LS-20**The Universal Box**

HOME MANAGEMENT GATEWAY



OPERATION MANUAL V1.03

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INTRODUCTION

Thank you for purchasing the LS-20 the Universal Home Management Gateway.

By adopting modern embedded system and Cloud Server technologies, the LS-20 is designed to provide all the most advanced features to meet your security and home management requirements through Internet.

The LS-20 not only provides you a secure life but also a convenient living environment that allows you to control remote switches through a cloud server, mobile App. or PC by using **HyperSecureLink** software from all over the world. With different environmental sensors, the LS-20 also plays as an environmental monitor center to collect all the environmental data and control corresponding appliances to save your energy consumption automatically.

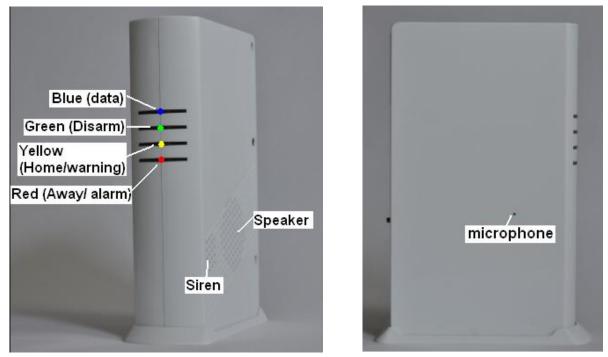
As your requirements grow and you become more familiar with the system, you can expand and accessorize the LS-20 to meet your specific needs. Simply call your local dealer; trained professionals can answer any questions you have regarding additional accessories.

Main Features:

- 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 or Ethernet interface, all commands are compatible to LS-10/30.
- Report any activity through Internet in real time with fast response and saving user's communication expenses.
- Built-in detailed 512-event log.
- 4 LED display for Away/ Home/ Disarm and Data transmission indication.
- Voice prompt and warning message to inform user about the status. (optional)
- GSM/GPRS module for spare communication and alarm report if Internet fails. (option)
- 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-20 can operate as 10 independent burglar alarm systems.
- Scheduled switch operation for a whole week automatically.
- 8 switch and operation scenes controlled by Keypad.
- 3 external wire sensor inputs and alarm siren control output.
- Battery backup for operation up to 16 hours.

• 1. BASE UNIT

1.1 Display

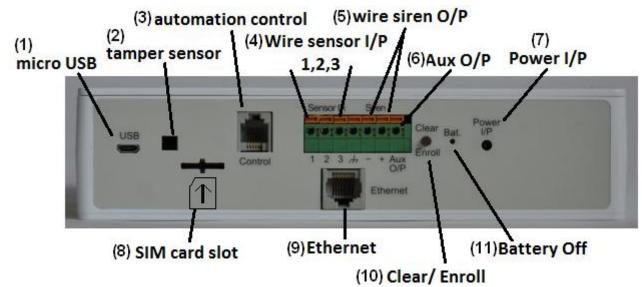


The Blue LED flashes when there is data sending out from the LS-20.

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

	Red	Yellow	Green (Flash
State			rate slows down
LED			while AC loss.)
DISARM	OFF	OFF	Flash
HOME	OFF	Flash	OFF
AWAY	Flash	OFF	OFF
DISARM with Warning	OFF	ON	Flash
Message			
DISARM with Alarm	ON	OFF	Flash
Message			
DISARM with Warning &	ON	ON	Flash
Alarm Message			
HOME with Warning Message	OFF	ON	OFF
HOME with Alarm Message	ON	Flash	OFF
HOME or AWAY with	ON	ON	OFF
Warning & Alarm Message			
AWAY with Warning Message	Flash	ON	OFF
AWAY with Alarm Message	ON	OFF	OFF

1.2 Rear Panel:



- (1). micro USB: Connect to PC for accessing from HyperSecureLink software.
- (2). tamper sensor: for tamper detection (Only for wall mounting bracket.)
- (3). automation control: RJ-9 connector for X-10 control interface.
- (4). 3 wire sensor input terminals.
- (5). wire siren output terminals.
- (6). Aux output: for Arm/Disarm indication (only driver LED)
- (7). Power Socket: 7V DC power input.
- (8). SIM Card slot: For GSM SIM card (only for the GSM/GPRS version)
- (9). RJ-45 Ethernet Socket: Connect to the Ethernet network.
- (10). Clear/Enroll Button:

Clear LED Status: Press the button for about 0.2 sec. to clear the alarm and warning LED status.

Clear Status

The LED status also can be cleared from HyperSecureLink command.

Device Enroll: Press the button for about 3 sec. the LS-20 enters into Enroll Device State for 30 seconds. (Buzzer beeps and Green, Yellow, Red LEDs flash) Please refer to Section 4.1.

(11). Battery Off: Stick in a straightened paper clip to turn off the battery when the main power input

has been removed. (Note: The back-up battery starts to charge automatically while

power on.)

1.3 Mounting Bracket:

LS-20 can sit on a stand vertically or put in a wall mounting bracket as below.



Base Unit Stand



Wall Mounting Bracket (option)

Status	Веер		LED		Remark
		G	Y	R	
PWR On (OK)	Beeps on operation mode	В			
Disarm	1L	В			
Monitor	1L	В			
Home	28		В		
Away	48			В	
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		0		
Alarm delay	M-M-M (30sec.)			0	
Panic alarm	L-L-L			0	
(Siren On)	(as Alarm Action Time)				
Burglar alarm	L-L-L			0	
(Siren On)	(as Alarm Action Time)				
Fire alarm	L-L-L			0	
	(as Alarm Action Time)				
Medical alarm	L-L-L			0	
	(as Alarm Action Time)				
Environment sensor	L-L-L			0	
alarm	(as Alarm Action Time)				
Device Enroll	M-M-M	В	В	В	
	(30sec. or till success)				
Device Enroll succeed	38				
Device Enroll failed	1L				
Siren test	18				
Door Bell	1S+1M				
Been	•			FD	

1.4 Beeps & LED indication (without audio board)

Beep

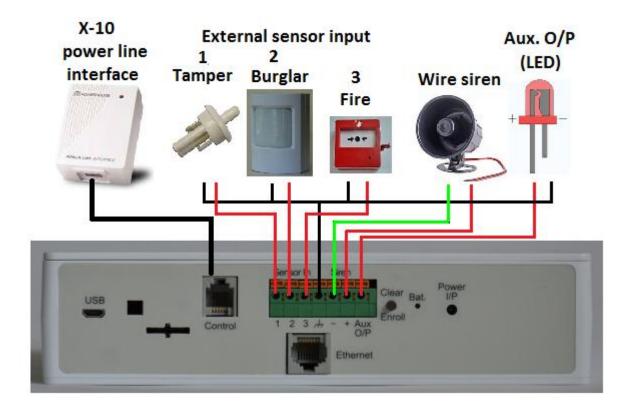
LED O: On

B:Blink

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



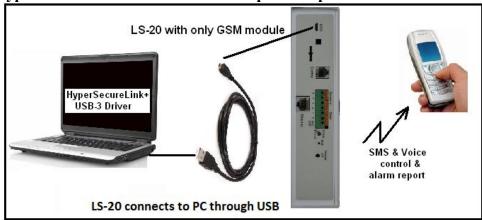
2, External Control and Indicator Connection Diagram

3, Working Scenario:

LS-20 can work standalone with Free HyperSecureLink software, third party's Mobile App (MyHome) or connect to a cloud server to enjoy much more service from the provider.

3.1 Programming the LS-20 through USB to connecting to GSM network.

Note: For the LS-20 with only GSM communication module, please use USB and HyperSecureLink software to set the operation parameters.



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

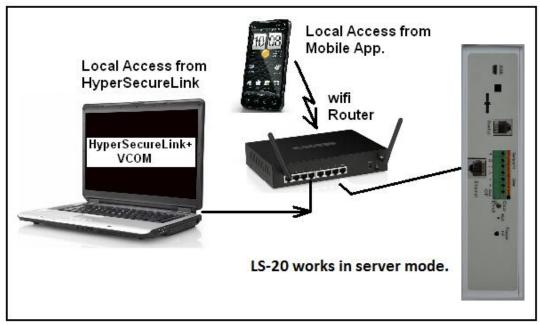
Please refer to HyperSecureLink user guide also.

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



HyperSecureLink LS-20 ¥7.02.01			
System&Link Control Monitor Check	Install CMS Sc	heduling Backup&Restore	Database Help
SSM GSM	Timer Device		
👔 🕐 😂 🗙 GSM phone No.1	Sound&Siren MISC	(23 digits/Char. max)	
GSM phone No.2	GSM GPRS		
1 ? 😂 🗙 GSM phone No.3			
👔 🕐 😂 🗙 GSM phone No.5			
GSM ID		30-minute expires	~
Image: State of the state o		SMS + Voice	×
Signal Quality (RSSI)			
		-113dB - 0	-51dB

3.2 Access LS-20 by HyperSecureLink software or Mobile App. from local network. Note: LS-20 must be set as a server.



Connecting the LS-20 to a router to be accessed by Mobile App. (MyHome) or HyperSecureLink software locally.

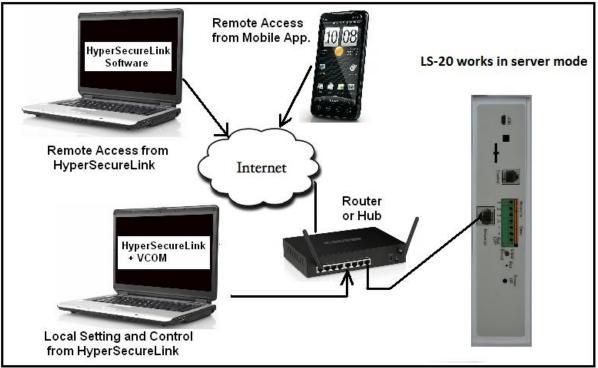
💸 ¥СОМЗ.6.2			
Main			
Exit Search by IP Con	ntigure Web		
Utilities	De	vice Info- 6 Device	(s)
E-2 VCOM	5 Device IP Address	Current Mode	TCP Port Number
💭 Device Info	192.168.2.108	Client	1681
🗿 COM Mapping	192.168.2.50	Client	1692
COM Mapping	192.168.2.112	Client	1692
	192.168.2.110	Client	1692
	192.168.2.87	Server	1687
	192.168.2.100	Server	1234

Find the LS-20 address by VCOM and set LS-20 as a server from its web page.

System&Link	Control Check Install CMS	Scheduling Backup&F	My Home
🧾 System Coni	figuration		IP Address or Domain Name
i System	a Linde		192.168.2.100
	et (Remote) 🔿 USB		Port Number 1234
			Master Password
Operation	Target 192.168.2.100	: 1234	V an
		Add	
IP:Port		Add	
	192.168.2.100:1234	Remove	
	192.168.2.83:1683		
	192.168.2.129:1692	Target	
	192.168.2.127:1692		
	192.168.2.50:1692		
	192.168.2.88:1688		

Access the LS-20 by HyperSecureLink software or Mobile App. from local.

3.3 Works with HyperSecureLink software or Mobile App. (MyHome) from Internet. Note: LS-20 must be set as a server.

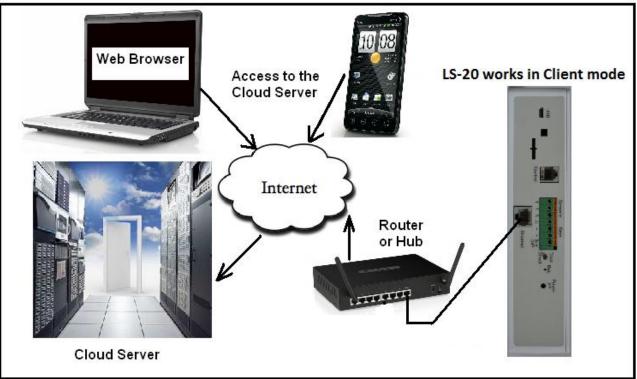


- Note: 1, To be accessed from the Internet, the Router needs a fixed IP address or a domain name. A dynamic domain name can be got from <u>www.dyndns.org</u>, <u>www.no-ip.com</u> (free) or other dynamic domain name service provider. Some router manufacturers provide free domain name service if you use their router such as DLINK. Please refer to the web site: <u>http://support.dlink.com/Emulators/dcs3415/setup_dns.html</u> for more information.
 - 2, The LS-20 has to be mapped to a TCP port that can be accessed from Internet by virtual server or port forwarding function in the router.

