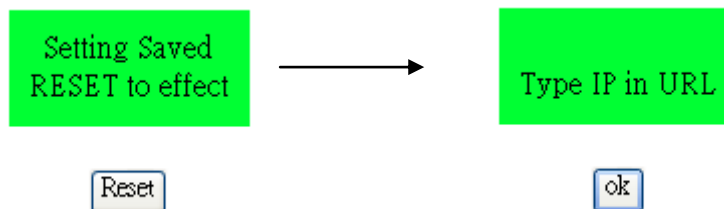
Port Number: Please check with your web server or CMS service provider for this information.

Remote server IP Address: Please check with your web server or CMS service provider for this information, either IP address or domain name.

Client mode inactive timeout: 20 minutes (default).

Server mode protect timeout: 60 minutes (default).

* Double click the **Update** to update the settings.



Then Click the **Reset** to save the settings.

* Select **UART** to check if the settings are the same as below.

- [Administrator Setting](#)
- [TCP Mode](#)
- [UDP Mode](#)
- [UART](#)
- [Reset Device](#)

UART Control

Item	Setting
Mode	RS232
Baudrate	9600
Character Bits	8
Parity Type	none
Stop Bit	1
Hardware Flow Control	none
Delimiter	<input type="checkbox"/> Character 1: 00, <input type="checkbox"/> Character 2: FF <input type="checkbox"/> Silent time: 5 (1~255)*200ms <input type="checkbox"/> Drop Character

Mode: RS-232.

Baudrate: 9600.

Character Bits: 8.

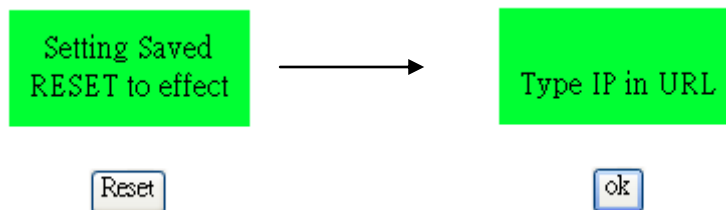
Parity Type: None

Stop Bit: 1.

Hardware Flow Control: None.

Delimiter: No need

* If any of the settings has been changed then double click the **Update** to update the settings.



Then Click the **Reset** to save the settings.

- The setting is completed here and check with your web server or CMS service provider if they can receive the report from your system.

Appendix D: Switch Action Table for Burglar Sensors

PW= Pre-warning, HA= Home Automation, A= Away, H=Home, D=Disarm, M=Monitor, S=Motion Stop

Door Mag. (Guard in Home Mode, no Inactivity)

Inact	PW	HA	24H	State	Alarm	Switch on time	CID code		Remark
NO	NO	NO	Yes	A/H	Yes	Alarm	Burg		
NO	NO	NO	Yes	D/M	Yes	Alarm	Burg		
NO	NO	NO	NO	A/H	Yes	Alarm	Burg		
NO	NO	NO	NO	D/M	NO	NO	NO		
NO	Yes	NO	Yes	A/H	NO	Pre-warning	Near Alarm		
NO	Yes	NO	Yes	D/M	NO	Pre-warning	Near Alarm		
NO	Yes	NO	NO	A/H	NO	Pre-warning	Near Alarm		
NO	Yes	NO	NO	D/M	NO	NO	NO		
NO	NO	Yes	Yes	A/H	Yes	Alarm	Burg		
NO	NO	Yes	Yes	D/M	Yes	Alarm	Burg		
NO	NO	Yes	NO	A/H	Yes	Alarm	Burg		
NO	NO	Yes	NO	D/M	NO	Home Auto	NO		
NO	Yes	Yes	Yes	A/H	NO	Pre-warning	Near Alarm		
NO	Yes	Yes	Yes	D/M	NO	Pre-warning	Near Alarm		
NO	Yes	Yes	NO	A/H	NO	Pre-warning	Near Alarm		
NO	Yes	Yes	NO	D/M	NO	Home Auto	NO		

PIR (Not Guard in Home Mode, Inactivity)

