



DEEP ROOF LIGHTING INC.

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Tri-Proof Linear-Linkable Broad Line



- Wide Beam Angle: Personalized fashion design and unique appearance, Meet wide beam angle lighting demands;
- Hi-pot: Built-in aluminum heat sink, with V0 Fire-Rated PC housing, good cooling and improve safety factor, Hi-pot >5000V;
- IP65: Integral design and fully compact structure;
- Smart Sensor: Adopted most stable microwave sensor technology, achieve greatest energy saving;
- Intelligent Emergency system: Easier installation and cost saving by using Remote Control, compare to competitors' product installation time decreased 15-20mins, best choice of intelligent emergency lighting system;
- Full range of products: Emergency, Sensor, 0-10V DIM, NON-DIM, Remote-controlled dimming, etc can be flexible combination (without flickering).

Dimension

ModelNo.	L1 (mm)			L2 (mm)			W (mm)			H (mm)		
	A	B	C	A	B	C	A	B	C	A	B	C
TP-2FT-20W	600	650	600	540			94			60		
TP-3FT-25W	900	950	900	840			94			60		
TP-4FT-36W	1200	1250	1200	1140			94			60		
TP-4FT-45W	1200	1250	1200	1140			94			60		
TP-5FT-60W	1500	1550	1500	1440			94			60		
TP-8FT-70W	2400	2450	2400	2340			94			60		

ITEM CODES

LTP-L220-D(30/40/50)-D1	2 feet, 20W, up to 2800 lumen, 3/4/5K color, Dimmable 100-277 VAC, CRI >82
LTP-L220-A(30/40/50)-PS-D1	2 feet, 20W, up to 2800 lumen, 3/4/5K, Non-Dimm 100-277 VAC, Pho/Ocu Sensor
LTP-L225-(A/D)(30/40/50)-EM-D1	2 feet, 25W, up to 2800 lumen, 3/4/5K, Non-Dimm/Dimm 100-277 VAC, EM Back
LTP-L225-A(30/40/50)-PS-EM-D1	2 feet, 25W, up to 2800 lumen, 3/4/5K, Non-Dimm 100-277 VAC, Sensor + EM Back
LTP-L445-D(30/40/50)-D1	4 feet, 45W, up to 6300 lumen, 3/4/5K color, Dimmable 100-277 VAC, CRI >82
LTP-L445-A(30/40/50)-PS-D1	4 feet, 45W, up to 6300 lumen, 3/4/5K, Non-Dimm 100-277 VAC, Pho/Ocu Sensor
LTP-L445-(A/D)(30/40/50)-EM-D1	4 feet, 45W, up to 6300 lumen, 3/4/5K, Non-Dimm/Dimm 100-277 VAC, EM Back
LTP-L445-A(30/40/50)-PS-EM-D1	4 feet, 45W, up to 6300 lumen, 3/4/5K, Non-Dimm 100-277 VAC, Sensor + EM Back
LTP-L870-D(30/40/50)-D1	8 feet, 70W, up to 9800 lumen, 3/4/5K color, Dimmable 100-277 VAC, CRI >82
LTP-L870-A(30/40/50)-PS-D1	8 feet, 70W, up to 9800 lumen, 3/4/5K, Non-Dimm 100-277 VAC, Pho/Ocu Sensor
LTP-L870-(A/D)(30/40/50)-EM-D1	8 feet, 70W, up to 9800 lumen, 3/4/5K, Non-Dimm/Dimm 100-277 VAC, EM Back
LTP-L870-A(30/40/50)-PS-EM-D1	8 feet, 70W, up to 9800 lumen, 3/4/5K, Non-Dimm 100-277 VAC, Sensor + EM Back