Sys	stem&Link	Control	Check	Install	CMS	Scheduling	Backup&F	My Home
	System Cor	ufiguratio	m					IP Address or Domain Name
	Syster		te)	<u> </u>	SB			scientech.dlinkddns.com Port Number 1234
	Operation	Target	scientecł	n.dlinkddn:	s.com	: 1234		Master Password ••••••
	IP:Port				:	Add		
		scie	ntech.dlink	ddns.com	:1234	Remov	/e	
		192	.168.2.100	:1234				
		192	.168.2.83:1	1683		Targe	t.	
		192	.168.2.129	:1692				
		192	.168.2.127	:1692				
		192	.168.2.50:1	1692				

(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.)

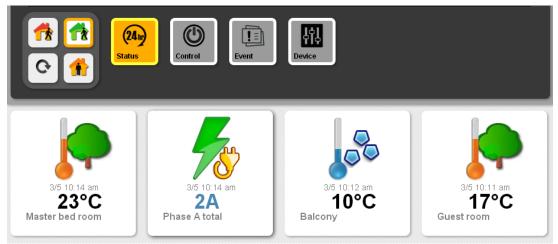




TCP Control

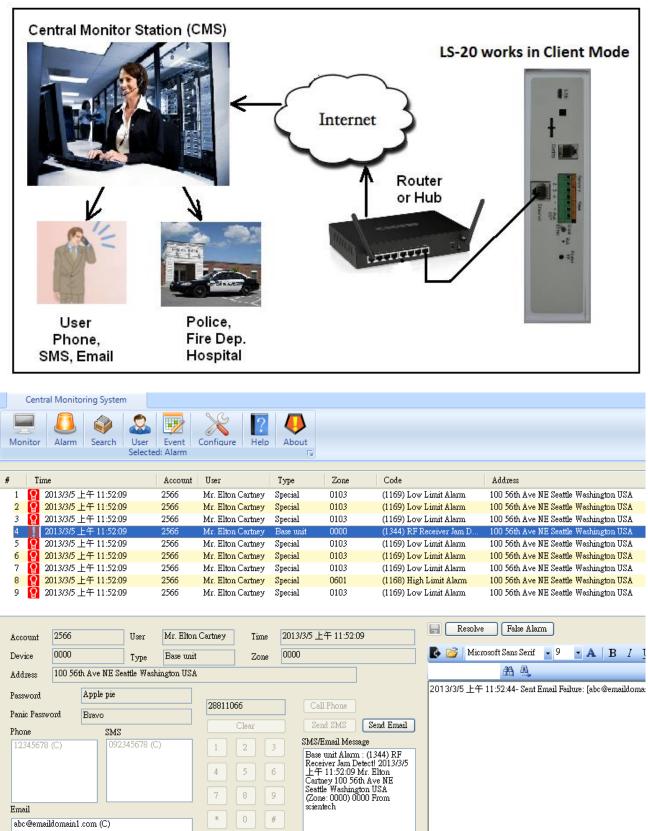
Item	Value
Telnet Server/Client	 Server Client Disable
Port Number	1692
Remote Server IP Address	gateway. livingpatternco. com
Client mode inactive timeout	20 minute (1~99,0=Disable)
Server mode protect timeout	60 minute (1~98,0=Disable,99=Can't replace)
	Update

Ex.: Assign LS-20 to the Livingpattern cloud service.



Service example from Livingpattern cloud server.

3.5 Connects to a Central Monitor Station to Get Alarm Service. Before connecting to a CMS service provider, please consult your distributer first.



Note: LS-20 must be set as a client.

CMS monitoring software example from a service provider.

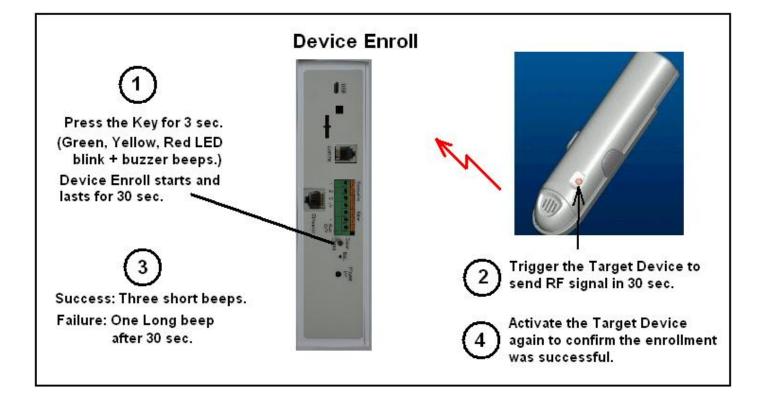
4, Installation

4.1 Device Enroll

The first step to start the operation of LS-20 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-20 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. 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.





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. (MyHome) 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.

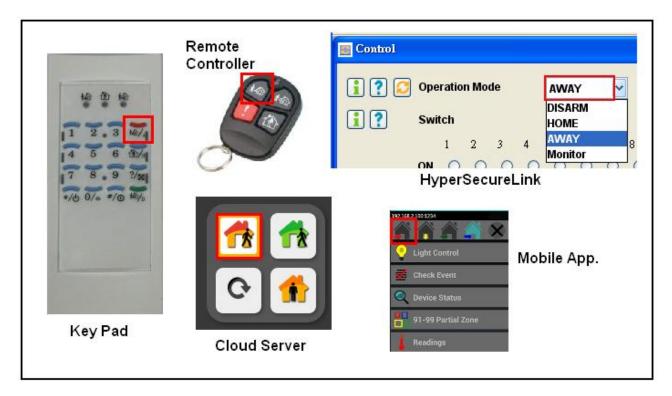
If the dB number is less than 40dB or without bar indication then you should consider to adjust the location of the sensors/Base Unit or add a RF Repeater to the system to extend the RF operation range. (Do not attach the transmitter on a metal surface, this will shrink the RF signal effective range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

5. OPERATION MODE

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

	Away Me	ode Arming Sequence	
System status:	Disarm	Exit Delay	AWAY mode active \rightarrow
System status.		↑ (0-255 seconds)Set AWAY mode	

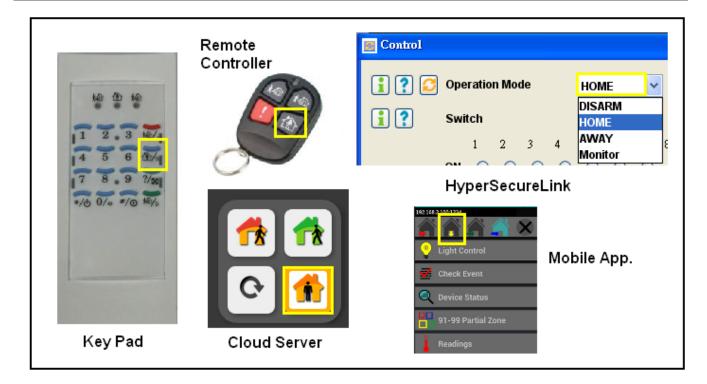
Note: When you set the LS-20 in AWAY Mode, the Base Unit clears any previous alarm and warning status on the LED and check the state of the Door Magnet sensors. If any of the sensors is still open (for example, you forgot to close the back door before you leave), the Base Unit will issue a 5 sec. long 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 set the LS-20 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 Settin	gs		
Burglar Sensor		*	
Group No. 01	(2 digits)	Get set	tings
Unit No. 01	(2 digits)	Yes	No
Bypass		0	۲
Delay Activation		۲	\circ
24-Hour Zone		0	۲
Guard In Home Mode		۲	\bigcirc
Pre-warning		0	۲
Alarm With Siren		۲	0
Bell in Disarm		۲	0
Inactivity		0	۲
Home Automation		۲	0

The Burglar sensor's "Guard in Home Mode" is enabled.

5.3 DISARM/ MONITOR Mode: The LS-20 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.

	Remote Controller	Control
1 2 3 ke/, 1 2 3 ke/, 4 5 6 金/, 7 8 9 ?/221 */(0 0/。 */の ke/)。		Operation Mode DISARM DISARM DISARM HOME WAY Monitor HyperSecureLink Uight Control Check Event Check Event Device Status 91-99 Partial Zone
Key Pad	Cloud Server	Readings

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 events 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.

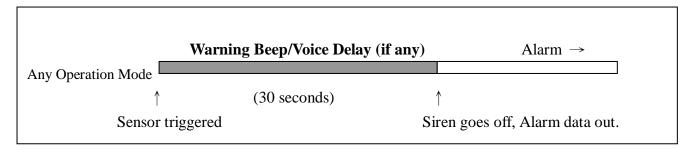
5.4 Reaction	of LS-20 to	Burglar Alarm
--------------	-------------	----------------------

	Bur	glar Alarm Response	
	AWAY Mode	Entry Delay	Burglar Alarm \rightarrow
Operation Mode	Burglar s	↑ (0-255 seconds) ensor triggered	↑ Siren goes off, Alarm data out.

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.

Burglar Se		×		
Group No.	01 (2 digits)	Get setti	ngs	
Unit No.	03 (2 digits)	Yes	No	
Bypass		0	0	
Delay Activ	ation	۲	\circ	

The siren can be stopped by disarming the system.



5.5 Reaction of LS-20 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/Voice Delay" is fixed at 30 seconds.

🖉 Device		
Enroll Device	Change Device Settings Fire Sensor Group No. (2 digits)	Get settings
Delete Device	Unit No. (2 digits)	Yes No
Wire Sensor Input	Bypass Delay Activation 24-Hour Zone	
	Guard in Home Mode Warning Beep/Voice delay Alarm With Siren	

The siren can be stopped by disarming the system.

6. SYSTEM CHECK

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

💼 Ev	ent Lo	g PM 04:04 9/24/2013							- 🗙
		i) [?	2	5 Even	ts	~		
No.	Co	Event	Zone	Туре	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		
11	1100	D 1	01.00	D.	01	00.04	15.00		

Event Log read from HyperSecureLink software

H My H				~
			Event	10-2
57 🧨	Panic	16:50	Controller	82-00
58 🗲	12/07 Trigger	16:49	Burglar	01-06
59 🧲	> 12/07 Trigger	16:48	Burglar	11-13
60 🔶	> 12/07 Trigger	16:48	Burglar	11-13
61 🗲	12/07 Trigger	16:48	Burglar	11-13
62 🗲	> 12/07 Trigger	16:46	Burglar	01-06
63	12/07 Door Clo		Burglar	01-04
64	12/07 Door Cle		Burglar	01-04

Event Log read from a mobile App.

Last 24hr Ever	36 alarms	20 warnings	
2	0 status	0 others	
	Alarm Low Limit Alarm 0602	2/26 04.46 pm 2/26 04.46 pm	Alarm Low Temp Alarm Outside Temp.
	Warning Restore Low Limit Ala 0602	2/26 04:45 pm arm	Alarm RF Receiver Jam Detect

Event Log read from a cloud server.

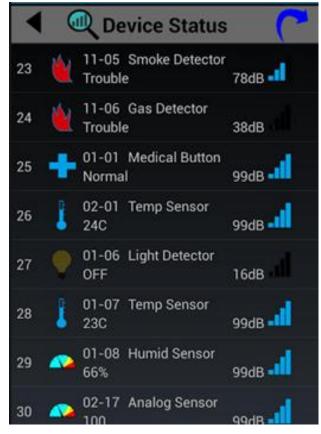
^{6.1} Event Log: The Base Unit can store 512 event records in its memory. These events can be checked from HyperSecureLink Software or Mobile App (MyHome).

