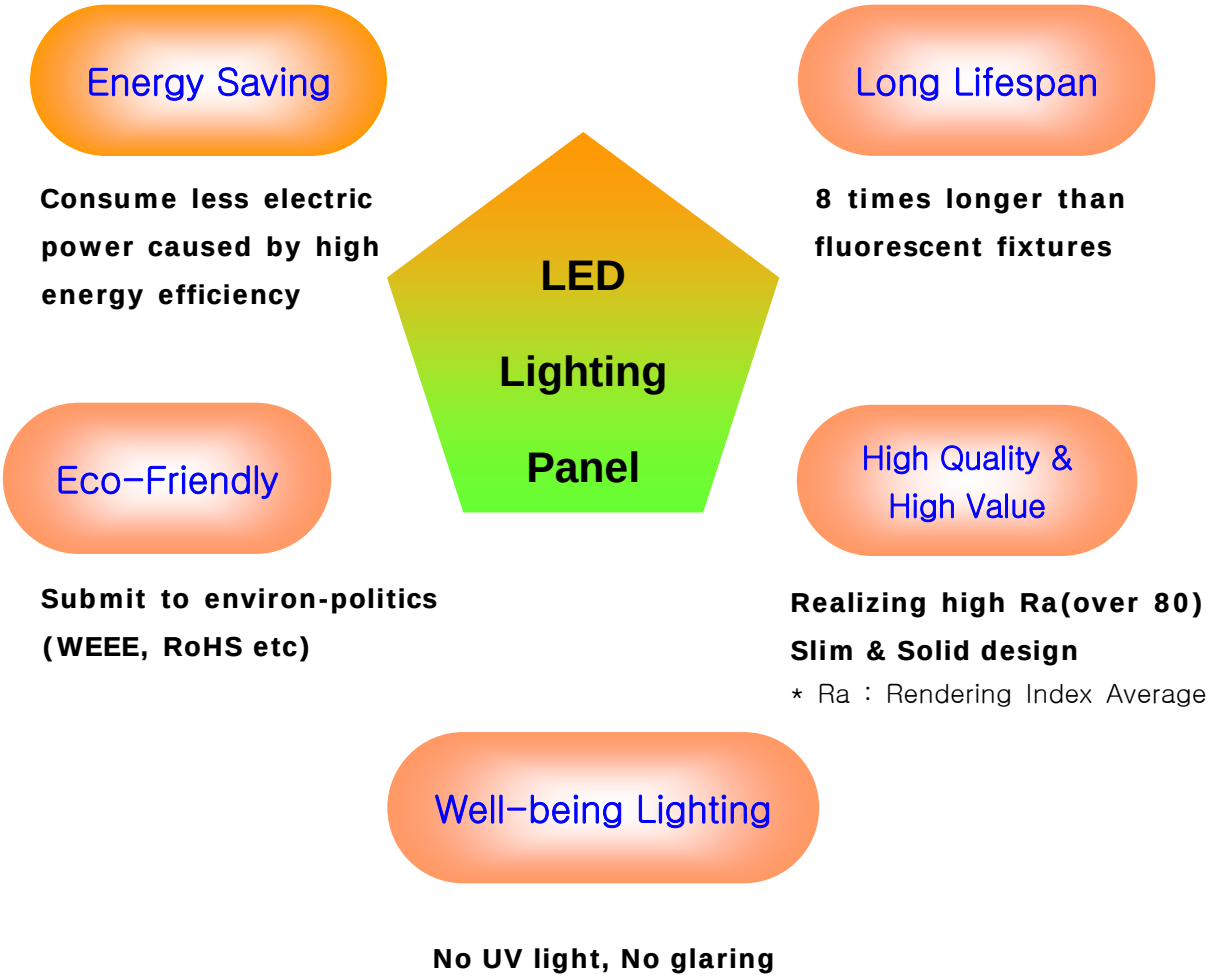
USER MANUAL

LED Lighting Panel

Advantages of LED Lighting Panel



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1. SPECIFICATIONS

<PRODUCT STANDARD>

Model Name	300S-LED LP		600S-LED LP		1200S-LED LP		1200W-LED LP	
Dimension (mm x mm)	300 X 300		595 X 595		1200 X 300		1200 X 450	
Luminous Flux	1350 Lms		5400 Lms		5400 Lms		5760 Lms	
Power(W)	18W		72W		72W		72W	
Color Temp.(K)	3500	5500	3500	5500	3500	5500	3500	5500

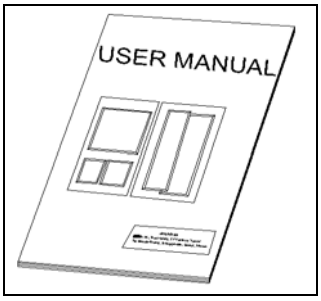
*Specifications of products are subjected to change without notice.

Input power AC 100~240V, 50~60Hz

<BASIC COMPONENTS>

LED Panel

PSU



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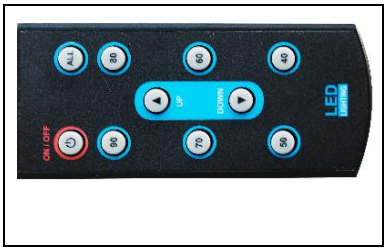
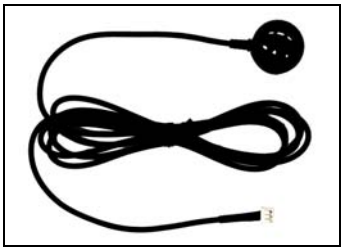
(WITH WARRANTY SHEET)

