



It is recommended that only persons who have sufficient knowledge and experience such as system designers and responsible persons deal with this product after carefully reading the product manual.

1 The matters of safety

WARNING

- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- Do not let the water touch the product. It may cause electric shock or fire due to malfunction.
- When you check or maintain the product, make it sure you turn off the power. It may cause electric shock or fire due to malfunction.
- Secure the product firmly when you want to secure it. There is a possibility of accident due to fall-over or malfunction, etc.
- Secure working space when you install the product. If working space is not secured, the checking or maintenance of the product is made impossible leading to failure of the product.
- Do not use the product at the place where dangerous material such as inflammable or ignitable material exists. This product is not the product of anti-explosive type.
- This device is made only for industrial uses. You need to ground the device beforehand. Otherwise, there are in case of malfunction, electric shock, or fire damage.

CAUTION

- Do not contact the discharge needle or terminal with power applied. There is a possibility of electric shock or malfunction.
- Handle the discharge needle with care as its tip is very sharp.
- Connect wires referring to the product manual. Wrong connection can cause failures.
- Take precautions as cables of the adaptor, the power line and communication line of each product may disconnect. If the cable is damaged, replace it immediately.
- Do not install the device where the vibration can be detected. Any minor impact or vibration on the device, the malfunction or danger of accident might happen.
- Do not use the product for the purpose outside of the range of the product use. If the product is used for the purpose outside of the range of the use, it can result in the trouble or the shortened service life. Or an unexpected problem may occur.
- The ionizer generates ozone(below 0.05ppm). If you sense the smell of ozone when you use more than two units, ventilate the air.
- When installing or transporting the ion bar, be prepare not to bend the item during the process.

2 Check the package contents

Product compositions

The package includes the following products composition.



Ion Bar SRB Series / 2ea



Power Controller SRC-2P / 1ea

- Output Cable SOC-RB-1-001 10m / 2ea
- Ground Cable SGC-MT-2-001 1m / Ø4-Ø4[mm] / 1ea
- Middle Bracket SBR-B7-2-001 0~3ea
- Power Cable SPC-MT-1-001 AC 100V, 50/60Hz, 1.8m / 1ea or Power Cable SPC-MT-2-001 AC 220V, 50/60Hz, 1.8m / 1ea

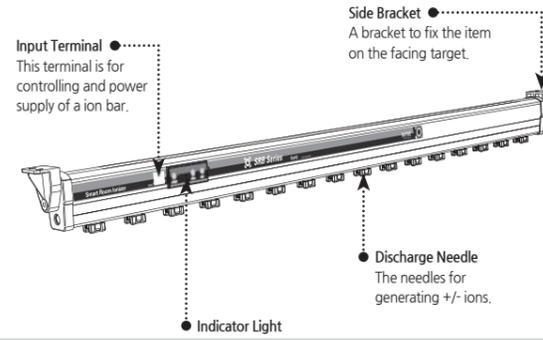
Option

If you require extra functions with the basic accessories we provided, you need to purchase optional items in below for further assistant.

- RMS Controller RMSU
- Signal Cable SUC-MT-2-001 10m

3 Nomenclatures of parts

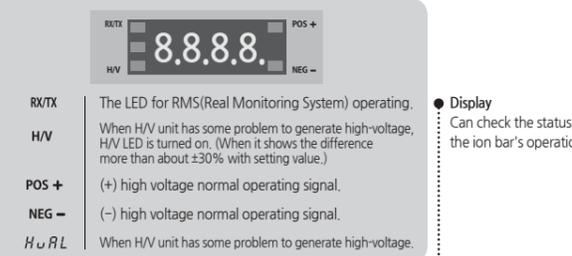
Ion Bar (SRB Series)