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 (MyHome).

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.

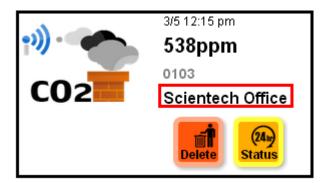
🗾 D	evice S	tatus PM 04:15	3/4/2014	ļ												- 🛛
						?	A	II			*					
No.	Zone	Sensor Type	ID	MA	DC	ES	SW	CS	DT	CD	AH	AL	SS	CH	CL	Device Name
1	01-01	Remote Controller	732407	00	00	4000	0000	c2	Of							
2	01-01	Door Magnet	500000	00	10	5614	c000	c2	2Ъ							
3	01-02	PIR Sensor	200005	02	10	4514	3000	c3	2f							
4	01-01	Temp Sensor	707177	00	10	2c10	0000	aO	2f	+21			00			
5	01-02	Analog Sensor	707177	02	10	2c10	0c00	ae	2d	+82	+120	+10	68	+80	+40	

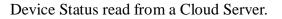
Device Status read from HyperSecureLink software



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.







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

7. HOME AUTOMATION CONTROL

- There are 16 (#1~#16) X-10 switches and 8 (#1~#8) RF switches can serve as alarm indications or home appliances control purpose.
- These switches can be controlled by Remote Controller, Keypad locally, HyperSecurelink software, mobile App (MyHome) or Cloud Server remotely.

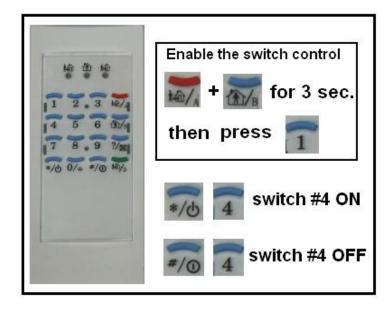
Note: Switch #16 is for Arm/ Disarm indication, please refer to 8.9, #16 SW Assignment.

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

🔤 Device												
Enroll Device	Change Device Settings											
	Controller 🗸											
	Group No. 01 (2 digits) Get settings											
	Unit No. 01 (2 digits) Yes No											
1-0	Bypass O O											
	Delay Activation O											
	24-Hour Zone 🔿 💿											
	Guard In Home Mode 💿 💿											
	Warning Beep delay 💿 💿											
	Alarm With Siren/Relay 🔿 💿											
<u> </u>	Bell in Disarm 🔿 💿											
Remote Controller	Latch key 🔿 💿											
01-01	Supervised 🔿 💿											
I, Press "Disarm" in "DISARM	'' ligh Limit Low Limit											
Mode switch #4 toggles.	ype O Controller O Alarm											
	Operation O High Limit O Low Limit											
2, Press "Panic", switch #4 tui	rns											
on for alarm indication.	witch Triggered In Alarm											
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15											
	000 <mark>0</mark> 000000000000											
	Enter Cattings they Press to Change											
	Enter Settings then Press to Change											

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

Contro	ol																	×
:?	2	Opei	ratio	n Mod	le		DISA	ARM	*	·								
i ?		Swit	ch															
		ON	1 ⊙	2 〇	3 ⊙	4	5	6 〇		8	9 O	10 〇	11 〇	12 〇	13 〇	14 〇	15 〇	
		OFF	0	۲	0	0	0	0	0	0	0	0	0	0	0	0	0	
_																		
	H	My Hom					1	_	6							(24) Status	Contro	Event
			V	Ligh	t Co	ontr	ol		r				0	1		status	Contro	
	H	ous	e Co	de		A	-	1	ж				-					
	AI	I 01	ff			5	?					с	lick to	o turn	on/ofi			
	S	wı		9)	1							<u>ر</u>			b	Living	Room
	S	W2	2	5)	1							رد			5	Kitche	n
	c	W3	2	0)	4	<mark>.</mark>			Ε.			01	1	c	off		
			·	Y					*				C			5	Bed R	oom
	S	W4	k	5)	1							OI	1	c	off		
	s	W5	5	S)	4			Ì				رط or			D	Guest	Room



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.)

Control	🜉 Device	
Operation Mode DISARM DISARM DISARM 1 2 4 5 6 7 8	G Change Device Setting	Change Device Settings Burglar Sensor Group No. 01 (2 digits) Get settings
YEAR MONTH DAY	WEEK HOUR MINUTE	Unit No. 02 (2 digits) Yes No Bypass O Delay Activation O 24-Hour Zone O
(2 digits) (2 digits		Guard In Home Mode Image: Constraint of the second secon
	In Seconds(0-120) 👻	Inactivity
🔋 🕐 Pre-warning Switch On Time	In Seconds (0-60) V In Seconds (0-60) V In Minutes (01-30) V 10	Control High Limit Control Low Limit Switch Triggered In Alarm 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
		Image: Contrast of the settings then Press to Change

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)

Change Dev	ice Setti	ngs				
Special Se	nsor		~	•		
Group No.	01	(2 digit	s) [Get sett	ings	
Unit No.	01	(2 digit	s) _	Yes	No	
Bypass				0	۲	
Delay Activa	rtion				۲	
24-Hour Zor	ie			۲		
Guard In Ho	me Mode	e.			۲	
Warning Be	ep delay	,		۲	\circ	
Alarm With				۲	0	
Bell in Disar	m				۲	
Latch key					۲	
Home Autor	nation _				0	
Alarm High I				n Low Lin	nit 10	
Control	۲	High Lim	it	OLow	Limit	
Control High	Limit 2	8	Cont	rol Low Li	imit 26	
Switch On V						
123			9		12 13 14	
$\circ \circ \circ$	00	$\circ \circ$	0 0	$\circ \circ \circ$	$\circ \circ \circ$	0
Contra Contra		D	<u></u>			
Enter Setti	ngs then	i Press to	Char	ige		

7.6 Automatically switch control scheduled by HyperSecureLink software.

💼 Auto Sv								
			Daily	*				
Item	Switch No		Action		o'clock		minute	
, nem	SWICHNO							
1	1	×	On	~	19	×	00	1
2	1	~	Off	~	07	~	05	1
3	2	~	On	~	07	~	15	1
4	2	~	Off	~	09	~	00	1
5	1	~	No Action	~	00	~	00	1
5	1	~	No Action	~	00	~	00	1
7	1	~	No Action	~	00	~	00	1
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.

Siren Test

(HyperSecureLink)



(Livingpattern Cloud Service)

* Clear Status: To Clean the alarm/ warning LED and stop the alarm/ warning reaction.

•••••						
	r 1.	ACC .	Sta	1.1.1		:
	ч.н.	- C	310	πu	•	

0



(MyHome App.)

(HyperSecureLink) (Livingpattern Cloud Service)

* 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.

Device Test

* External Alarm Siren: On: turn on the wire siren circuit on the rear panel.

Off: turn off the wire siren circuit on the rear panel.

	External Alarm Siren Control	ON OFF
* Control C	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.)

System User					
System Login Password Update	System Login Password Update				
1 System User Name	System User Name				
Password ••••					
1 Password	••••				
Password (8 digits max.)	••••				
	•••• submit				



8.2 Settings for Timers

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

👔 🕐 😂 Entry Delay in Seconds (0-255)

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.

10

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

	AWAY Mode	Entry Delay	Burglar Alarm \rightarrow
System status:			
	\uparrow	(0-255 seconds)	\uparrow
	Burglar sens	or triggered	Siren goes off, alarm reporting

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

Change Device Settings			
sor	*		
01 (2 digits)	Get setti	ngs	
03 (2 digits)	Yes	No	
	0	۲	
ion	۲	\odot	
)	0	۲	
Guard In Home Mode		\bigcirc	
	0	۲	
Alarm With Siren/Relay		0	
n	۲	0	
	0	۲	
	۲	0	
	sor 01 (2 digits) 03 (2 digits) ion ion ie Mode iren/Relay	sor 01 (2 digits) 03 (2 digits) Yes ion e Mode iren/Relay O	

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

🔋 ? 😂 Exit Delay In Seconds (0-255)

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.

10

Disarm	Exit Delay	AWAY ARM effective \rightarrow
G		
		Disarm Exit Delay ↑ (0-255 seconds) Set AWAY mode

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

hange Devi:	ce Setting	s		
Controller			*	
iroup No.	01	(2 digits)	Get sett	ings
Init No.	01	(2 digits)	Yes	No
lypass			\circ	۲
)elay Activa	tion		۲	0
4-Hour Zon	e		0	۲
Guard In Home Mode				
Varning Be	ep delay			۲
larm With S	Siren/Relay	/	0	۲
Bell in Disarm			۲	
atch key			0	۲
upervised				۲

* Inner Siren Time: 0-255 seconds (default = 60 sec.)

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

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

1	? 🖸	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)



The LS-20 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-20 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.)

🚺 김 乞 Remote Siren Time

In Seconds (0-60) 🔻 🕫

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.)

1 Pre-warning Switch On Time In Minutes (01-30) 💙 2

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

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

```
10 C Home Automation Switch On Time In Minutes (01-30)
```

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

Change Device Settings				
Burglar Sensor		*		
Group No. 01	(2 digits)	Get setti	ngs	
Unit No. 01	(2 digits)	Yes	No	
Bypass		0	۲	
Delay Activation		۲	\bigcirc	
24-Hour Zone		\bigcirc	\odot	
Guard In Home Mode		۲	0	
Pre-warning		۲	0	
Alarm With Siren		۲	0	
Bell in Disarm		۲	0	
Inactivity		0	\odot	
Home Automation		۲	0	
Alarm High Limit	Ala	rm Low Lim	it	
Control O H	igh Limit	⊖ Low I	.imit	
Control High Limit Control Low Limit				
Switch On When Trigg	jered			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Enter Settings then P	Press to Ch	ange		

(Please refer to 8.4 "Device Status Settings".)

8.3 Setting for Sound & Siren

* **Record /Playback Voice:** After an alarm call connects successfully, the LS-30 will play the prerecorded voice message that corresponds to the alarm type.

👔 🕐 😂 Record Voice			
Segment	Common Segment 🕑		
	Common Segment		
	Panic Segment		
	Burglar Segment		
	Fire Segment		
	Medical Segment		
	Special Segment		
	Latchkey Disarm		
	Latchkey Away		
1 ? 🖸 Voice PlayBack			
Segment	Common Segment 🗸		

The messages should be recorded in their specified segments.

Common Segment (13 seconds): The voice to be played during all alarm types. This segment should contain your name, address and telephone number.

Ex: "This is ---, I live at---, phone number is---."

Panic Segment (4 seconds): The voice to be played during a Panic alarm.

Ex: "Break-in! Break-in! Calling for emergency help."

Burglar Segment (4 seconds): The voice to be played during a Burglar alarm.

Ex: "Burglar! Burglar! Calling for emergency help."

Fire Segment (4 seconds): The voice to be played during a Fire alarm.

Ex: "Fire! Fire! Calling for emergency help."

Medical Segment (4 seconds): The voice to be played during a Medical alarm.

Ex: "Heart patient! Calling for emergency help."

Special Segment (4 seconds): The voice to be played during a Special alarm.

Ex: "High temperature in the building! Calling for an alert."

- Latchkey Disarm (4 seconds): The voice to be played when a latchkey user disarms the system. Ex: "I'm home."
- Latchkey Away (4 seconds): The voice to be played when a latchkey user sets the system in AWAY mode. Ex: "I'm out."

*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".

i ?] 🕻	Door Bell
-----	-----	-----------

💿 On 🔘 Off

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

Change Dev	/ice Settir	ngs		
Burglar Se	nsor		*	
Group No.	01	(2 digits)	Get setti	ngs
Unit No.	01	(2 digits)	Yes	No
Bypass			0	۲
Delay Activa	ation		۲	0
24-Hour Zoi	ne		\bigcirc	۲
Guard in Home Mode			۲	\bigcirc
Pre-warnin	g	0	\odot	
Alarm With	Siren		۲	\bigcirc
Bell in Disa	rm		۲	\bigcirc
Inactivity			0	۲
Home Auto	mation		0	۲

*Tamper Siren In Disarm: (default = Off)

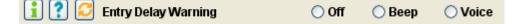


Some of the sensors (Door Magnet, PIR, Keypad) have a Tamper sensor inside, if it was detached from the wall or the case was opened then the sensor would issue a "Tamper" signal to the Base Unit.