<OPTIONAL COMPONENTS>



Remote Controller

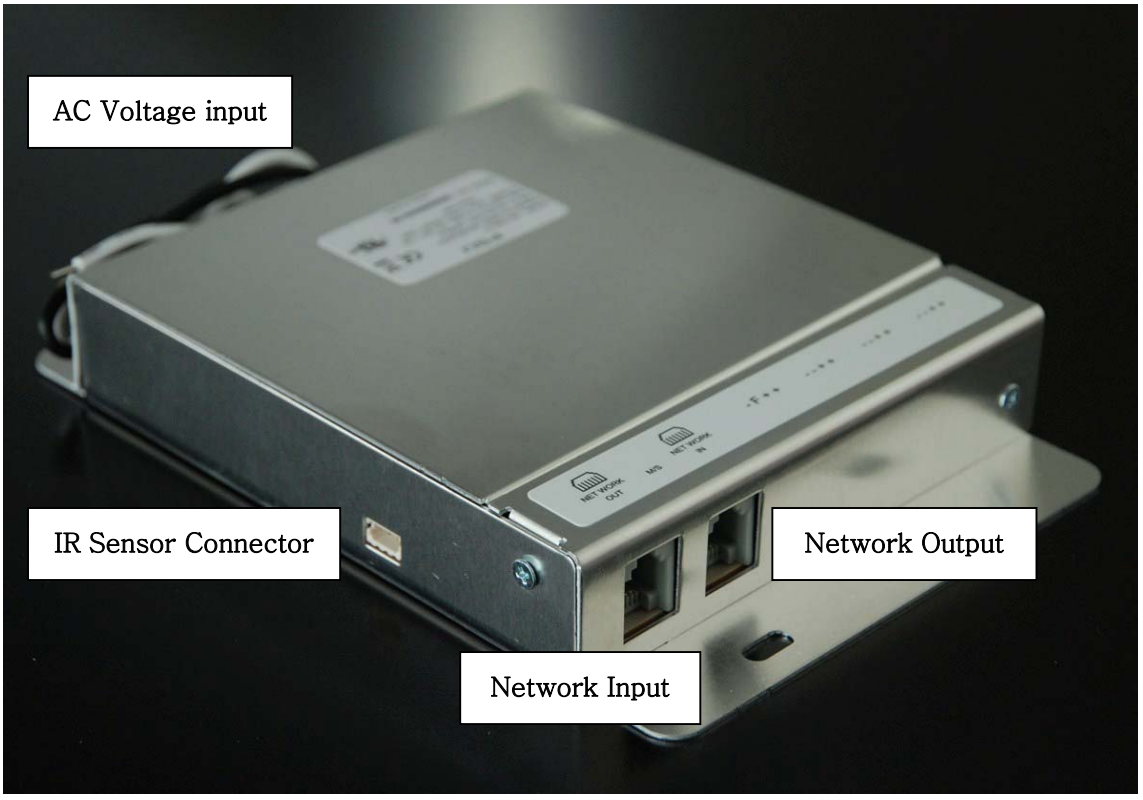


IR Sensor

2. Main functions and features of product

(1) PSU(Power Supply Unit)

PSU is an apparatus to supply power that is operating the LED lighting with a constant and stable voltage by changing from alternating current more than 100~240 volts to direct current through AC/DC converter.



■ PSU Specifications

1) Operating/Storage Temperature

Operating Temp.: 0℃ ~45℃, Humidity : 75%±20% RH

Storage Temp.: -40℃~ 85℃, Humidity : 75%±20% RH

2) Electrical Characteristics

① Input Characteristics

AC Rated Input Voltage : 100 ~ 240Vac

AC Operating Input Voltage : 90 ~ 254Vac

AC Input Frequency : 50/60Hz

AC Input Current : Max <2A_{rms}

Inrush Current : < 60A peak

Power Factor : >90%

② Output Characteristics

Output Voltage : 54V

Output Current : 1.5A

Feedback Current : 180mA

③ Power Consumption

Max Power Consumption : < 90W

④ Efficiency : < 80%

■ Dip Switch Setup

If you want to assign PSU as master set up dipswitch as Fig.A.
If you want to assign PSU as slave set up dipswitch as Fig.B.

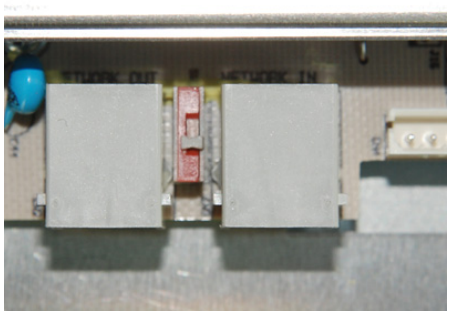


Fig.A

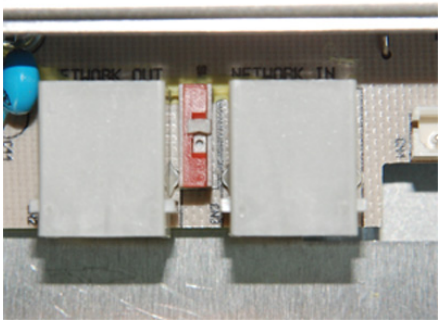
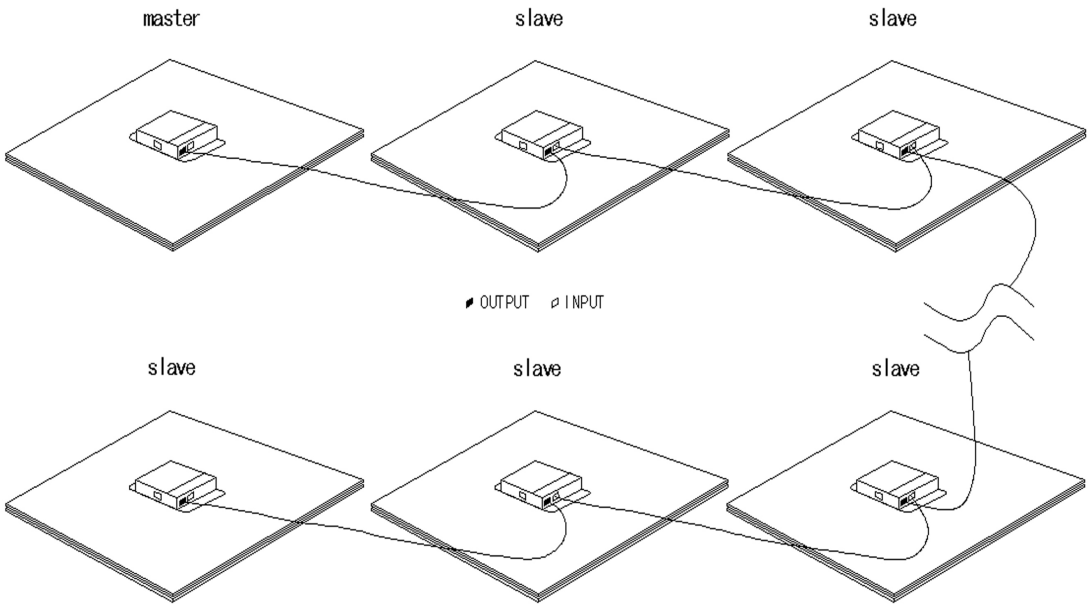