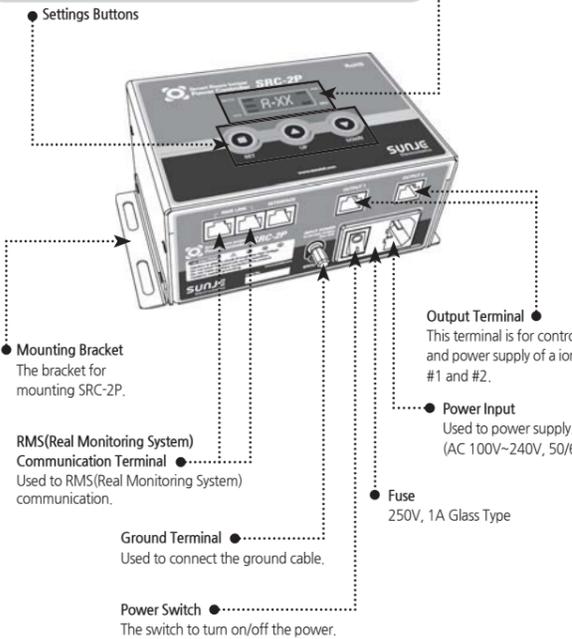
NO	Name	Function
1	Alarm LED	When H/V unit has some problem to generate high-voltage, alarm LED is turned on. (When it shows the difference more than about ±30% with setting value.)
2	POS(Positive) LED	(+) high voltage normal operating signal.
3	NEG(Negative) LED	(-) high voltage normal operating signal.

Power Controller (SRC-2P)

- Please try to input your power connection with an exclusive power controller(SRC-2P) of SRB Series.
- The composition of a package(1set) can be consisted of a controller and two ion bars. We recommend you to purchase and install as a package as a unit.



- SET: This button is used for various settings. (Address, Output Time, Output Voltage)
- UP: Use it when you increase the setting value.
- DOWN: Use it when you decrease the setting value.



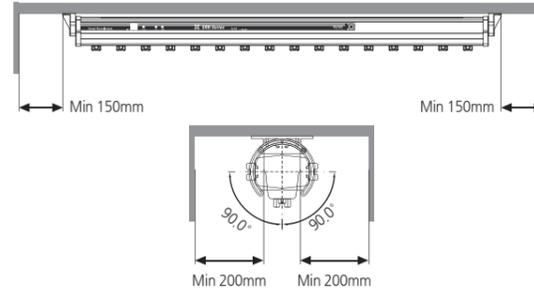
4 Installation and connection

Ion bar installation

When you install the ion bar, Please check the distance between ion bar and object. ※ Please, handle with care when you carry or install not to break or bend an ion bar.

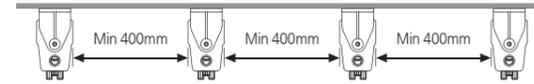
Interference by Grounding Matters

If there is any conductive object close to ion bar, SRB Series may not operate properly. Please install it with reference to figure below.



Side to Side Installation (More than two sets)

When the more than two ion bars are installed, to avoid interference, the range between two ion bars should be more than 400mm.



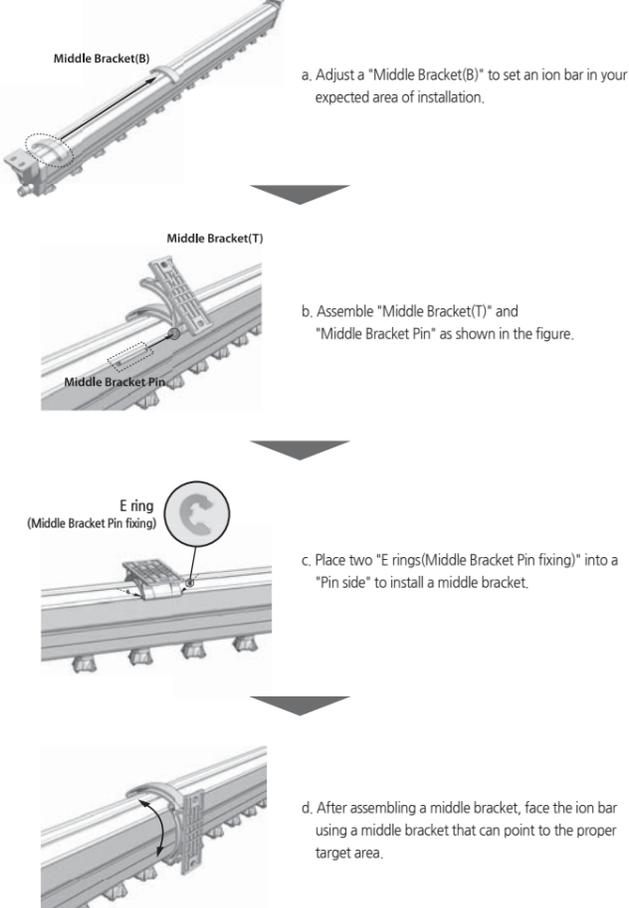
Installation by Middle Brackets

The middle bracket is used to protect bending problem by the weight of ion bar. Please fix the middle bracket with M4 bolts. The number of supporting middle bracket will differ from the models.