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 Warning: Beep/Voice/Off (default, OFF)

(Please refer to 8.2 "Entry Delay")



- **Beep :** The Base Unit will generate beeps during the Entry Delay interval and the beeping speed will get faster until the end of the delay time.
- **Voice :** The Base Unit will generate the voice of "Away Mode" during the Entry Delay interval until the end of the delay time.
- **OFF:** No beeps during the Entry Delay interval.

Change Device Settings						
Burglar Se	nsor		*			
Group No.	01	(2 digits)		Get setti	ngs	
Unit No.	01	(2 digits)		Yes	No	
Bypass				0	۲	
Delay Activ	ation			۲	\odot	

* Inner Siren: ON/OFF (default, ON)

1 Inner Siren 💿 On 🔿 Off

Inner Siren On: Enable the Inner Siren.

Inner Siren Off: Switch off the Inner Siren. (The Siren keeps silent in alarm and warning states.)

The conditions for the Inner Siren to go off when alarm trips:						
1. The Inner Siren is enabled.						
2. The Alarm With Siren attribute of the sensor is "Yes".						
	Change Device Settings					
	Burglar Sensor 👻					
	Group No. (2 digits) Get settings					
	Unit No. (2 digits) Yes No					
	Bypass 🔿 📀					
	Delay Activation 💿 🔿					
	24-Hour Zone 🔿 💿					
	Guard In Home Mode 💿 🔿					
	Pre-warning 📀 💿					
	Alarm With Siren 💿 🔿					
	Bell in Disarm 🔿 💿					
	Inactivity 🔿 💿					
	Home Automation 🛛 💿					
3. The Inner Siren Time (8.2) has been set.						
Inner siren Time In Seconds (0-255)60						

* Mode Change Chirp: ON/OFF (default, OFF)



Mode Change Chirp On: The Sirens sound short chirps (Disregard the Inner Siren status) when the operation mode changes by Remote Controller or Wireless Keypad.

(Disarm: 1 chirp, Away: 2 chirps, Door Open warning: 5 chirps).

Mode Change Chirp Off: The Sirens will keep silent when the operation mode changes.

Change Device Settings Burglar Sensor Change Device Settings 01 (2 digits) ~ Group No. Unit No. 01 (2 digits) (2 digits) Get settings (2 digits) Bypass Yes No Delay Activation

31

Change Device Settings Fire Sensor v 01 Group No. (2 digits) Get Unit No. 01 (2 digits) Bypass **Delay Activation** 24-Hour Zone **Guard In Home Mode** Warning Beep delay Alarm With Siren Bell in Disarm Latch key Home Automation

ettings No ۲ 6 0 C Home Automation

Get settings

No

۲

0

۲

0

۲

0

0

۲

Yes

0

 \bigcirc

***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.

l?||C 10 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) 10

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

01

01

Controller

Group No.

Unit No.

Bypass

Delay Activation

Guard In Home Mode

Warning Beep delay

Alarm With Siren

Bell in Disarm

24-Hour Zone

 • •<	\odot \bigcirc \odot \bigcirc \bigcirc	24-Hour Zone Guard In Hon Pre-warning Alarm With S Bell in Disarn	ne Mode Siren		0 0 0 0 0 0 0
	ŏ	Inactivity Home Autom	ation		
		Change Dev	∕ice Settii	ngs	
		Medical Bu	rtton		*
t setti	ings	Group No.	01	(2 digits)	Get se
Yes	No	Unit No.	01	(2 digits)	Yes
Yes	No	Unit No. Bypass	01	(2 digits)	Yes
Yes O				(2 digits)	
0	 	Bypass	ation	(2 digits)	0
○○○	 • • • • • 	Bypass Delay Activ	ation		0
○○○○○	 • • • • • 	Bypass Delay Activ 24-Hour Zo	ation ne me Mode		0 () ()
○ ○ ○ ○ ○	0 0 0 0	Bypass Delay Activ 24-Hour Zo Guard In Ho	ation ne me Mode eep delay		0 () () ()
○○○○○	00000	Bypass Delay Activ 24-Hour Zo Guard In Ho Warning Bo Alarm With Bell in Disa	ation ne ome Mode sep delay Siren		 ○ ○
○ ○ ○ ○ ○	0 0 0 0	Bypass Delay Activ 24-Hour Zo Guard In Ho Warning Be Alarm With	ation ne me Mode eep delay Siren rm		

*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 = 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.

1 Pre-warning Switch On Time In Minutes (01-30) 💙 2

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

Warning Beep/Voice 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/Voice 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= Yes, only No 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 = No)**: (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.

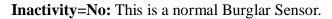
Note: The "Door Bell" must also be turned on.

*Inactivity (default = No): (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 Function	 Enable 	🔘 Disable
Time (Hours)	12 💙	



*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:

Change Devi	ice Setti	ngs				
Special Sen	isor		*			
Group No.	01	(2 digit	is)	Get sett	ings	
Unit No.	01	(2 digit	s)	Yes	No	
Bypass				0	۲	
Delay Activa	tion				۲	
24-Hour Zon	е			۲		
Guard In Hor	ne Mode	3			۲	
Warning Bee	ep delay	,		۲	\circ	
Alarm With 9	Siren			۲	0	
Bell in Disarı	m				۲	
Latch key					۲	
Home Auton	nation			0	۲	
Alarm High L	.imit 3	5	Alarn	n Low Lin	nit 10	
Control	۲	High Lim	it	🔿 Low	Limit	
Control High	Limit 2	8	Contr	ol Low Li	mit 26	
Switch On When Triggered						
1 2 3	4 5	678	3 9	10 11	12 13	14 15
000000000000000000000000000000000000000						
Enter Settings then Press to Change						

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					
Туре	Burglar 🔽	Re	ad		
	Panic				
	Burglar				
Enable Status :	Fire	Yes	No		
Bypass	Medical	0	0		
Delay Activatio	Tamper	0	•		
24 Hour Zone	Controller	•	0		
Guard In Home	Mode	õ	$\tilde{\odot}$		
Guara in Home	moue	ŏ	č		
Alarm With Sir	en	0	0		
Bell in Disarm	ch .	ŏ	õ		
Dell III Disai III		<u> </u>	× i		
Trigger / Away					
Open(High)) O CI	ose(Low)			
Current Status					
current status					
			iet		

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
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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 8.9, #16 SW Assignment.)

👔 🌠 😂 # 16 SW Assignment 💿 Arm=On 🔿 Disarm=On

X-10 Switch

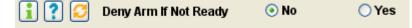
As many as 15 X-10 switches and 8 RF smart sockets can be controlled by each system. For settings of the X-10 switches, refer to the instructions of the X-10 device manual. Only switch 1 to switch 8 can be assigned as RF switches.

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 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.

:?	RF Jamming Warning	🔘 Enable	📀 Disable
----	--------------------	----------	-----------

*Reset To Factory Default:

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

Reset 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.)
- 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.



* X-10 House Code <A-P>: (default <A>)

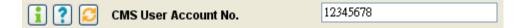
This code should be the same as the House Code set on the X-10 switches, user can select from A to P.

8.9 CMS Settings: LS-20 can report to two CMS phone numbers and TCP/IP CMS/Server.

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

* CMS User Account Number:

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



* Mode Change Report: Enable /Disable (default=Disable, for phone number CMS only.) Mode Change Report Enable: The LS-20 will report to the CMS phone number if the operation mode

(Away/Home/Disarm) has been changed.

* Auto Link Check Period: Disable to 30 days. (default = Disable, for phone number CMS only.) The LS-20 will send a Loop Check signal to the CMS phone number periodically.

* 2 Way Audio: Enable/Disable (default=Disable, for phone number CMS only.)

2 Way Audio ON: The Base Unit will enter into 2-way voice communication mode after sending the alarm report to the CMS.

(This function only works with a digital receiver using Contact ID and has 2-way voice capability.)

* CMS Report: (default, Report One)

Report All: Report to CMS1, CMS2 and Internet service centers. Report One: Stop further CMS report if any one of the above reports is successful.

* TCP/IP Alarm Report (default=no)

👔 🕐 🧭 TCP/IP Alarm Report	🔿 Yes	💿 No
---------------------------	-------	------

TCP/IP Alarm Report = Yes: 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.**

***TCP/IP Report Format**



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-20 to the server, most of the service providers will set this parameter automatically.

8.10 Scheduling.

*Auto Switch: In every weekday user can program the On/Off time for each switches, total 20 items can be assigned. (Please refer to 7.6)

🧾 Auto Swit	tch					
			Daily	*		
Item	Switch No		Action		o'clock	minute
1	1	~	No Action	~	00 🗸	00 💌
2	1	~	No Action		00 🗸	00 💌
3	1	×	On		00 🗸	00 💌
4	1	~	Off		00 🗸	00 × 00 × 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 🔽
9	1	~	No Action	×	00 🔽	00 💌
10	1	~	No Action	*	00 🔽	00 × 00 ×
11	1	~	No Action	~	00 🔽	00 💌
12	1	~	No Action	~	00 🔽	00 💌
13	1	~	No Action	~	00 🔽	00 💌
14	1	~	No Action	~	00 🔽	00 💌
15	1	~	No Action	*	00 🔽	00 V 00 V
16	1	~	No Action	*	00 🔽	
17	1	~	No Action	*	00 🔽	00 💌
18	1	~	No Action	*	00 🔽	00 🔽
19	1	~	No Action	*	00 🔽	00 💌
20	1	~	No Action	~	00 🗸	00 💌

*Auto Operation: In every weekday user can program the Arm/Disarm time for the system, total 20 items can be assigned.

🧱 Auto Ope	ration	8					
			Daily 💌				
Item	Zone No.		Operation	o clock		minute	[
1	Main	~	No Action	00	×	00	×
2	Main	~	No Action	00	×	00	~
3	Main	*	Disam	00	×	00	~
4	Main	*	Home	00	*	00	~
5	Main	~	Away	00	*	00	> > >
6	Main	*	Monitor	00	*	00	~
7	Main	~	No Action	00	*	00	~
8	Main	~	No Action	00	*	00	~
9	Main	*	No Action	00	*	00	~
10	Main	*	No Action	00	*	00	~
11	Main	*	No Action	00	*	00	> > >
12	Main	~	No Action	00	*	00	~
13	Main	~	No Action	00	×	00	~
14	Main	~	No Action	00	×	00	~
15	Main	~	No Action	00	×	00	×
16	Main	~	No Action	00	~	00	~
17	Main	~	No Action	00	~	00	~
18	Main	*	No Action	00	*	00	> >
19	Main	~	No Action	00	~	00	~
20	Main	~	No Action	00	*	00	~

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

📕 НуретSесш	eLi	nk V	3.0												
System&Link	Co	ntro	I C	heck	t Ir	nstal	I C	MS	Sc	hedu	ıling	Ba	icku	p&F	Restor
Switch Scene Auto Switch															
											Ope			_	
Switch	1	2	3	4	5	6	7	8			ch S				15
Scene1	۲	0	0	\bigcirc	0	\bigcirc	0	0	0		atio O		O	0	0
Scene2	۲	۲	0	\bigcirc	0	\bigcirc	0	0	0	0	0	0	\bigcirc	0	\bigcirc
Scene3	۲	۲	۲	\bigcirc	0	\bigcirc	0	0	0	0	0	0	0	0	\circ
Scene4	۲	۲	۲	۲	0	\bigcirc	0	0	0	0	\bigcirc	0	\bigcirc	0	\bigcirc
Scene5	۲	۲	۲	۲	۲	\bigcirc	0	\bigcirc	\bigcirc	0	\bigcirc	0	\bigcirc	0	\bigcirc
Scene6	۲	۲	۲	۲	۲	۲	0	0	0	0	\bigcirc	0	\bigcirc	0	\bigcirc
Scene7	۲	۲	۲	۲	۲	۲	۲	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc
Scene8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\circ
				;	٦		2	٦		3	1				
			_			_			_						