Fig.B

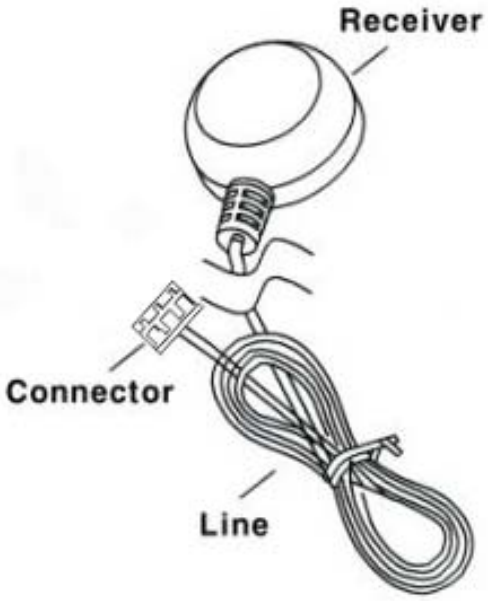
■ Network Connection

Connect IR Sensor into IR Sensor connector of PSU assigned as Master. Connect Network Output of Master to Network Input of Slave as following drawing. You can use normal RJ 4p4c telephone cable for network connection. Up to 10 panels can be connected by network. Maximum length of network cable for each panel is 5m.



(2) IR SENSOR

IR sensor is controlled by the operation of remote control, able to be operated in a certain distance in the room with a high-speed response. Standard length of IR sensor cable is 1.5m.

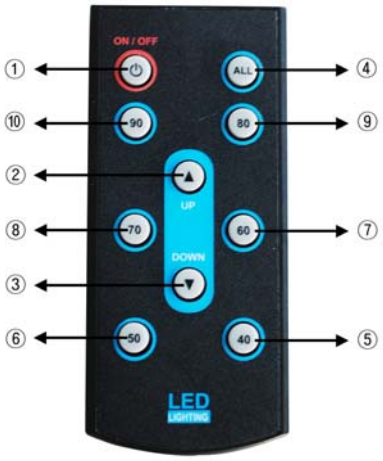


■ Install IR sensor into PSU

In case of Master, IR Sensor must be mounted as following picture.(In case of Slave, do NOT mount IR Sensor)

(3) Remote Controller

There are Dimming and ON/OFF function in the remote control unit that can adjust the brightness of lighting adapting to the weather and preventing the fatigue of eyes.



Key function

①Power On/Off

②Dimming Up

③Dimming Down

④Brightness level 100%

⑤Brightness level 40%

⑥Brightness level 50%

⑦Brightness level 60%

⑧Brightness level 70%

⑨Brightness level 80%

⑩Brightness level 90%

Remote controller working distance : 7m away from the IR sensor of LED panel

Remote controller working angle : ±30 degree

Install battery is included.

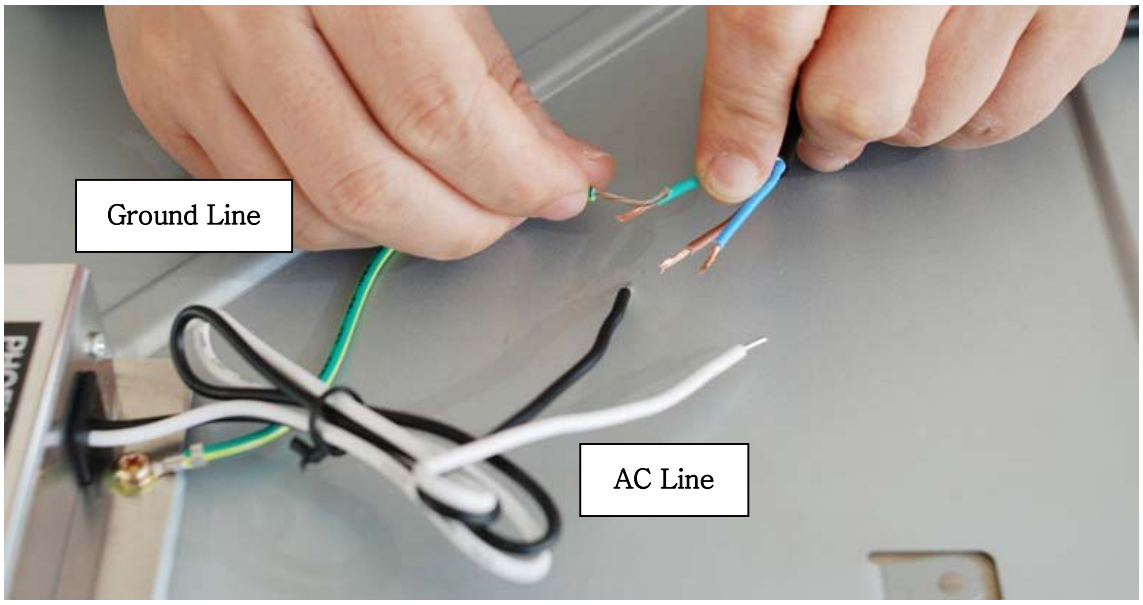
3. INSTALLATION PROCEDURE

(1) AC WIRE CONNECTION

1)The power supply to PSU of all Phoenix LED panels is free voltage covering AC100 to 240volts 50/60Hz

2)Wiring has to be done while the main power is off.