*** Sensor fixture is non-dimm to prevent conflict, Not for dimmer setting ***

*** EM fixture can be either dimmable or non-dimm ***

LTP-L-WD-2P	2 wires of AWG #16 for non-dimm (sensor) in heat shrinkable sleeve -- Black, White
LTP-L-WDE-3P	3 wires of AWG #16 for non-dimm (EM) in heat shrinkable sleeve -- Black, White, Red
LTP-L-WD-4P	4 wires of AWG #16 for dimm in heat shrinkable sleeve -- Black, White, Purple, Gray
LTP-L-WDE-5P	5 wires of AWG #16 for dimm & EM in heat shrinkable sleeve - Black White Purple Gray Red
LTP-L-WD-2M	2 wires of AWG #16 for non-dimm (sensor) in Metal Clad pipe -- Black, White
LTP-L-WDE-3M	3 wires of AWG #16 for non-dimm (EM) in Meta Clad pipe -- Black, White, Red
LTP-L-WD-4M	4 wires of AWG #16 for dimming in Metal Clad pipe -- Black, White, Purple, Gray
LTP-L-WDE-5M	5 wires of AWG #16 for dimming and EM in Metal Clad Pipe -- Black White Purple Gray Red

*** Purple wire for + and Gray for - on 0-10 VDC dimming, Red wire for EM ***

LTP-L-SSP	Suspension Kit Package
LTP-L-RH	Remote Handset
LTP-L-RH-EM	Remote Handset for EM/Dimm
LTP-L-PG11	PG11 connector for waterproof of plastic sleeve cable
LTP-L-BKL	Mounting Buckles



(Hanging Kits)

Suspend Kit

2PCS for 2 FT
2PCS for 3 FT
2PCS for 4 FT
2PCS for 5 FT
3PCS for 6 FT
3PCS for 8 FT



(PG11 connector)

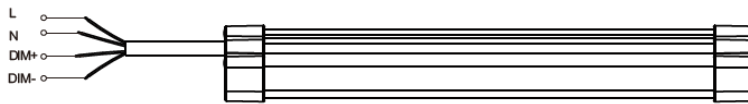


(Buckles)



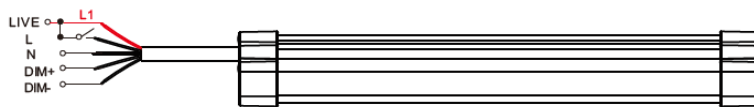
Metal Clad Pipe

Dimmable LED Tri-proof light with or without Sensor(0/1-10V).



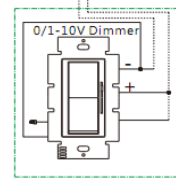
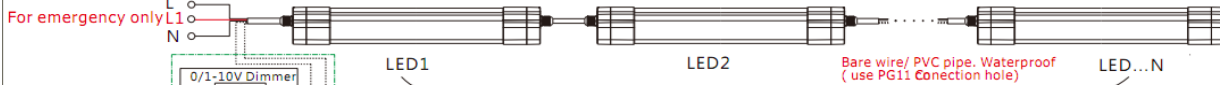
L	Brown //Black	Live wire
N	Blue//White	Neutral wire
DIM+	Purple	0/10V dimmable signal positive
DIM-	Gray	0/10V dimmable signal negative

Dimmable emergency LED Tri-proof light with or without Sensor(0/1-10V)



L1	Red/Black//Red	Emergency Driver L
L	Brown//Black	Driver L
N	Blue//White	Public Neutral wire
DIM+	Purple	0/10V dimmable signal positive
DIM-	Gray	0/10V dimmable signal negative

90V-305V



If non-dim lamps, no need reference to the dashed part.

Remark: Please check the maximum power of product internal wiring as follow (use minimum #16 line for external wiring):

- Input 120v, total power of connection in series dont exceed 960W.
- Input 230v, total power of connection in series dont exceed 1840W.
- Input 277v, total power of connection in series dont exceed 2216W.