※ Ion Bar Middle Bracket Quantity

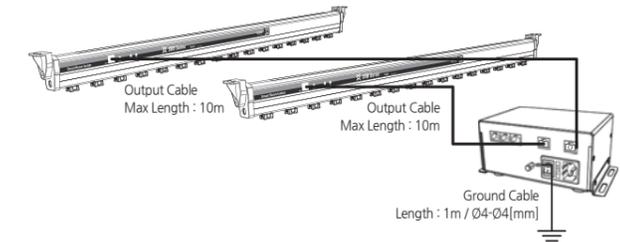
Model	Middle Bracket Quantity
SRB-1100 ~ 1300	-
SRB-1500 ~ 1800	1ea
SRB-2000 ~ 2300	2ea
SRB-2500 ~ 3400	3ea
SRB-3600	4ea

Middle Bracket Installation

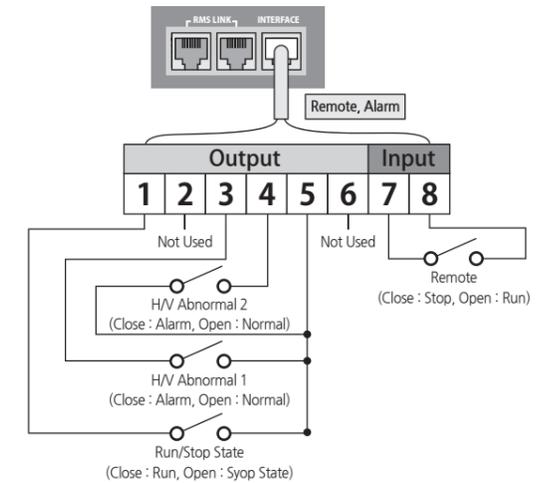


How to connect the power controller

- If you use a power controller without an exclusive SRB Series component, it might cause product malfunction.
- The composition of a package(1set) can be consisted of a controller and two ion bars. If you only use one ion bar to the specified controller, it might not function properly. We recommend you to purchase and install as a package as a unit.
- The maximum installation length from an ion bar to controller is 10 meter. If it exceeds, it might not function properly.



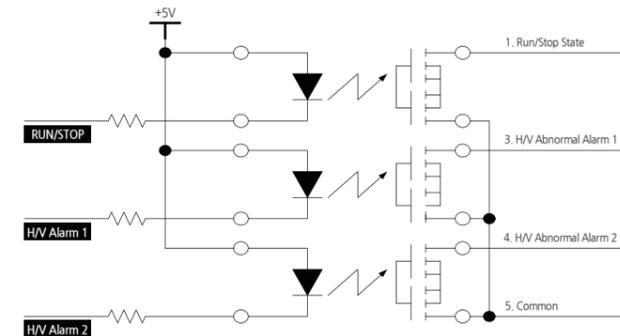
Interface



No	Color	Function	Input / Output	Picture	Remarks
1	Brown	Run/Stop State	Photo Relay Output (Run-Close, Stop-Open)		Output
2	White & Brown	Not Used	-	-	
3	Orange	High Voltage Abnormal 1	Photo Relay Output (Normal-Open, Alarm-Close)		
4	White & Orange	High Voltage Abnormal 2	Photo Relay Output (Normal-Open, Alarm-Close)		
5	Green	Common	-	-	Input
6	White & Green	Not Used	-	-	
7	Blue	Remote 1	Remote (Close : Stop, Open : Run)		
8	White & Blue	Remote 2	Remote (Close : Stop, Open : Run)		

※ The device must be grounded to prevent electric shock in order to function well.

Circuit (Photo Relay Output)



► RMS (Option)

Monitoring operation and abnormal conditions of the installed ionizer for static elimination in real-time from the PC connected to the network management system that can fit a large amount of static electricity; trends for operating device in the management of unmanned removing is highly recommended for the customers.