3)Wiring Procedure

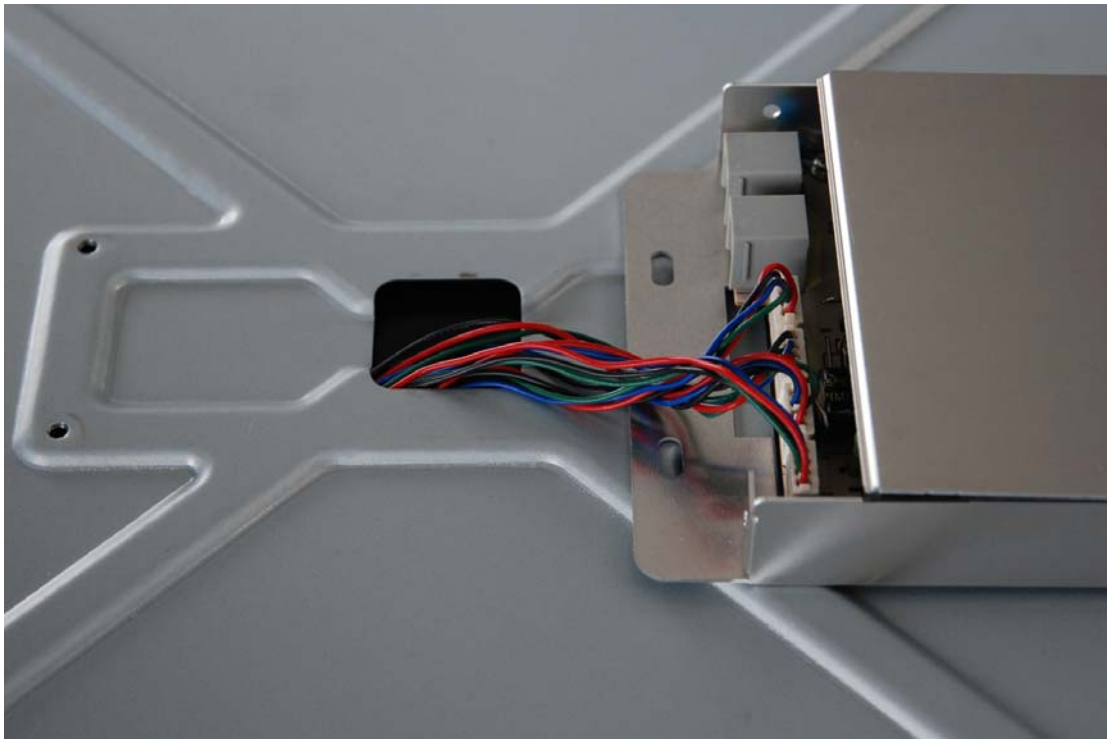


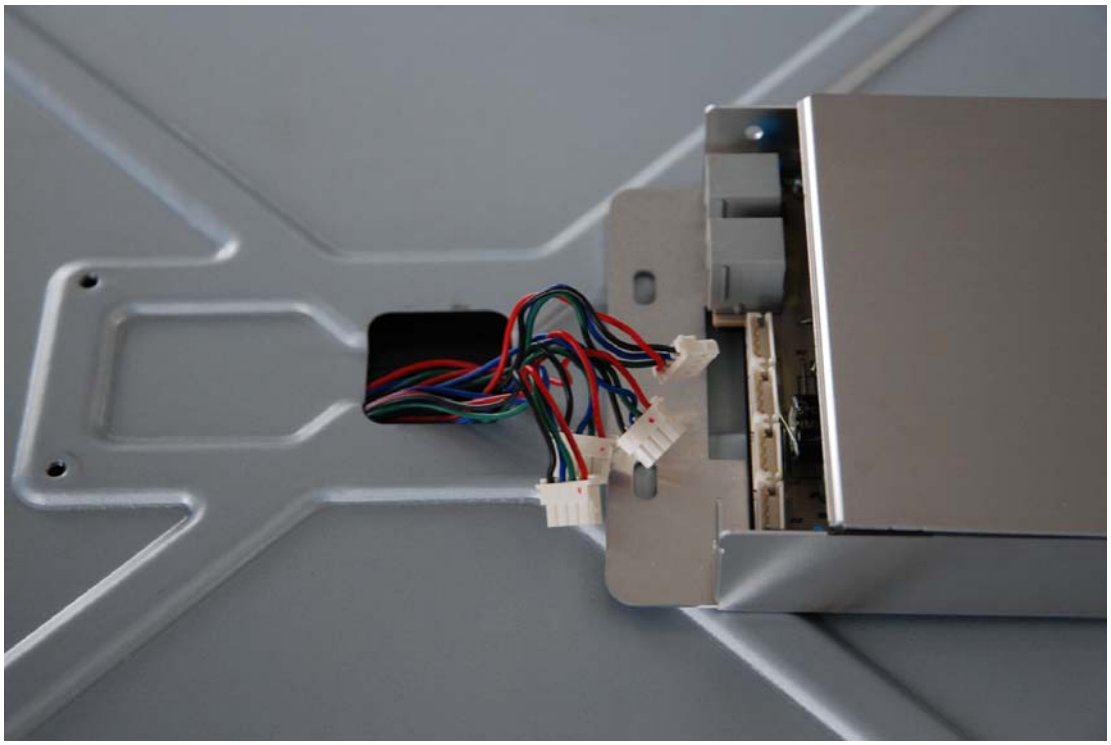
(2) Separating PSU from the panel

When you want to install the PSU(Power Supply Unit) and the LED Lighting panel separately, PSU can be connected with panel by a lead wire line between the two, and especially, it has the big advantage of creating the elegant design utilizing the narrow space efficiently.

1) Separate the PSU and panel as following pictures

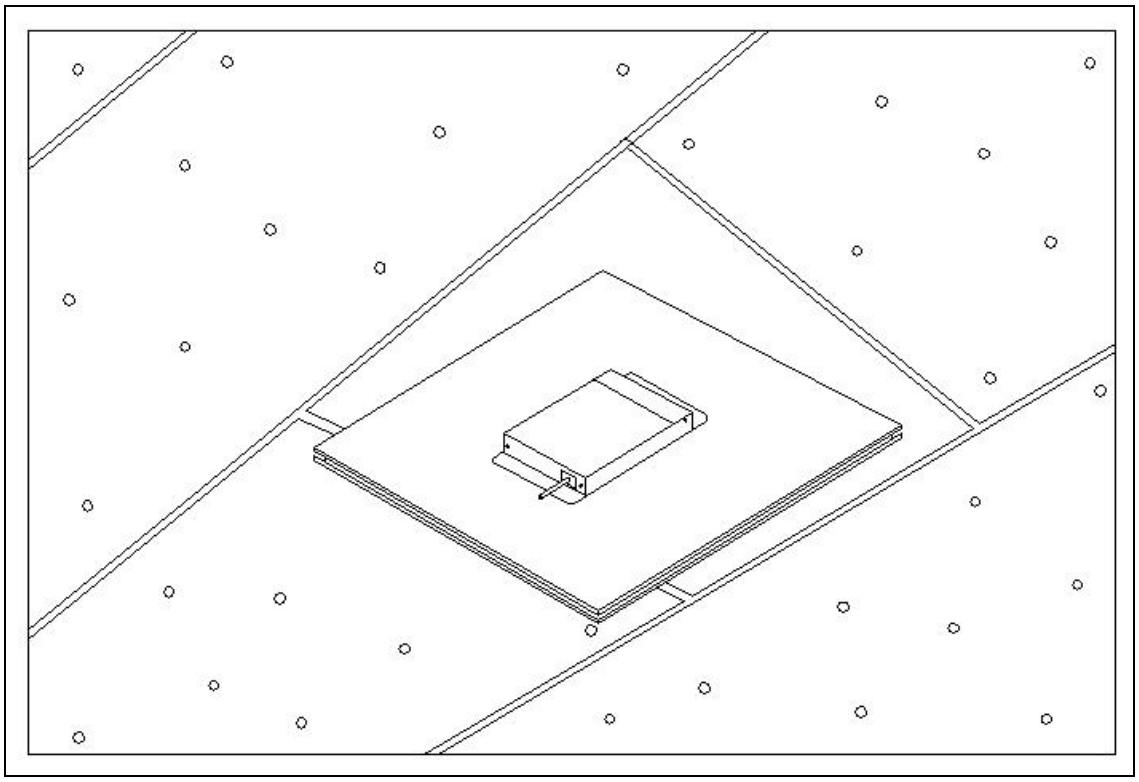
2) Make connecting lead wire lines and connect PSU and panel.