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

System&L	ink Con	trol	Ch	eck	Ins	tall	СМ	S	Sch	eduling
🗾 Operat	tion Scene	•								- 🗙
Group N	o. Main	91	92	93	94	95	96	97	98	99
Scene1	۲	۲	۲	۲	0	0	0	0	0	0
Scene2	. 0	۲	۲	۲	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc	0
Scene3	0	\bigcirc	۲	۲	0	\bigcirc	\bigcirc	0	\bigcirc	0
Scene4	0	\bigcirc	\bigcirc	۲	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc	0
Scene5	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc	0
Scene6	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc	0
Scene7	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc	0
Scene8	0	0	0	0	0	0	0	0	0	0
				?			3)		

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

SPECIFICATIONS

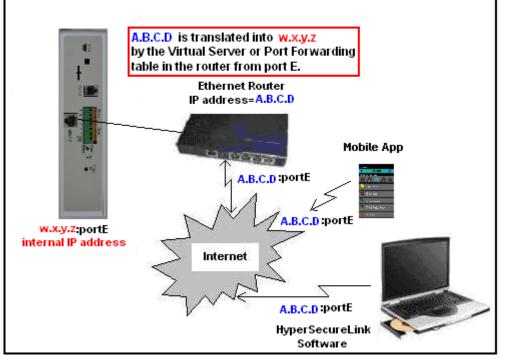
Input Power: 7V DC or Micro USB input. Standby Current: About 280mA (LS-20E), 320mA (LS-20EG) RF: (Follows local regulations, other frequencies as requested) Receiving Frequency: 915MHz (For FCC), 868MHz (For CE), 433MHz. Transmission Frequency: 433MHz Data Modulation: OOK (On Off Key). Power: less than 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, wifi (Option), GSM (Option), GPRS (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) Power: NiMH rechargeable battery, back-up time 6~16 hours depends on battery capacity. Delay Activation Time: 0- 255 seconds programmable. Digital Interfaces : micro USB socket. Internet Interface: RJ45, wifi (Option), GPRS (Option). Automation Switch control: RJ11 6-pin Control of 16 units X-10 switches or (XRM-01) Relay Modules. Wireless Socket: SW#1~SW#8. Internal siren for Alarm warning. Internet CMS protocol: Proprietary Scientech Protocol (ST-I, ST-II), CSV and SIA ADM-CID (2007) IP Alarm protocol. Wire Sensor Input: x3 can be assigned as Panic, Burglar, Fire, Medical, Tamper or Controller. Alarm Out: Open collector transistor output with 10 Ohm protection resistor, for 5V external siren or other alarm device, 300mA max. Clock Accuracy: within 5 seconds daily. Operation Temp.: -10° C $\sim 40^{\circ}$ C. Storage Temp.: -20° C $\sim 55^{\circ}$ C. Humidity: 10-95%RH. Size: 203x120x48 mm. (Main body) Weight: about 550 g. (Main body)

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

Appendix A: Ethernet Interface Settings

Ethernet Interface can be configured as a server to be accessed remotely by the proprietary HyperSecureLink software or mobile App MyHome. It also can be configured as a client to send poll/alarm signal to a web server or CMS (Central Monitoring Station) service provider.

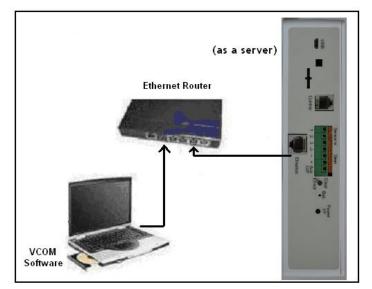
A1, System connection diagram for LS-20 as a server to be accessed by the HyperSecureLink Software or mobile App MyHome from Internet.



Note: Mobile App MyHome is from third parties and are not free, please refer to the web sites: <u>https://play.google.com/store/apps/details?id=com.uioo.uioomyhome</u> <u>https://itunes.apple.com/app/id946734736</u>

A1.1, Ethernet Interface sets up as a server.

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



A1.2, Configure the 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 setup menu 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.

Ex: The internal IP address of **192.168.0.90** and port number **1690** is assigned in the Virtual Server table.

(This IP address and port number will be used to communicate with the LS-20 by HyperSecureLink program or mobile Apps.)

	Home	Advanced	Tools	Status	Help
	Virtual Serve /irtual Server is us	r sed to allow internet us:	ers access to LAN :	services.	
	ID	6			
rver	Enable	🗖 Enable			
	Service Ports		Well known	services: 🗔 select	one 💌
	Service IP	192.168.0.			
	Schedule	C Always			
		100 mm m	0 ▼ :00 ▼ To 00	▼ :00 ▼	
		1.1	n 💌 to Sun 💌		
				C	0 0
		/	/	Apply (Cancel Help
	Service Ports	s Server IP	Schedule	Apply	ancer neu
	4662	134	always		📝 🗎
	1690	90	always		📝 间
	6891-6900	20	always		1
	8088	20	always		📝 🗎
	80	100	always		🕞 🛅

A1.3, Configure the Ethernet Adaptor

* RUN the VCOM program on your PC.

Click the Search

🕏 УСОМЗ.6				
Main				
Exit Search by IP	ntigure Web			
Utilities		Device Info- 0 Dev	ice(s)	
	No	Device ID	Device Name	Project Na
Device Info				
- contrapping				
	<			>

* The **VCOM** software searches in the network for the LS-20 Ethernet Interface and shows the findings on the screen.

Sea	rching			
) for Devices e vice(s); Pleas e	e wait a few seconds	. Stop
	No	Device Name	MAC Address	IP Address
	1	LifeSOS	00-00-A0-00-00-1A	192.168.2.87

🔅 YCOM3.6									
<u>M</u> ain									
Exit Search by If	rch	Web							
Utilities				De	vice	Info- 1 Devi	ce(s)		
E-2 VCOM	No	Device ID	Device Name	Project Name	MAC	ddress	Search IP Address	Device IP Address	Current Mode
🔘 Device Info	1	0001	LifeSOS	NetUART	00-0	0-A0-00-00-1A	192.168.2.87	192.168.2.87	Server
🔤 COM Mappini									
I 1									

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

🌔 http://192.168.2.87/ - Windows Internet Explorer	
🚱 🗸 🖉 http://192.168.2.87/	v (+) ×
Q - Search ϕ (45)	Facebook 🕶 💽 🌖 Listen to music 💿 🖲 Amazon 🔡 YouTube 💌 Weather 💌 🚥
😭 🛠 🌈 http://192.168.2.87/	
	USER LOG IN
	Site: 192.168.2.87
	ID: admin admin
	Password:
	OK

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

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

🚖 🛠 🌈 http://192.168.2.87/		🟠 • 🗟 🕤 🖶 • 🔂
Administrator Setting TCP Mode UDP Mode UART Reset Device	Kernel Version MAC Address Nickname IP Setting	V1.43.11 2011/12/13 00:00:A0:00:00:1 A LifeSOS
	IP Address	192. 168.2. 90
	Subnet Mask	255 255 255 0
	Gateway	192 168 2 1
	DNS	139 175 55 244
	IP Configure	⊙ Static ○ DHCP
	Password Setting	
	Username	admin max:15
	Password Confirm	••••• max:15
	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.

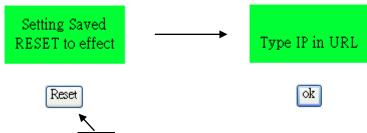
DNS: Please get this address information from your ISP.

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 Ethernet Adaptor setup web page again.

45

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

* Select <u>**TCP Mode**</u> and change the settings according to your network environment:

Administrator Setting TCP Mode UDP Mode UART Reset Device

CP Control	
Item	Value
Telnet Server/Client	⊙ Server ○ Client ○ Disable
Port Number	1690
Remote Server IP Address	0
Client mode inactive timeout	20 minute (1~99,0=Disable)
Server mode protect timeout	60 minute (1~98,0=Disable,99=Can't replac
I	Update

Telnet Server/Client: Select Server.

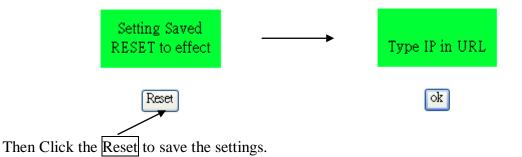
Port Number: As the setting of the Virtual Server in the Ethernet Router.

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.



nta tha r

* Select <u>UART</u> to check if the settings are the same as below.

Administrator Setting
TCP Mode
UDP Mode
UART
Reset Device

UART Control

Item	Setting
Mode	R\$232
Baudrate	9600 🗸
Character Bits	8 🗸
Parity Type	none 🗸
Stop Bit	1 💌
Hardware Flow Control	none 🗸
	□ Character 1: ⁰⁰ , □ Character 2: ^{FF}
Delimiter	□ Silent time: ⁵ (1~255)*200ms
	Drop Character
	Update

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.



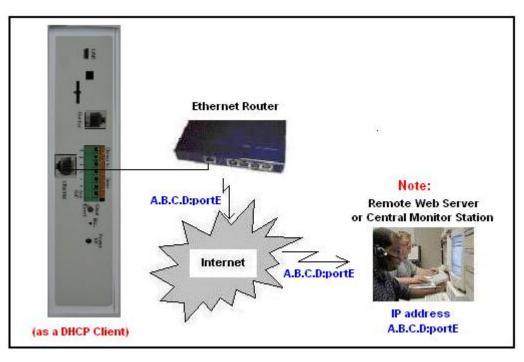
Then Click the Reset to save the settings.

The setting is completed here.

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

A2, System connection diagram for LS-20 as a client to send signal to a cloud server or Central Monitoring Station through Internet.

(This setting is only valid for the user who has CMS or cloud services. User has to know the IP address and port number of the CMS or cloud server before setting the Adaptor.)



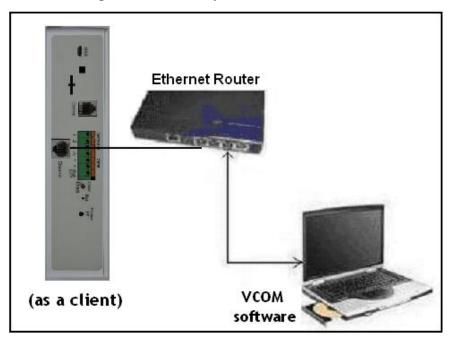
Note: For the cloud services or Central Monitor Station please refer to web sites:

Cloud Services: www.livingpattern.co or www.abell-security.com

Central Monitor Station: <u>www.iklomp.com</u>

A2.1, Ethernet Adaptor sets up as a client.

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



A2.2, Configure the Ethernet Adaptor

* RUN the VCOM program on your PC, check "Device Info".

Click the Search

/	/			
🕏 УСОМЗ.6				
Main				
Exit Search by IP	figure Web			
Utilities		Device Info-	0 Device(s)	
	No	Device ID	Device Name	Project Na
COM Mapping				
	<			>

* The **VCOM** software searches in the network for the LS-20 Ethernet Interface and shows the findings on the screen.

Searcl	hing								
_									
	Searching fo Find 1 Devi		e wait a fe	w seconds	Sto				
	No	Device Name	MAC Addre	ess	IP Address				
	1	LifeSOS	00-00-A0-	D0-00-1A	192.168.2.87				
₩ 1 00	W3.6								
1									ال
Main		Search _{ay IP} Configure	Web						
U	Jtilities				De	evice Info- 1 Devi	ice(s)		
🖃 🛃 V		No	Device ID	Device Name	Project Name	MAC Address	Search IP Address	Device IP Address	Current Mode
	Device Info COM Mapp		0001	LifeSOS	NetUART	00-00-A V 00-00-1A	192.168.2.87	192.168.2.87	Server

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

🖉 http://192.168.2.0	87/ - Windows Internet Explore	Ľ		
🔆 🔁 🗸 🖉 htt	p://192.168.2.87/			✓ 4 ×
Q -	Search 🔶	🍻 🚹 Facebook 🗸 💽 🗿 Lis	ten to music 💿 遵 Amazon	🔛 YouTube 🚬 Weather 👻 🚥
🚖 🏟 🌈 http://1	92.168.2.87/			👌 · 🔊
		USER LOG IN		
		ID: ada	_ _	
		Password:		admin
			OK	

* Enter User Name and Password.