Inact	PW	HA	24H	State	Alarm	Switch on time	CID code		Remark
NO	NO	NO	Yes	A/H	Yes	Alarm	Burg		
NO	NO	NO	Yes	D/M	Yes	Alarm	Burg		
NO	NO	NO	NO	A	Yes	Alarm	Burg		
NO	NO	NO	NO	D/M/H	NO	NO	NO		
NO	Yes	NO	Yes	A/H	NO	Pre-warning	Near Alarm		
NO	Yes	NO	Yes	D/M	NO	Pre-warning	Near Alarm		
NO	Yes	NO	NO	A	NO	Pre-warning	Near Alarm		
NO	Yes	NO	NO	D/M/H	NO	NO	NO		
NO	NO	Yes	Yes	A/H	Yes	Alarm	Burg		
NO	NO	Yes	Yes	D/M	Yes	Alarm	Burg		
NO	NO	Yes	NO	A	Yes	Alarm	Burg		
NO	NO	Yes	NO	D/M/H	NO	Home Auto& S	NO		
NO	Yes	Yes	Yes	A/H	NO	Pre-warning	Near Alarm		
NO	Yes	Yes	Yes	D/M	NO	Pre-warning	Near Alarm		
NO	Yes	Yes	NO	A	NO	Pre-warning	Near Alarm		
NO	Yes	Yes	NO	D/M/H	NO	Home Auto& S	NO		

For Any Burglar Sensor Assigned as An Inactivity Monitoring Device

DC=Don't Care

Inact	PW	HA	24H	State	Alarm	Switch on time	CID code	Remark
Yes	DC	Yes	DC	A	Yes	Alarm	Burg	Disable Inactivity
Yes	DC	Yes	DC	D/M/H	NO	HA	NO	Trigger Medical Alarm if no action detected in the Inactivity Time
Yes	DC	NO	DC	A	Yes	Alarm	Burg	Disable Inactivity
Yes	DC	NO	DC	D/M/H	NO	NO	NO	Trigger Medical Alarm if no action detected in the Inactivity Time

Appendix E: Load Factory Default of Internet Adaptor

If user forgot the Device ID/ Password, the LS-10 works abnormally or couldn't be found by VCOM software then user can load the Factory Default to re-initialize the device.

D.1, Disconnect the power/data cable from the LS-10

D.2, Open the cover of the LS-10.

D.3, Take out the Jumper from JP3 (Remember the position of the Jumper on JP3) and put the Jumper on JP1

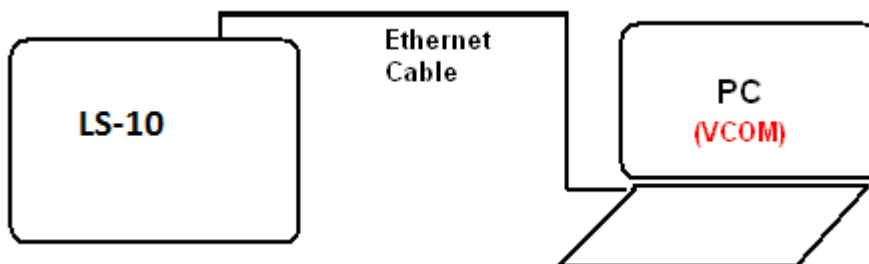


D.4, Apply the power to LS-10 for 3 seconds.

D.5, Disconnect the power/data cable.

D.6, Put the Jumper back to the original position on the JP3.

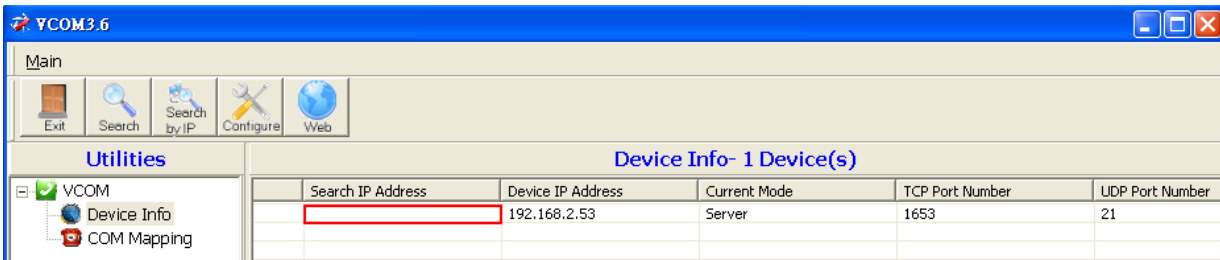
D.7, Using Ethernet cable to Connect the LS-10 and PC directly as below.



D.8, Run the VCOM and you will see the device on the list.