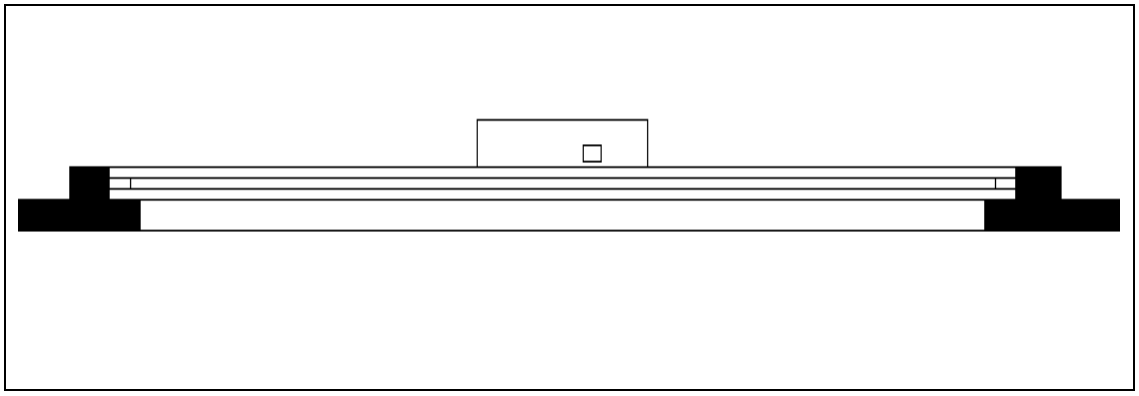


(3) How to install with T-bar, burying the panel into ceiling

1) Lift up the panel to diagonal line direction of ceiling's quadrangle.

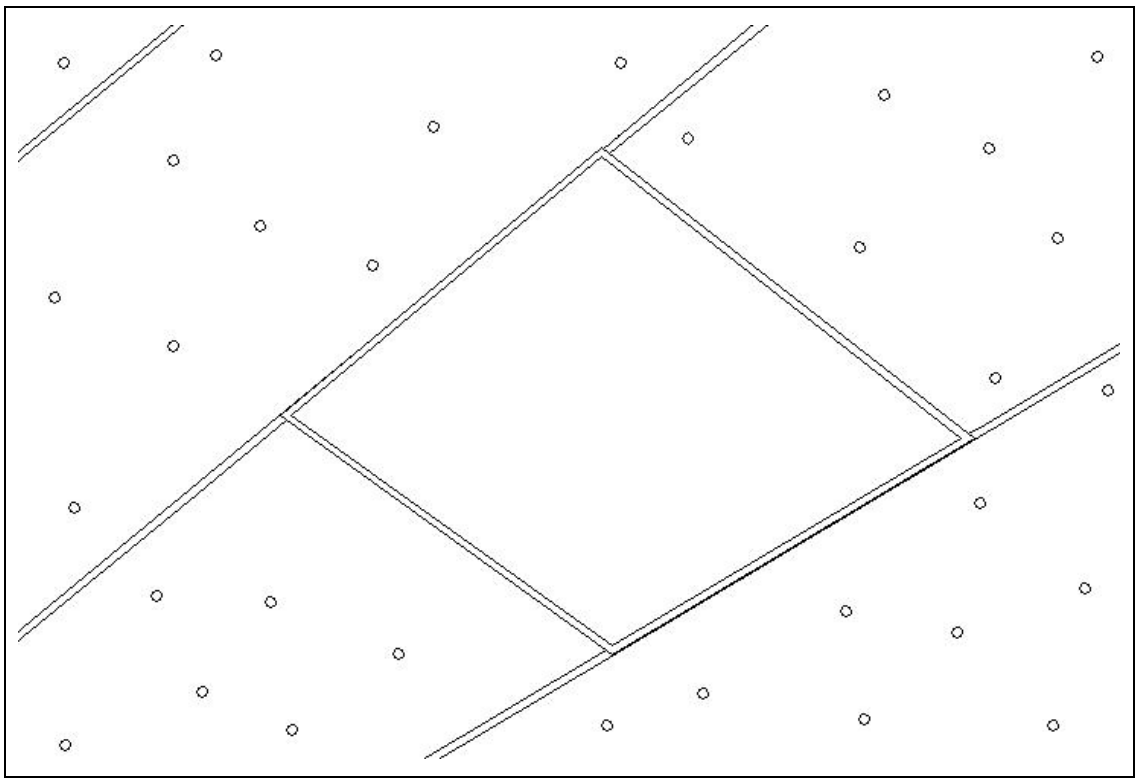


2) Mount onto T-bar of the ceiling.