Administrator Setting

TCP Mode UDP Mode UART Reset Device

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

* The setup menu of <u>Administrator Setting</u> will be shown on the screen and change the "IP Configure" to "DHCP".

Confirm	••••
Password	••••• max:15
Username	admin max:1
Password Setting	
IP Configure	⊖ Static ⊙ DHCP
DNS	139 175 55 244
Gateway	192_168_2_1
Subnet Mask	255 255 255 0
IP Address	192 168 2 87
IP Setting	
Nickname	LifeSOS
MAC Address	00:0E:E3:00:10:07
Kernel Version	V1.43.12 2012/03/22

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 accessable 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 Ethernet Interface setup web page again. * Select <u>TCP Mode</u> and change the settings according to the information from the web server or CMS service provider.

Administrator Setting <u>TCP Mode</u> <u>UDP Mode</u> <u>UAPT</u>	TCP Control	
UART Reset Device		
	Item	Value
	Telnet Server/Client	\bigcirc Server \odot Client \bigcirc Disable
	Port Number	2000
	Remote Server IP Address	210.68.28.137
	Client mode inactive timeout	20 minute (1~99,0=Disable)
	Server mode protect timeout	60 minute (1~98,0=Disable,99=Can't replace)
		Update Tel

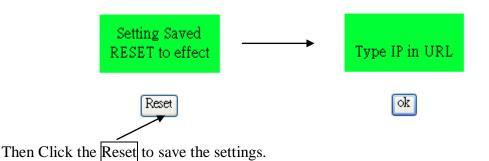
Server/Client: Select Client.

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.



* Select <u>UART</u> to check if the settings are the same as below.

Administrator Setting
TCP Mode
UDP Mode
UART
Reset Device

TIADT	Control
LIAKI	(On Troi
Unit	CONLUVI

Item	Setting
Mode	R\$232
Baudrate	9600 🗸
Character Bits	8 🕶
Parity Type	none 🗸
Stop Bit	1 🗸
Hardware Flow Control	none 🗸
	□ Character 1: ⁰⁰ , □ Character 2:FF
Delimiter	□ Silent time: ⁵ (1~255)*200ms
	Drop Character
	Update

Mode: RS-232.

Baudrate: 9600.

Character Bits: 8.

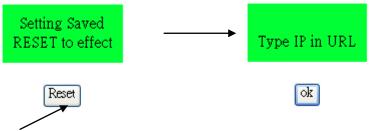
Parity Type: None

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 B: Wifi Interface Settings

Location of the LS-20

Since the wifi Interface needs to communicate with your wifi router, please locate the LS-20 near your wifi router to keep good signal quality.

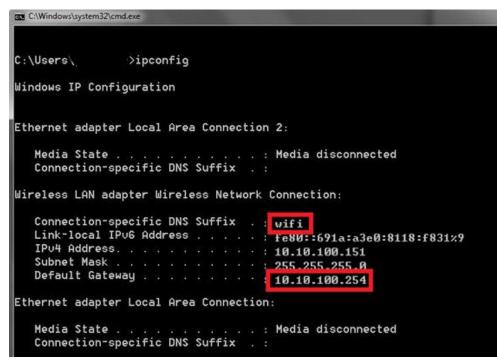
B1, Search all the wifi networks in your environment from PC, tablet or mobile phone. You will find a network SSID as "lifesosxxxxx".

Connect to this wifi network by the Password of "12345678".

Note: wifi Interface only can be connected to one browser, if you can see the SSID but can't connect to it then check if it has been connected to other device.

Mobile@Work	-
Secured with WPA/WPA2 PSK	
lifesos10001	-
Secured with WPA/WPA2 PSK	(L)
Public@Work	20
Secured with WEP	10
AnchorFree	
dd-wrt	
WLAN@Work	a
Secured with 802.1x EAP	
3254 0223	20
Secured with WEP	
BGC_AV_465	8
Secured with WEP	

B2, You can run the command prompt "cmd.exe" on your PC and enter "ipconfig" to find the Gateway address of the wifi Interface is "10.10.100.254".

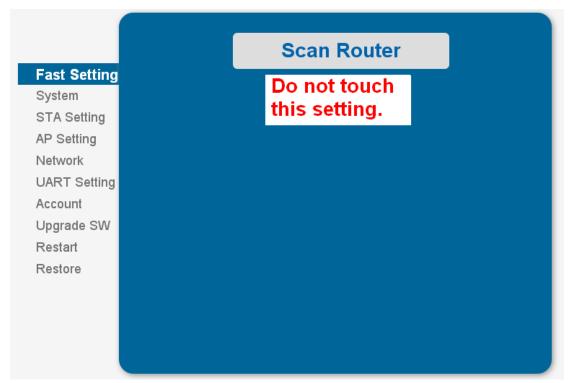


- B3, Open the browser and enter <u>http://10.10.100.254</u>
 - Use **admin/admin** to enter the wifi Adaptor setting web page.

Blank Page - Windows Internet Explorer		
() () () () () () () () () () () () () (🖌 🗲 🔀 🖉 Live Search	[•]
File Edit View Favorites Tools Help		
🚖 Favorites 🛛 🚕		
🖉 Blank Page	🚵 - 🖸 🖶 - Page - Safety -	Tools + 🔞 + 💙
		~
Connect to 1 HF-A11 User name: Password:	0. 10. 100. 254	

Note: If you change any setting below, only "Restart" the wifi Adaptor after all the changes of the setting had been saved.

B4, Skip this Setting.



	MID	USR-WIFI232-G2	
Fast Setting	Software Version	V1.0.05	
System	Small Version	V1.1	
STA Setting	WiFi Work Mode	APSTA	
AP Setting	AP mode		
Vetwork	SSID	lifesos10001	
	IP Address	10.10.100.254	
JART Setting	MAC Address	ACCF233CB889	
Account	STA Mode		
Jpgrade SW	Router SSID	shih2	
Restart	Signal Strength	78%	
Restore	IP Address	192.168.0.101	
(estore	MAC Address	ACCF233CB888	

B5, Click "System" to show the settings in the wifi Adaptor.

B6, Click "STA Setting", it should be like the screenshot below, otherwise change the settings then click "Scan".

AP+STA ▼
Scan
WPA2PSK • The parameters
AES v of your wifi
Show passwords
Enable v
192.168.0.108
255.255.255.0
192.168.0.1
192.168.0.1

Select your router and enter the parameters needed for the wifi Adaptor to connect to your router then click "Save".

st Setting	Site Survey	BSSID	RSSI	Channel
em	hinet-1	C8:6C:87:28:11:C	0	1
Setting	ASUS	60:A4:4C:45:13:68	18	1
atting	scientech2	34:8:4:C0:53:F0	84	6
ting	lifesos10002	AC:CF:23:3C:AB:F5	70	6
·k	Antaira	0:19:70:86:8C:F5	45	6
L	scientech2_2EX	74:DA:38:9:3D:CB	64	6
Setting	HP-Print-d3-Color LaserJet MFP	2C:33:7A:E:6F:D3	16	6
Ĩ	scientech	78:CD:8E:AB:8C:40	78	6
	peitan	60:A4:4C:47:78:28	23	11
e SW	dlink1	0:26:5A:A8:36:70	40	11
		0:26:5A:A8:34:E8	30	11
	sunbow	B8:55:10:B4:E2:A0	18	11
	🔘 sunbow_n	B8:55:10:B4:E2:A1	23	11

Serial to WIFI-produc 🚥 🗋	Status 🗋 The page at 10. The password is em	10.100.254 says: pty!	× C I
	Mode Selecting	AP+STA V	ĸ
Fast Setting	Network Name(SSID) case sensitive	scientech2	Scan
System STA Setting	Encryption Method	WPA2PSK V	
AP Setting	Encryption Algorithm	AES 🔻	
Network	Password	Show passwords	Enter the password
UART Setting	Obtain an IP address automatica	lly Enable 🔻	
Account	IP Address	192.168.2.101	
Upgrade SW Restart	Subnet Mask	255.255.255.0	
Restore	Gateway Address	192.168.2.1	
1.001010	DNS Server Address	192.168.2.1	
			Save

Fast Setting System	Saved Successfully!
STA Setting	Configurations will take effect after restart. After restart, you will need to re-login the configuration interface
AP Setting	for other settings, so it is recommended to restart after completing all settings.
Network	Please click [Restart] to restart now, or click [Back] to continue setting.
UART Setting	You can restart after all configuration.
Account	
Upgrade SW	Revart Back
Restart	
Restore	

Do not click "Restart"

B7, Click "AP Setting", it should be the same as the screenshot below, otherwise change the setting as below then click "Save".

Fast Setting	Wireless AP Setting Mode Selecting	AP+STA
System	Network Mode	11bgn
STA Setting	Network Name(SSID)	lifesos10001
AP Setting	Module MAC Address	ACCF233C
Network	Select Channel	2412MHz(channel 1)
UART Setting	Wireless AP Security Setting Encryption Mode	WPA2-PSK
Account	WPA Encryption	
Upgrade SW		TKIP OAES TKIF
Restart Restore	Password	12345678 Show Pass
Restore	Network Parameters Setting IP Address(DHCP Gateway Setting)	10.10.100.254
	Subnet Mask	255.255.255.0
	DHCP Server	Enable
		Sa

B8, Click "Network", select the protocol and set the Port ID number and Server Address as required then click "Save".

Foot Softing	SOCKET_A Setting Protocol	TCP-Client		
Fast Setting System	Port ID	1692		
STA Setting	Server Address	gateway.livingpatternco.com		
AP Setting	TCP Time Out Setting	0		
Network	SOCKET_B Setting Enable/Disable	Disable •		
UART Setting	Protoc ol	TCP-Client •		
Account Upgrade SW	Port ID			
Restart	Server Address			
Restore	TCP Time Out Setting	300		
I Vestore		Save		
 TCP-Server: To work with HyperSecureLink software or MyHome App, only port ID is needed. TCP-Client: To link to Cloud server like Livingpattern or Webehome, both Port ID and Server Address are needed. 				

Below example is for the linking to "Livingpattern" cloud services.

B9, Click "UART" Setting, it should be the same as the screenshot below, otherwise change the setting as below then click "save" and then click "**Restart**".

Fast Setting	UART Setting Baud Rate	9600	•
System	Data Bit	8	•
STA Setting	Parity Bit	None	•
AP Setting	Stop Bit	1	•
Network	CTSRTS	Disable	۲
UART Setting			Save
Account			
Upgrade SW			
Restart			
Restore			

B10, After successfully restart the wifi Adaptor don't forget to restore the wifi setting on your PC or tablet back to your router.

If you can't access the system from cloud after changing any parameter, please wait for about 10 minutes for the server to locate the new connection socket from the system again.

Appendix C: The GSM/GPRS setting in LS-20EG/LS-20GV

The GSM module in LS-20EG/LS-20GV can work in either GSM mode or GPRS mode upon request, but you need to specify when you place the order.

C1, Work in GSM mode

- C1.1 Turn off the PIN code of the SIM card on other mobile phone before using it in LS-20EG/LS-20GV.
- C1.2 Disconnect the power adaptor and use a straightened paper clip to stick in the hole of "Bat." to turn off the backup battery.
- C1.3 Insert the SIM card to the slot then turn on LS-20EG/LS-20GV power.



SIM card slot

C1.4 Connect the LS-20EG/LS-20GV USB port to your PC, use supplied HyperSecureLink software to set GSM and/or PSTN numbers at GSM phone No. 1~ 5. In addition, you can enter text in the GSM ID for easier identification when the SMS is received.