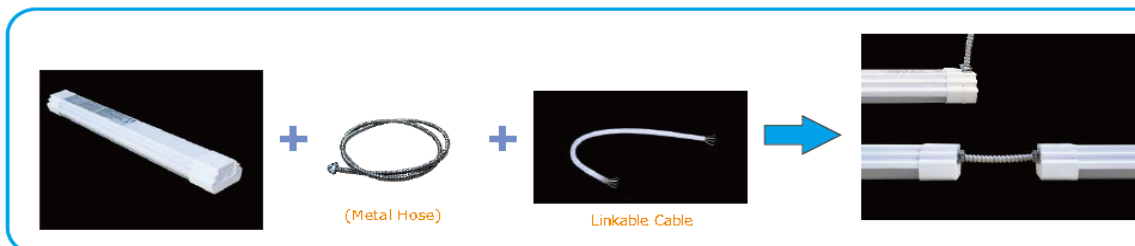
PG11 connector

⌘ Type B-- for Linkable Installation ,Side/Top wire (without Input Cable)

A) Link by cable and PG11 connector

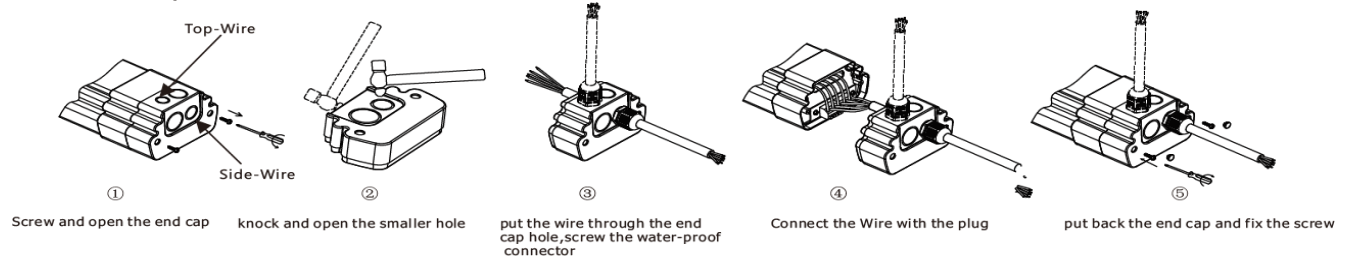