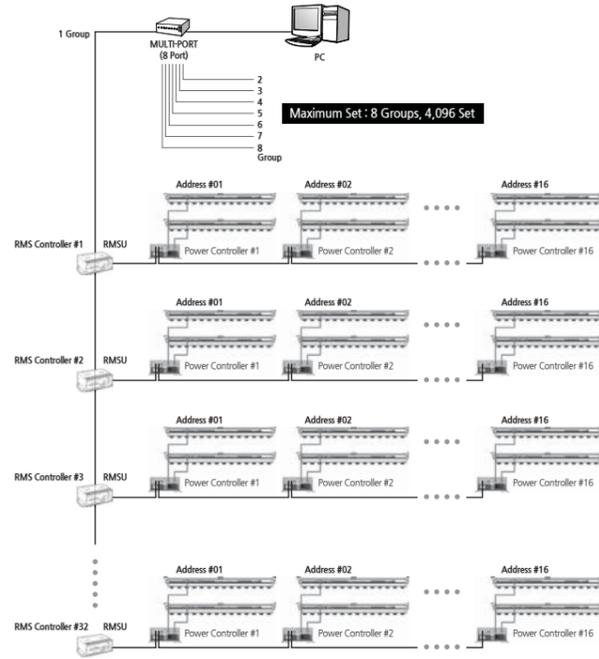
RMS Features

- a. Max. 4,096 sets of ion bar.
- b. Real Time Monitoring of ion bar condition. (Signal checking cycle : max. 1min)
- c. Record, revise and cancelation of managed history by operator.
- d. Ion bar checking and abnormal history.

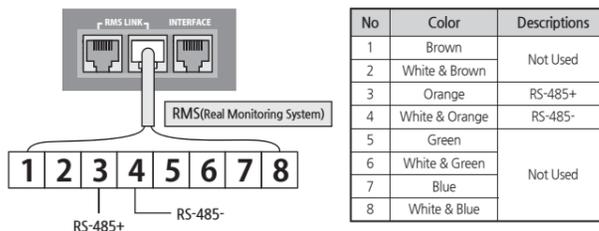
Monitoring Function

- a. Provide fine display view.
- b. Equipment ID, equipment name, maker, ion bar state, maintenance history.
- c. Detailed data checking in several groups.

RMS Configuration



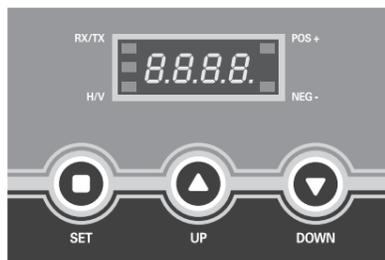
RMS UTP Specifications



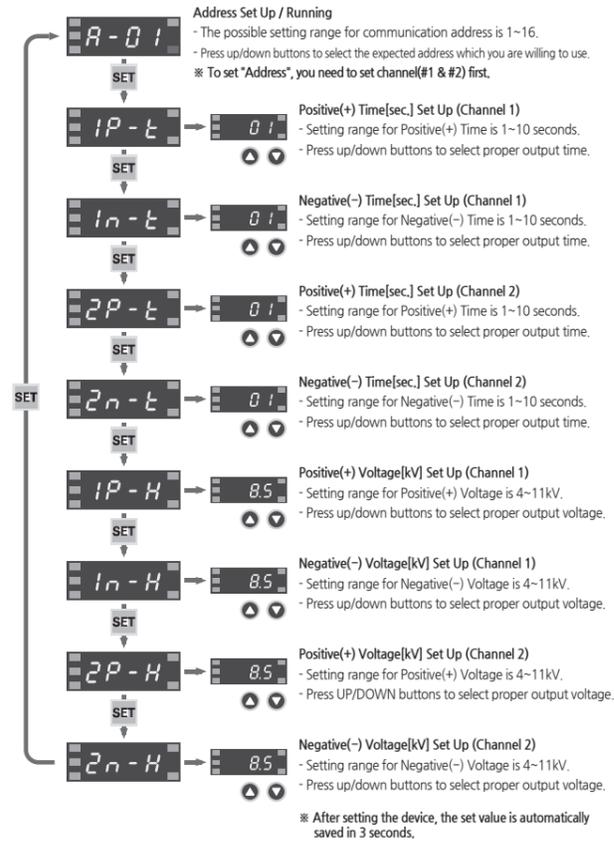
5 How to set

► SRC-2P

Settings



< SRC-2P Controller Panel >



6 Maintenance

Maintenance is an essential item for maintaining its capacity. Please conduct a routine maintenance according to the below description. The life time of a discharge needle can be a difference depending on using circumstance. SRB Series needs a routine maintenance and cleaning in case of bad circumstance. (high humidity or dust)

CAUTION

- This device uses the high level of voltage. When operating maintenance, please power off and unplug the device. Otherwise, there might be in case of electric shock or fire damage.
- The discharge needle is very sharp at the edge. Do not physically(directly) touch the discharge needle.
- When cleaning the discharge needle using an organic solvent, do not use the organic solvent to clean the socket around the discharge needle.