HyperSecureLink LS-20 ¥7.01.01					
System&Link Control Monitor Check	Install CMS	Scheduling	Backup&Restore	Database	Help
SSM GSM	Timer				
GSM phone No.1	Device Sound&Sire MISC GSM	n (23 di	igits/Char. max)		
Image: Contract of the contract of th	GPRS				
GSM phone No.5		Kevin LS-	20 Security		
i? C K GSM ID			te expires		
Image: Signal Quality (RSSI)		SMS + V	'oice		
		-113dB	- 0	-51dB	

Note: User will not receive the SMS message if the PSTN phone number is entered.

* Alarm Report Stop: (default, 30-minute expires)

:?	Alarm Report Stop	30-minute expires
		30-minute expires
		Made Successful CMS Report

User can select when the GSM calls should stop, either 30 minutes expired or the CMS calls were successfully made if the system connects to CMS also. (Please refer to the CMS settings.)

* Alarm Report: (default SMS+Voice)

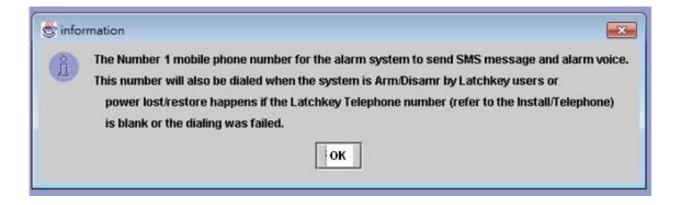
: ? 😂	Alarm Report	SMS + Voice 💙
		SMS + Voice
		SMS only

User can select the GSM calls are SMS plus Voice Call or send SMS only.

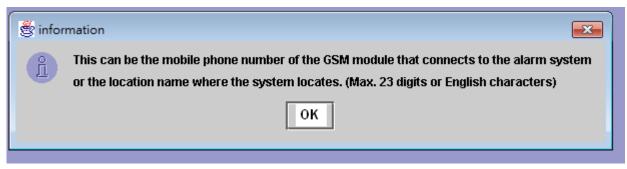
Note: To select SMS+Voice, LS-20 will sends all SMS messages first then dial the voice call one by one.

You can click the *icon* to see the explanations; as the screen shots below.

The explanation of "GSM phone No.1"



The explanation of "GSM ID"



C1.5 To record the voice that will be heard in the voice call. After click the icon, please keep about 20 cm away from LS-20EG/LS-20GV microphone and speak clearly.

Likewise, you can click the *i* to show the explanation and examples as below.

🧱 Sound&Siren	
👔 🥐 😂 Record Voice	
Segment	Common Segment 🛛 👻
	Common Segment
	Panic Segment
	Burglar Segment
	Fire Segment
	Medical Segment
	Special Segment
	Latchkey Disarm
	Latchkey Away

explanation and examples as below.

🗒 information
After an alarm call connects successfully, the Base Unit would play the pre-recorded emergency message.
The message should be recorded in the following separate segments,
Common Segment (13 seconds): The voice to be played during all alarm types.
This segment should contain your name, address and telephone number.
Ex: "This is, I live at, phone number is"
Panic Segment (4 seconds): The voice to be played during Panic alarm.
Ex: "Break-in! Break-in! Calling for emergency help."
Burglar Segment (4 seconds): The voice to be played during Burglar alarm.
Ex: "Burglar! Burglar! Calling for emergency help."
Fire Segment (4 seconds): The voice to be played during Fire alarm.
Ex: "Fire! Fire! Calling for emergency help."
Medical Segment (4 seconds): The voice to be played during Medical alarm.
Ex: "Heart patient! Calling for emergency help."
Special Segment (4 seconds): The voice to be played during Special alarm.
Ex: "High temperature in the building! Calling for an alert."
Latchkey Disarm (4 seconds): The voice to be played when a latchkey user change the system from AWAY to HOME or DISARM.
Ex: "I'm home."
Latchkey Away (4 seconds): The voice to be played when a latchkey user set the system from HOME or DISARM to AWAY mode.
Ex: "I'm out."
After the command is issued, you will hear a beep from the Base Unit and then speak clearly at the distance
about 10-20cm from the MIC.
*The environment should be kept quite.

Note: after setting is completed, the USB cable has to be removed from the base unit; otherwise, the LS-20EG/LS-20GV can't connect to the cloud server.

C 1.6 How to answer alarm call from LS-20.

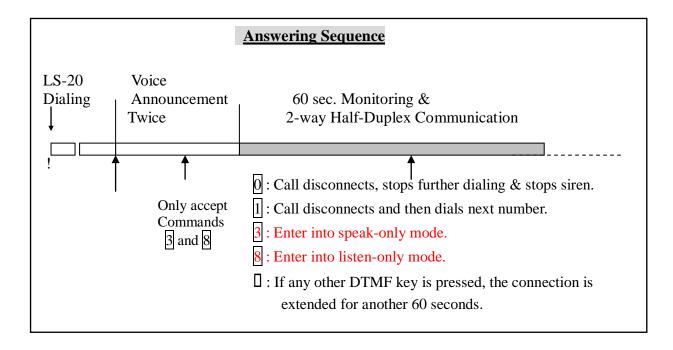
When you receive a call from LS-20, you can follow the procedures below to communicate with the system.

- You will hear the prerecorded message twice, which tells you what event happened to the system.
- After the announcement, the LS-20 enters into monitoring and 2-way half-duplex communication mode for 60 seconds. You can hear any sound picked up by the microphone on the Base Unit or talk to the people inside the house. During these 60 seconds, you can also control the system by pressing specific key on mobile/telephone keypad.
- If you don't press any key during this period, the first 30 seconds will be listen-only and then -after two beeps- the system will enter into 2-way half-duplex communication mode automatically. At 10 seconds before the call termination, one beep will be delivered to remind the receiver.
 - Press0: The system disconnects the call also stops siren immediately and stops any further dialing.Press1: The system disconnects the call also stops siren immediately and dials the next number,
 - Press 3 : Enter into speak-only mode. (The microphone on the base unit is disabled.)

Press 8 : Enter into listen-only mode.

Press any other key: The system will extend the connection for another 60 seconds.

Note: The sound of the siren or noise from the environment may interrupt the decoding of the input key tone, so keep pressing the key until the command becomes effective.



C2, Work in GPRS mode (Note: GPRS only can play the role as a "Client".)

- C2.1 Turn off the PIN code of the SIM card on other mobile phone before using it in LS-20EG/LS-20GV.
- C2.2 Disconnect the power adaptor and use a straightened paper clip to stick in the hole of "Bat." to turn off the backup battery
- C2.3 Insert the SIM card to the slot then reconnect the power.



SIM card slot

C2.4 Connect the LS-20EG/LS-20GV USB port with USB cable to your PC; use HyperSecureLink to set GPRS APN, GPRS Remote Server IP: Port and CMS1&Server.

Note: after setting is completed, the USB cable has to be removed from the base unit; otherwise, the LS-20EG/LS-20GV can't connect to the cloud server.

C2.4.1 GPRS APN varies with the mobile operators, please consult your local mobile operators or refer to the link below

http://www.hw-group.com/products/HWg-Ares/HWg-Ares_GSM_APN_en.html

HyperSecureLink LS-20 ¥7.01.01					
System&Link Control Monitor Check	Install CMS	Scheduling	Backup&Restore	Database	Help
I GPRS	Timer				
👔 🕐 😂 🗙 GPRS User (32 Char. M		ren (48 Char	. max. except spec	ified)	
i ? C X GPRS APN	GPRS				
GPRS DNS2 GPRS Remote Server	P:Port	gateway.livin	gpatternco.com:1692		

System&Link Control Monitor Check Install	CMS	Scheduling	Backup&Restore	Database H	le
CMS1&Server		1&Server			
	CMS	52			1
👔 🕐 😂 CMS1 GSM No.					
👔 🕐 💭 CMS User Account No.		-			
👔 🕐 😂 Mode Change Report		🔿 Enabl	e 🔿 Disable		
👔 🕐 😂 Auto Link Check Period		Disable	~		
Loop Back Test					
👔 🕐 😂 2-way Audio		🔿 Enabl	e 🔿 Disable		
👔 🕐 😂 CMS Report		💿 All	🔿 One		I
👔 🕐 😂 TCP/IP Alarm Report		💿 Yes	🔿 No		
1 CP/IP Report Format		Reserve	d	~	

- C2.5 Register the LS-20EG/ LS-20GV to the cloud server and connected the Ethernet cable. Please press "Clear" button on the base unit and open the web page of the cloud server from your PC to check if the connection to the server is successful.
- C2.6 LS-20EG/LS-20GV will connect to the server through Ethernet first, if it finds the Ethernet is not working then it will switch to the GPRS channel automatically.Switching from Ethernet to GPRS takes about 3~5 minutes depends on the network service provider, if the switching is successful then you will hear "OK" from the LS-20EG/LS-20GV.

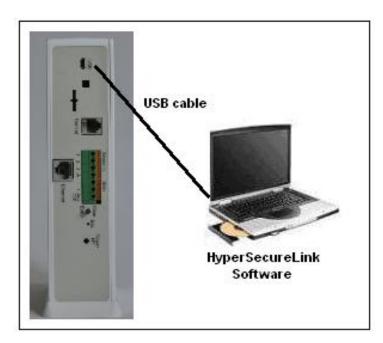
Note: To test this switching action, just remove the Ethernet cable and wait for 3~5 minutes.

C2.7 When the LS-20EG/ LS-20GV is using GPRS to transmit data, by pressing the "Clear" button on the rear panel, it will switch from GPRS back to Ethernet. At 00:00:00 midnight every day, the LS-20EG/LS-20GV will check if it is using GPRS service and then switch back to Ethernet to save the communication cost.

Appendix D: HyperSecureLink User Guide:

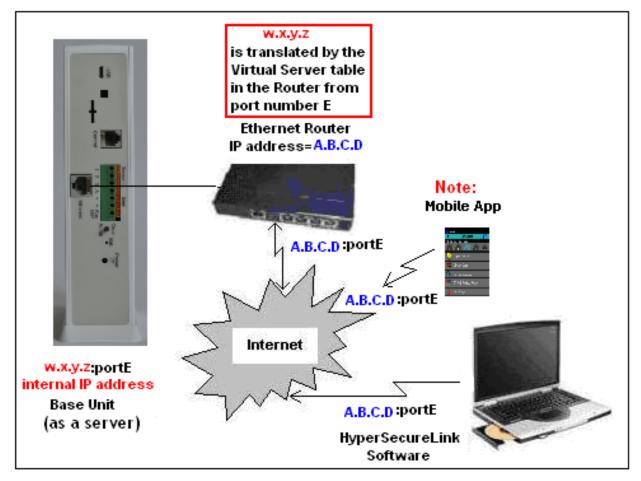
D1, Hardware Installation:

D1.1, Connect by USB cable in local setting.



D1.2, Connection Diagram for Internet Remote Access

(For the setting of the Ethernet Interface please refer to Appendix A 1.1~1.3)



D2, Software Installation:

HyperSecureLink software can run on Windows PC or Apple Mac.

For Windows PC, please open the HyperSecureLink-winxxx-SetupFiles and run the setup file. For Apple Mac, please open the HyperSecureLink-macxxx-SetupFiles and run the setup file.

Follow the wizard to complete the setup.



Then run the program

📕 HyperSecure	eLink LS-	20 77.02	.01								
System&Link	Control	Monitor	Check	Install	CMS	Scheduling	Backup	o&Restore	Database	Help	
System & L		e)) USE	1			ire	(Medical	Elderly	Police Monitor	
Operation	Target				:						
IP:Port	Ľ		:		Rer	dd nove rget					
System Login	n & User Password	. Update					ур	erSe	curel	Link	
i User I	Name m Passw	ard									
(8 digits		oru									
				su	ıbmit						

D3, Select Link

D3.1 Using USB interface to access the LS-20.