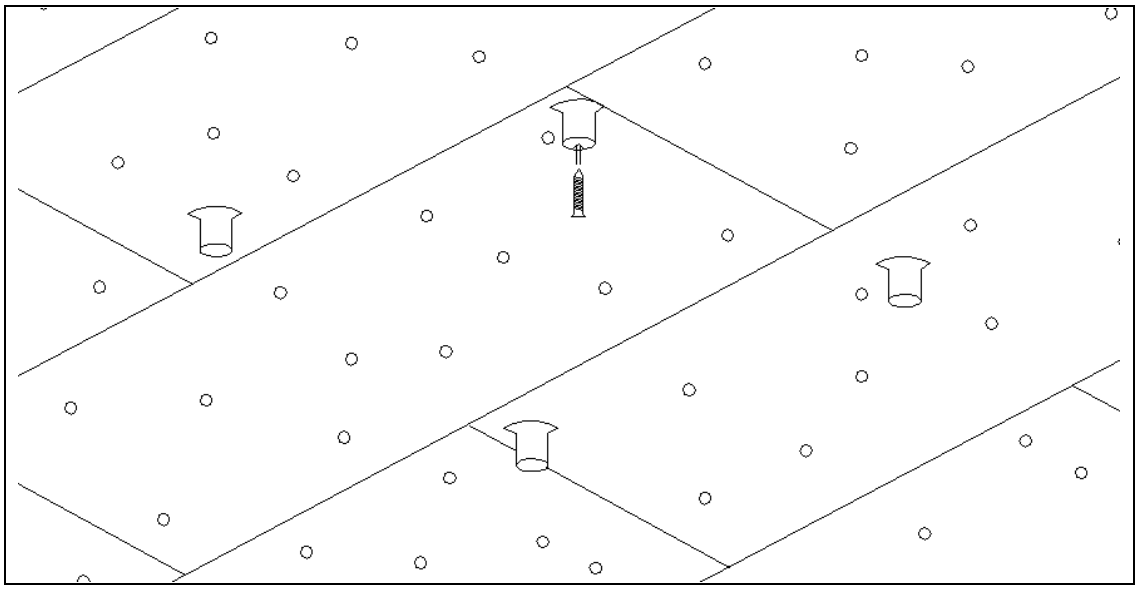
※ PSU(Power Supply Unit) Line connection refers page 10.

3) Check the lighting switching on the power.

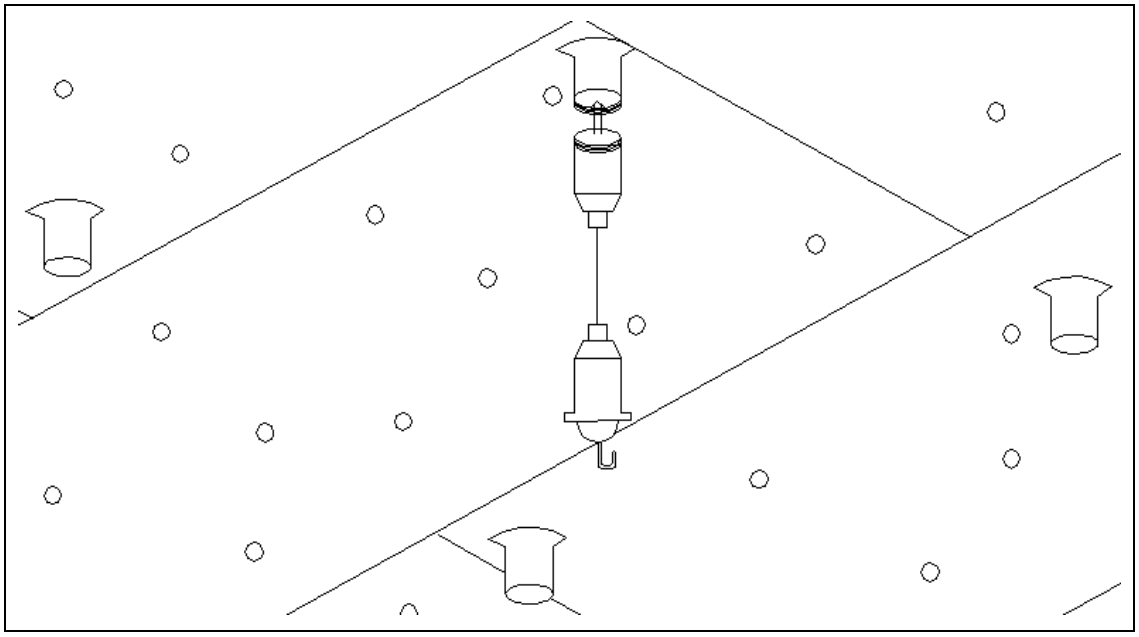


(4) Pendant Installation (wire with hook)

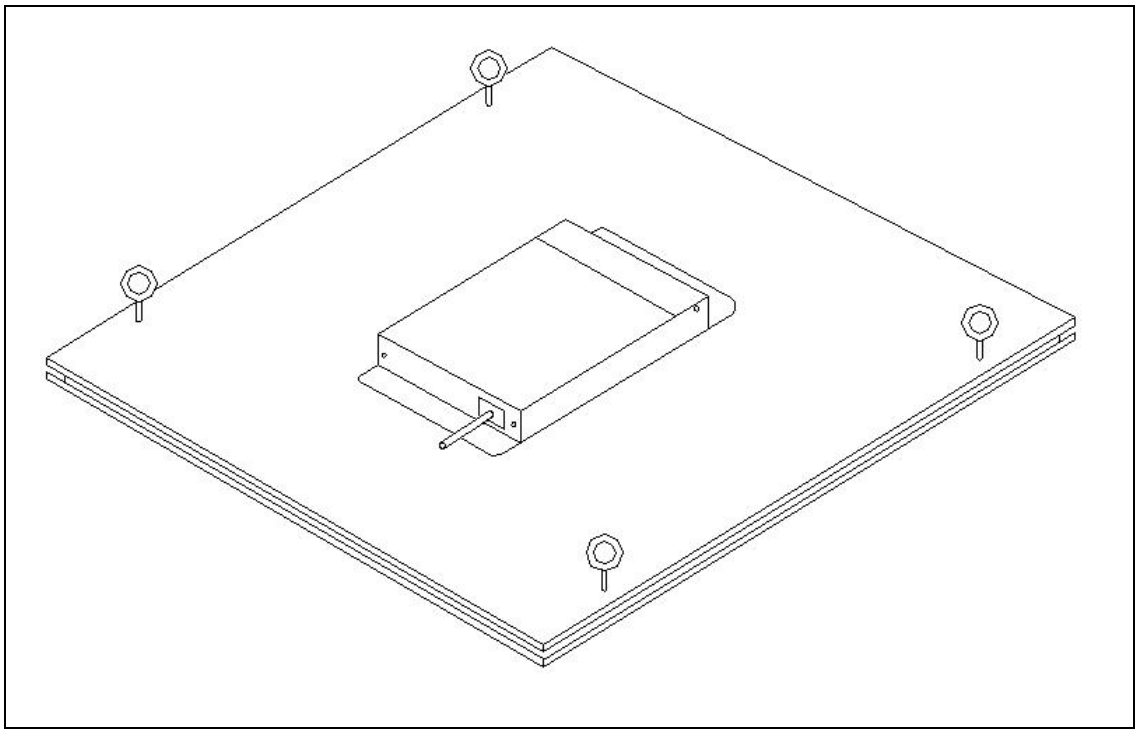
1) Fix the buttress with the screw to the ceiling that will connect the wire to the ceiling.