► Discharge needle cleaning

The contamination level of discharge needle is different among the areas where the user installs, please maintain own cleaning period that suits your environment.

► Discharge needle cleaning order

- a. Be sure to power off before cleaning the ionizer.
- b. Please clean it as the table below.

Cleaning with a cotton swab	Cleaning with a brush	Ultrasonic cleaning
After moistening a cotton swab with alcohol, wipe the discharge needle from side to side with the swab. (do not use acetone)	Spray alcohol on the brush and use it to clean the discharge needle.	Separate the socket and clean it using an ultrasonic cleaner. (Do not wash for more than 2 minutes) (Water:Alcohol = 9:1 ratio)

- c. Replace the damaged discharge needle.
- d. After the cleaning, let the alcohol applied to the discharge needle surface evaporate completely and then operate the Ion Bar.
- e. Please record the cleaning process as a reference in the file.

► Discharge needle maintenance

If the discharge needle broken or severely damaged, please replace the needle socket immediately.

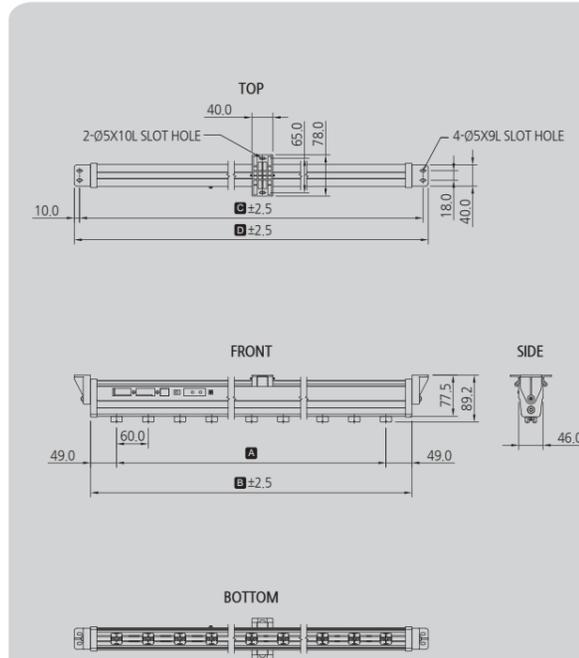
7 Problem solving

► Checklist before called

Problem	Identifying Problem	Solution
The product does not work	Is your power cable still plugged in?	Please re-plug the power cable and then turn the device on again.
	Was the proper voltage level applied for this set-up?	Please use the proper level of power input for the device. (AC 100~240V, 50/60Hz)
There is no ionization	Is there any conductive material around the device?	Please refer to "Installation & Connection, for setting the proper target distance from device.
	Does the installed environment have too high/low level of humidity or temperature?	Please install the device upon the proper working specification.
The ionizing performance has been decreased.	Any damages or cut on the cables?	You need to replace the cables if it gets cut or damaged.
	Any contamination on the discharge needle?	Please refer to "Maintenance, for cleaning the discharge needle.

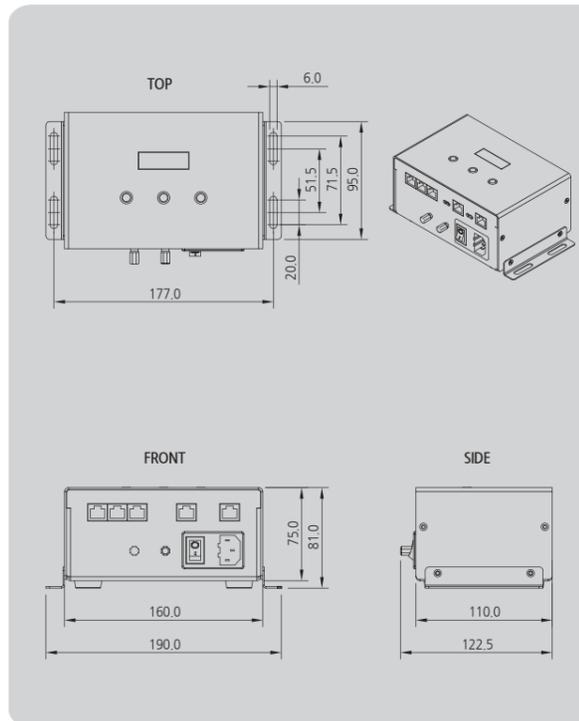
8 Dimensions

► Ion Bar (SRB Series)