S	elect USB .	`		
	System Link	I USB		
	Com Port	COM3 COM3 Please Select		The software will scan the USB ports that are available in your PC. Select the correct one to use.

D3.2 Using Ethernet interface to access the LS-20

D3.2.1, Select Ethernet (Remote) .

D3.2.2, Enter the IP address or domain name and the Port number of the LS-10 and click Add.

System I		OUSB	
Operation Ta	arget		
IP:Port	210.68.28.137	: 1690	Add *
IP address or D	omain Name and po	ort number	Remove Target

D3.3.3, Mark the IP address and click the **Target** to assign this address as the operation target.

mote) 🔷 O USB	
et 210.68.28.137	¹ 1690
:	Add
192.168.2.90:1690 scientech.dlinkddns.com:1690 210.68.28.137:1690	Remove Target
	mote) USB 210.68.28.137 : 192.168.2.90:1690 scientech.dlinkddns.com:1690

D4, Database User Name and Password

(These two settings are not necessary if you don't use the "**Database**" or the "**Control Command Password=Disable**" on LS-20.)

Device Database:

Please refer to the "6. Device Name Data Base Management".

User can assign a device name to each sensor/controller. When the Event Log, Device Status or Special Sensor Reading are recalled, the software will match the "User Name/ Device Type/ Zone Number" under in the Data Base and show the corresponding device name on the table.

👔 System User	
System Login Password Update	
System User Name	scientech
Password	••••
(8 digits max.)	
	submit

Password:

If the setting of the LS-20 Base Unit " **Control Command Password = Enable**" then you should enter the passwords.

D5, Operation

Select the function from the Menus bar.

* Click down arrow to select the options.

* Update the setting of the LS-20 Base Unit by clicking \square .



* Read the status from the LS-20 Base Unit by clicking $\boxed{2}$.

📕 НуретSесш	reLink LS-20 ¥7.0	2.01				
System&Link	Control Monito	r Check Ir	istall CMS	Scheduling	Backup&Res	store Databa
Control						
	Operation Mode	DIC				
	operation mode	DIS	ARM		Down arrow	1
	Switch	HON				J
_/	1 2 3	4 AW/ Mon		9 10	11 12 13	14 15
	ON 🔿 🔿 (0 0 0	0 0	0 0 0	000	$\circ \circ \circ$
	OFF 🔿 🔿 (0 0 0	0 0	0 0 0	000	$\circ \circ \circ$
1	Clear Status					
:	Siren Test	Device	Test			
i Exter	nal Alarm Siren Co	ontrol	ON	OFF		
1?	Partial Zone					
	Crown No.	91 92	93 94	l 95 9(5 97 9	8 99
	Group No. Disarm					
	Home	õ õ	ŏč		0 0	
	Away	0 0	0 (0 0	0 0
122	Control Comman	nd Password		🔘 Enable	0)isable
	1.1					
ecking the function	and the opera	tion of the	comman	d by clickin	g 🛄.	
C Operation Mode	PIG 4 PM					
	DISARM	•			Fire	Medical
on						
Away: Activate the syst	am whan you loov	home or hu	iners			
Home: When you stay				nd "24-Hour Zo	one" sensors wi	ll trigger the al
Disarm: System will no	-					
Monitor: Same as Disa	rm Mode but reco	rds all the trig	aer events fr	om the Burglar	sensors and n	o Burglar alarm

*Monitor: This function will check the Event log in every 30 seconds and update Device Status in every 5 minutes automatically after start. If you want to change the event read number or another device type then you have to stop the reading first.

			i	Stop	25 Ever	nts 🔽		
Seq	Icon	Co	Event	Zone	Туре	Date/time	Device Name	
L	↔	1618	Trigger (Burglar Sensor)	11-19	Burglar	02/01 11:11		
2	+	1618	Trigger (Burglar Sensor)	01-06	Burglar	02/01 11:05		
:	÷	1138	Near Alarm (Prewarning)	01-06	Burglar	02/01 11:05		
Ļ	++	1618	Trigger (Burglar Sensor)	11-19	Burglar	02/01 11:05		
i	+	1618	Trigger (Burglar Sensor)	11-19	Burglar	02/01 11:05		
i	+	1618	Trigger (Burglar Sensor)	01-06	Burglar	02/01 11:04		
1	÷	1138	Near Alarm (Prewarning)	01-06	Burglar	02/01 11:04		
	1	1619	Monitor Mode	00-2f	Base unit	02/01 10:58		
	+	1618	Trigger (Burglar Sensor)	01-06	Burglar	02/01 10:58		
0	÷	1138	Near Alarm (Prewarning)	01-06	Burglar	02/01 10:58		
1	++	1618	Trigger (Burglar Sensor)	01-06	Burglar	02/01 10:58		
2	÷	1138	Near Alarm (Prewarning)	01-06	Burglar	02/01 10:58		
3	++	1618	Trigger (Burglar Sensor)	01-06	Burglar	02/01 10:45		
4	÷	1138	Near Alarm (Prewarning)	01-06	Burglar	02/01 10:45		
.5	+	1618	Trigger (Burglar Sensor)	01-06	Burglar	02/01 10:45		
.6	÷	1138	Near Alarm (Prewarning)	01-06	Burglar	02/01 10:45		
7	+	1618	Trigger (Burglar Sensor)	01-06	Burglar	02/01 10:39		
8	÷	1138	Near Alarm (Prewarning)	01-06	Burglar	02/01 10:39		
.9	1	1354	CMS Report Fail	00-34	Base unit	02/01 10:32		
20	!	1384	Sensor Low Battery	05-10	Special	02/01 10:31		
1	!	1384	Sensor Low Battery	05-10	Special	02/01 10:31		
2	!	1384	Sensor Low Battery	05-06	Special	02/01 10:31		
3	!	1384	Sensor Low Battery	05-06	Special	02/01 10:31		
24	+	1618	Trigger (Burglar Sensor)	01-06	Burglar	02/01 10:25		
25	-	1138	Near Alarm (Prewarning)	01-06	Burglar	02/01 10:25		

		i	Stop	~		
Seq	Zone	Device Type	Reading	Signal	Device Name	
1	01-03	😳 Remote Controller		📶 66 dB		1
2	01-04	😳 Remote Controller		🗾 99 dB		
3	01-02	😳 Remote Controller		🗾 99 dB		
4	99-00	😳 X Key Pad		📶 58 dB		
5	82-00	😳 X Key Pad		🗾 84 dB		
6	02-01	😳 Status Indicator	Trouble			
7	02-02	😳 Status Indicator	Trouble			
8	02-03	😳 Repeater	Trouble			
9	02-04	😳 Remote Controller		📶 74 dB		
10	02-05	😳 Remote Controller		🚽 99 dB		
11	02-07	😳 Remote Controller		📶 22 dB		
12	02-08	😳 Remote Controller		📶 32 dB		
13	02-09	😳 Remote Controller		🗾 99 dB		
14	99-01	🚪 Door Magnet	Door Close	🗾 89 dB		
15	01-04	[Door Magnet	Door Open	📶 34 dB		
16	01-05	🚅 Vibration Sensor	Trouble			
17	01-06	🚅 PIR Sensor		📶 61 dB		
18	01-07	🚅 Remote Siren	Trouble			
19	01-08	🗼 Remote Siren		🗾 99 dB		
20	01-09	📘 Door Magnet	Door Close	🗾 89 dB		
21	11-15	🚅 Glass Break Detector	Trouble			
22	11-16	🝦 PIR Sensor		🗾 95 dB		
23	11-18	🚅 PIR Sensor	Trouble			1

Save to File: Press this button will save the reading results under the directory you assigned for further analysis.

* Check: This function will give user a more detailed Event Log and Device Status than the Monitor function.

						?	AII			*							
No.	Zone	Sensor Type	ID	MA	DC	ES	SW	CS	DT	CD	AH	AL	SS	CH	CL	Device	
18	01-07	Remote Siren	99316a	00	10	1410	0000	bd	00								
19	01-08	Remote Siren	9933d7	00	10	1410	0000	bb	10								1
20	01-09	Door Magnet	000011	00	10	1730	0006	99	0e]
21	11-15	Glass Break Detector	1a4c92	00	10	1410	0000	83	00]
22	11-16	PIR Sensor	9Ъ1705	00	10	0410	0000	a1	10								
23	11-18	PIR Sensor	60634a	00	10	0410	0000	bf	00								
24	11-19	PIR Sensor	606351	00	10	0410	0000	ab	Of]
25	11-20	PIR Sensor	200005	02	10	0410	3000	b4	00								
26	11-21	Door Magnet	000079	11	10	5410	0000	68	10]
27	01-02	Smoke Detector	4b3071	00	00	0c00	0000	c2	Of								
28	01-03	CO Detector	000001	00	10	0c10	c000	8e	00								
29	01-04	CO Detector	005102	00	00	0c00	0000	a2	Of								
30	11-06	Gas Detector	1030e6	00	10	0c10	0000	66	00								
31	01-01	Medical Button	406005	00	00	0c00	4000	38	Of								
32	02-01	Temp Sensor	209779	00	10	2810	8000	66	00	+21	+30	+10	40	+18	+12		
33	01-06	Light Detector	777079	00	10	2c10	4000	66	00				40	+0	+0		
34	01-07	Temp Sensor	411011	00	10	2c10	0000	бе	00	+27	+26		40	+0	+0]_
35	01-08	Humid Sensor	411011	00	10	2c10	8000	54	00	+68	+40		00	+0	+0		1
36	02-17	Analog Sensor	800068	00	10	2810	2000	be	00	+100		+50	00	+0	+0		1
37	02-18	Temp Sensor	800068	00	10	2c10	0000	c2	00	+28	+26		00	+0	+0]
38	04-06	Temp Sensor	813001	00	10	2c10	0000	8c	00	+19	+28	+26	00	+0	+0]
39	05-01	3-phase AC Meter	813001	00	10	2c10	4000	8c	00	+41	+25	+10	00	+23	+12]
40	05-02	3-phase AC Meter	813002	00	10	2c10	0000	88	00	+0			00	+0	+0		

D6. Device Name Data Base Management

User can assign a device name to each device and zone. When the Event Log, Device Status or Special Sensor Reading are read, the software will match the **User Name, Device Type and Zone Number** in the Data Base and show the corresponding device name on the table.

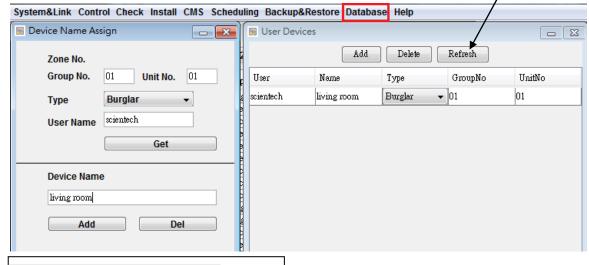
For example, if you installed two systems, one in your company (name: scientech) and the other one in your home (name: John), and they both have the Door Magnet Burglar Sensor at Zone 01-01.

The device name of the Burglar Sensor 01-01 in the office is "Front Door".

The device name of the Burglar Sensor 01-01 at your home is "Living Room".

The software uses different User Name to identify the two different devices although they have the identical Device Type and Zone Number.

* Creating the Device Name in Database:



Device Name to the Data Base

- 1, Enter Group Number.
- 2, Enter Unit Number.
- 3, Select Device Type.
- 4, Enter User Name.
- 5, Enter Device Name.
- 6, Press "Add".

* Click the Refresh to check the new device entry.

D7. Backup&Restore

* **Backup:** User can backup the system settings (not including the password) as a .sav file in the **"Backup"** directory. The file name can be changed to identify different systems and the time of backup file generated.

Backup				
Backup Label	backup20130925]		
	Save +		Name	can be changed
			to ider	ntify the system
			and ba	ckup time.

* **Restore:** User can restore the system settings from the backup files.

Restore	
	Select one to restore

- Note: 1, To restore the system settings, user has to enter the "Password" in the "System&Link".
 - 2, Check the "Device Status" to make sure all the devices has been restored.

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 of 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.

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