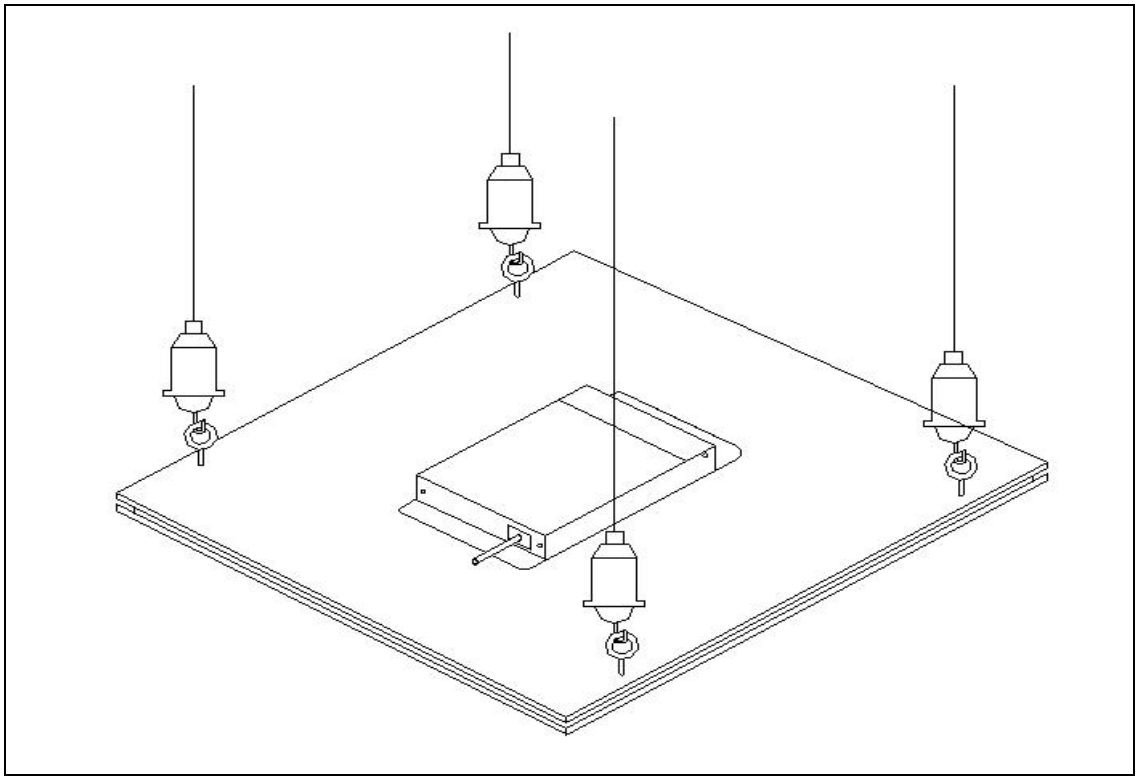
2) Connect by driving the buttress and wire.



3) Joint Eye Bolt to connecting holes of the rear side of Panel.

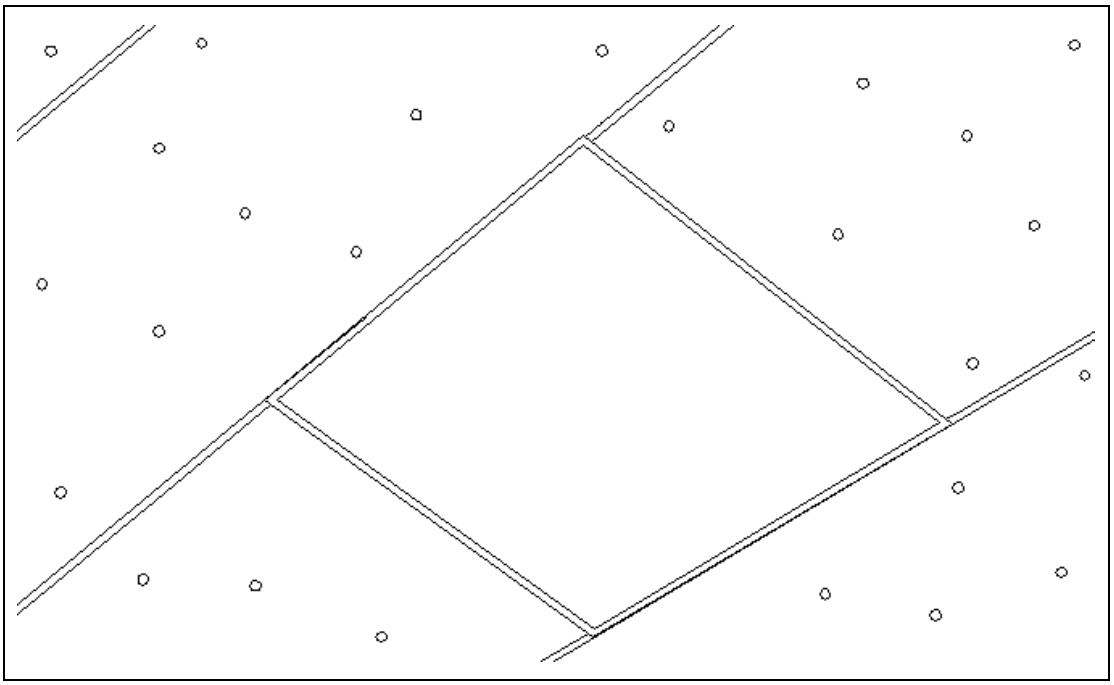


4) Connect the panel hooking to the bolt.