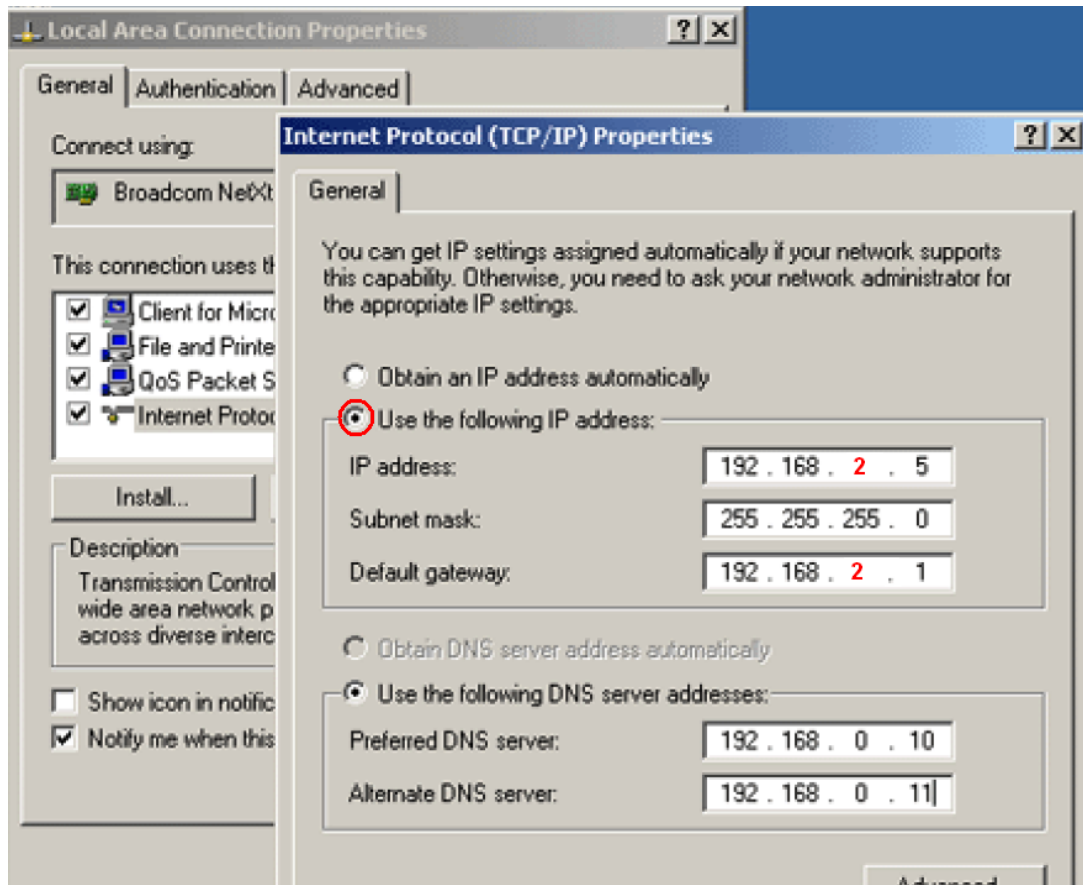
Note: If the PC and the LS-10 are not in the same IP segment then “Search IP Address” will be blank and the little “Searching” screen will not show.

Ex: If the IP address of PC is 192.168.0.x and the default address of LS-10 is 192.168.2.xx then “Search IP Address” will be blank as below.

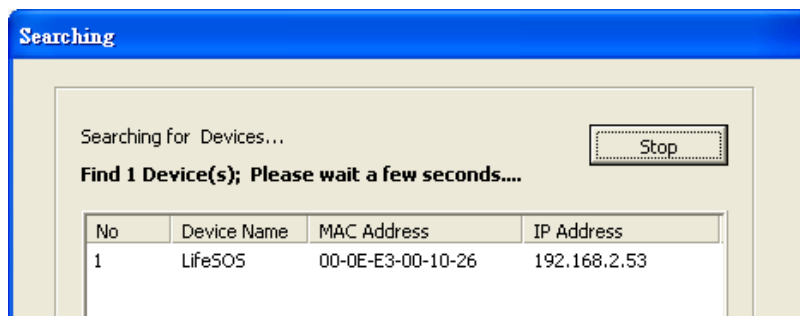


D.9, Change the IP address and the Gateway address of the PC to the same segment of the LS-10.

Ex: Since the IP address of LS-10 is 192.168.2.53 then set the IP address and Default gateway to 192.168.2. xx as below.



D.10, Run the VCOM again then LS-10 will be show on the “Searching” screen.



D.11, Open an Internet Browser and set the LS-10 according to your network requirement.

D12, Disconnect the Ethernet cable and put the cover back.

D13, Connect your PC and the LS-10 to the Internet.

D14, Restore your PC TCP/IP settings.

WARRANTY

The Manufacturer warrants its products (hereinafter referred to as the Product) to be in conformance with its own plans and specifications and to be free of defects in materials and workmanship under normal use and service for a period of twelve months from the date of shipment by the Manufacturer. The Manufacturer's obligations shall be limited within the warranty period. At its option, to repair or replace the Product or and part thereof. To exercise the warranty the Product must be returned to the Manufacturer freight prepaid and insured.

This 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.

This 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 apply to the Product only. All Products, accessories or attachments of others used in conjunction with the Products, 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 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.

NOTE: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