No.	MODEL No.	TIP QTY	A	B	C	D	MIDDLE BKT QTY
1	SRB-1100	18	1020	1118	1160	1180	-
2	SRB-1200	20	1140	1238	1280	1300	-
3	SRB-1300	22	1260	1358	1400	1420	-
4	SRB-1500	24	1380	1478	1520	1540	1
5	SRB-1600	26	1500	1598	1640	1660	1
6	SRB-1800	30	1740	1838	1880	1900	1
7	SRB-2000	34	1980	2078	2120	2140	2
8	SRB-2100	36	2100	2198	2240	2260	2
9	SRB-2200	38	2220	2318	2360	2380	2
10	SRB-2300	39	2280	2378	2420	2440	2
11	SRB-2500	43	2520	2618	2660	2680	3
12	SRB-3000	50	2940	3038	3080	3100	3
13	SRB-3200	53	3120	3218	3260	3280	3
14	SRB-3400	56	3300	3398	3440	3460	3
15	SRB-3600	59	3480	3578	3620	3640	4

► Power Controller (SRC-2P)



9 Specification

► Ion Bar (SRB Series) / Power Controller (SRC-2P)

Parameter	Description / Value	Remarks
Input Power	AC 100 ~ 240V, 50/60Hz	
Power Consumption	Max. 15W	
Current Consumption	Max. 68mA	AC 220V
Ion-Generation Method	Corona Discharge Pulse AC	
Main Body Material	SRB Series	Non-Flammable ABS Level V0
	SRC-2P	EGI
Electrode Material	Tungsten	
Electrode Replacement	Cartridge type	
Operation Circumstance	0°C ~ +50°C(32 F ~ 122 F), 35% ~ 85% RH	
Dimensions	See the accompanying drawing paper	
Function	Remote Control	
Adjust Function	Period [Sec.]	Positive 1 ~ 10 Sec. / Negative 1 ~ 10 Sec.
	Voltage [kV]	Positive 4 ~ 11kV / Negative 4 ~ 11kV
Alarm Function	H/V Abnormal	
Interface	Run, Stop, RS-485, Alarm(H/V Abnormal)	RJ45
Mounting Method	Bolt Mounting with Bracket	
Warranty	1 year	

* The appearance and specification of the product may be changed without prior notice for the improvement of the product.

SUNJE Electrostatics

www.sunstat.com

Head Office & Factory (Busan)
8, Cheongwang-gil, Igwang-Myeon, Gijang-Gun, Busan, Korea
T) +82-51-720-7500 F) +82-51-720-7501

Sunje Japan Co., Ltd.
Dai 7 Matsuya Bldg 10F 1005 2-23, Honmachi-bashi, Chuo-ku, Osaka, Japan
T) +81-6-6949-5001 F) +81-6-6949-5011

Central Sales Office (Hwaseong)
3F, Ilshin B/D, 4, Nammyeoul 2-gil, Hwaseong-si, Gyeonggi-do, Korea
T) +82-31-203-9034 F) +82-31-202-9034

Sunje (SHANGHAI) Trading Co., Ltd.
Block C, 4F, No.482, Hongxu Road, Minhang District, Shanghai, China
T) +86-21-5433-9761 F) +86-21-5433-9762

Southern Sales Office (Chilgok)
35-2, Seojungni 3-gil, Seokjeok-eup, Chilgok-gun, Gyeongangbuk-do, Korea
T) +82-54-476-9033 F) +82-54-476-9034

Sunje Technology Co., Ltd.
2F, No.6, Lane.102, Sinhe Rd, Sinfong Township, Hsinchu County, Taiwan 30472
T) +886-3-568-7891 F) +886-3-568-7950

Customer Center +82-70-7714-9033
Sales Contact +82-31-203-9034