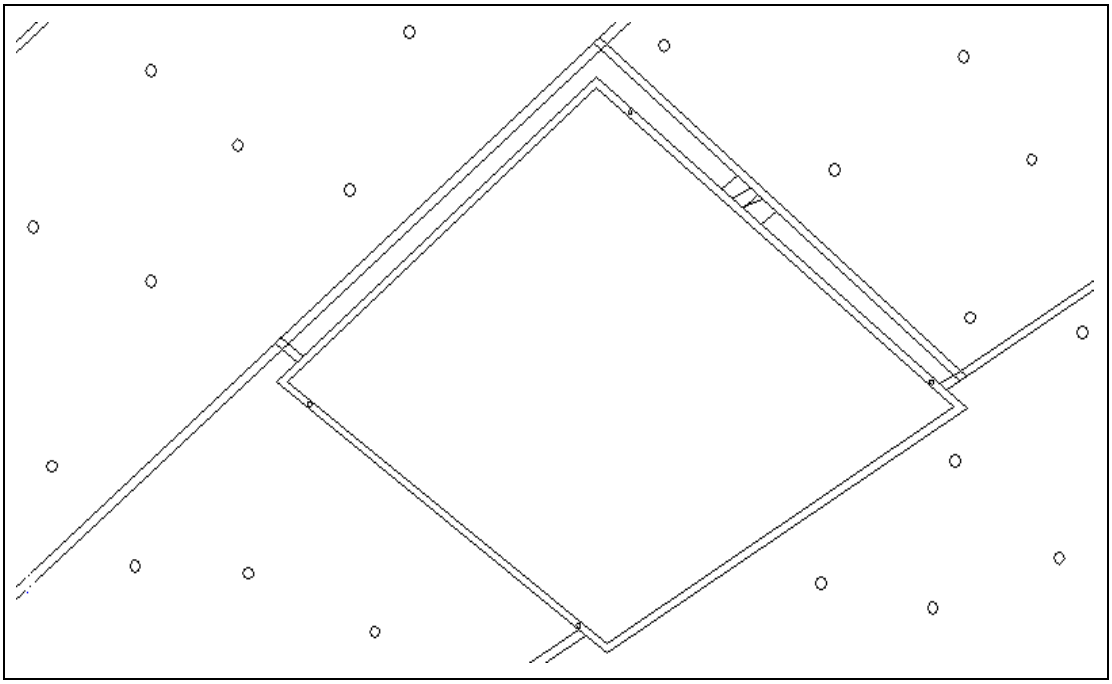


(5) Direct Installation onto ceiling

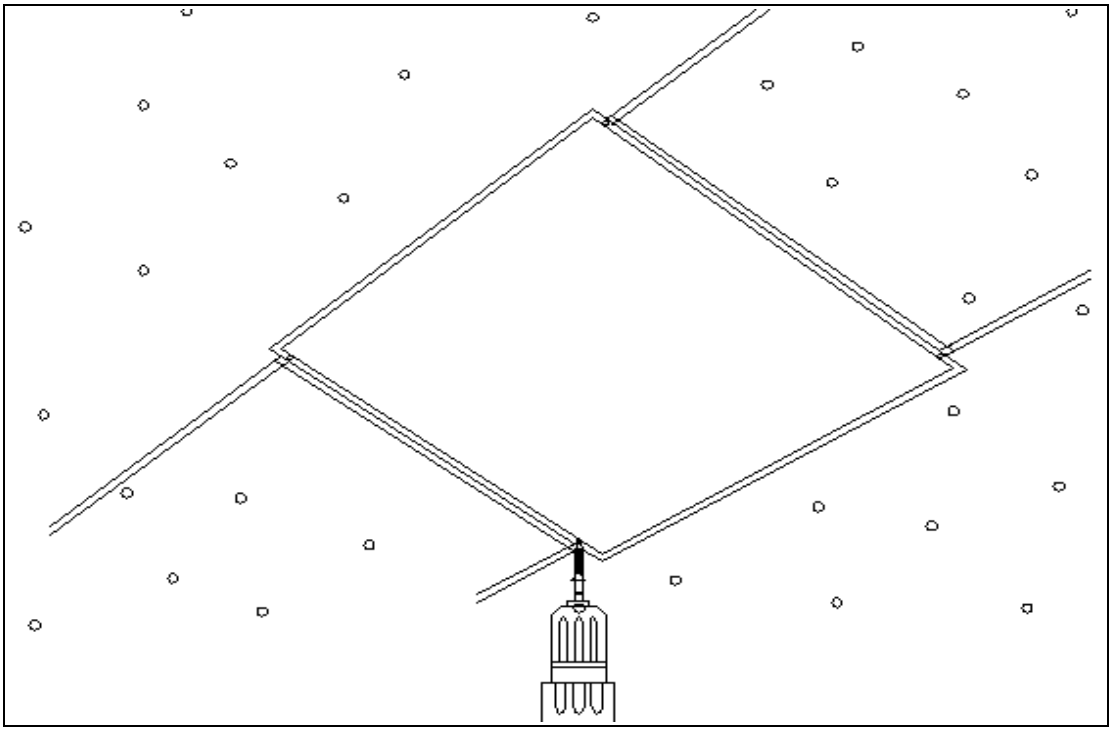
1) Make hole ceiling



2) Wiring



3) Use screws and mount panel onto the ceiling.



4. NOTICE FOR USE

※ You are asked to read this user manual with the pictures before you start to use this product

(1) Do not dismantle the product at your own discretion.

- This product requires accuracy to handle and if you dismantle at your own discretion, it may create other malfunctions.

(2) Refrain from cleaning the panel with water.

- The water cleaning can cause the failure to the electronic components and power supply unit if the product is soaked with water.

(3) This product is free voltage AC 100 ~240 volts.

(4) If the product is damaged, do not use it at all. Please contact the company you bought the product.

(5) Before using the product, eliminate the coating protection vinyl and sticker on the lighting panel and clean with a soft and clean piece of cloth.

(6) When you need go out for a long time turning on light,

- Set the dimming to the minimum or
- Turn off the light and
- Plug out from the socket.

(7) Do not shock the product or spray water.

5. TROUBLE SHOOTINGS

* Do you have any trouble?

Troubles	Check points
Does not turn on light.	Check if AC power line is properly connected or if power is switched off.
Remote controller unit does not work.	-Check batteries inside the remote controller and polarity of batteries. - Check if Phoenix is turned on or not. - Check location of IR sensor and its connection
Network does not work	- Check Dip S/W - Check IR sensor connection to master - Check connection of network cables
Flickering of the light	- Turn off the power and turn on again in 3 minutes. - If same phenomena occur, then call agencies.

* Please request after service if the trouble is not solved even with the above trouble shootings. Your own repair work or dismantling of the product may cause an electric shock. Please advise your agency following information when you ask after service.

- Model name, Place and date of your purchase
- Your name, address, telephone number
- Detail the failure exactly.