B) Link by metal clad pipe

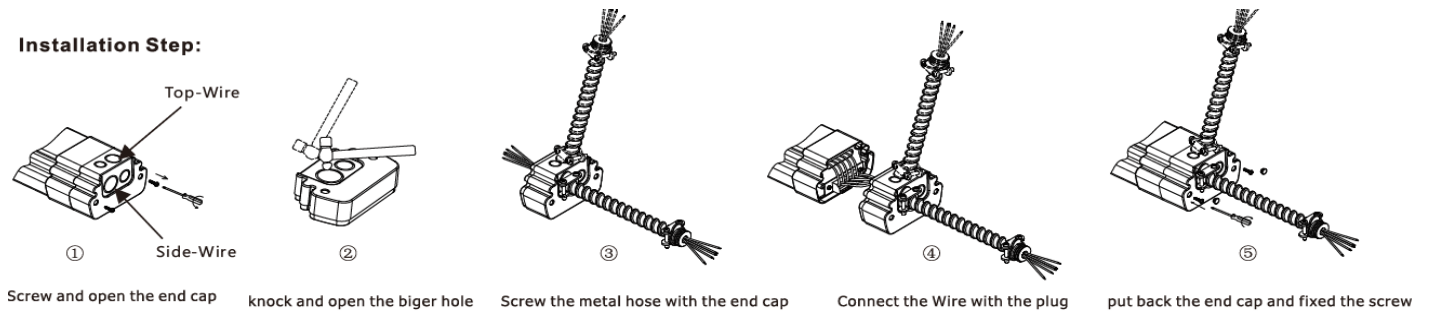




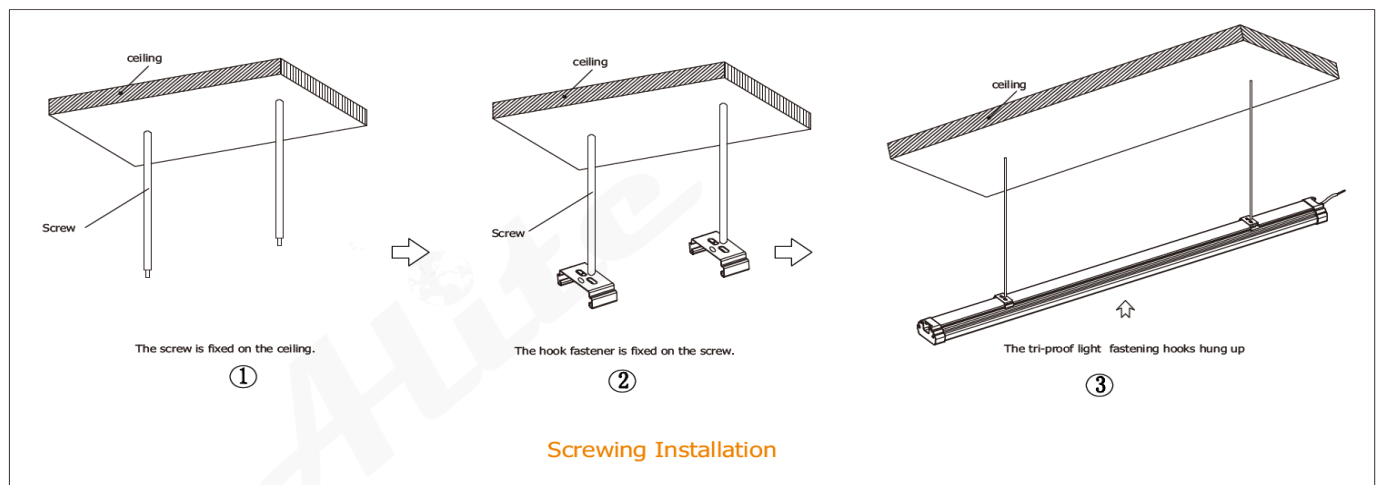
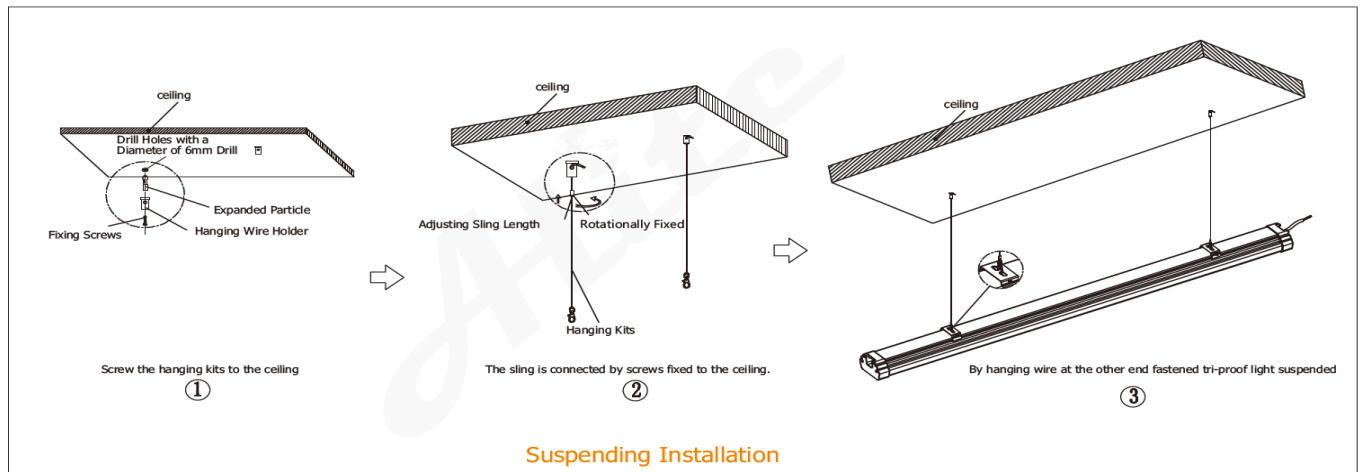
Installation Step:



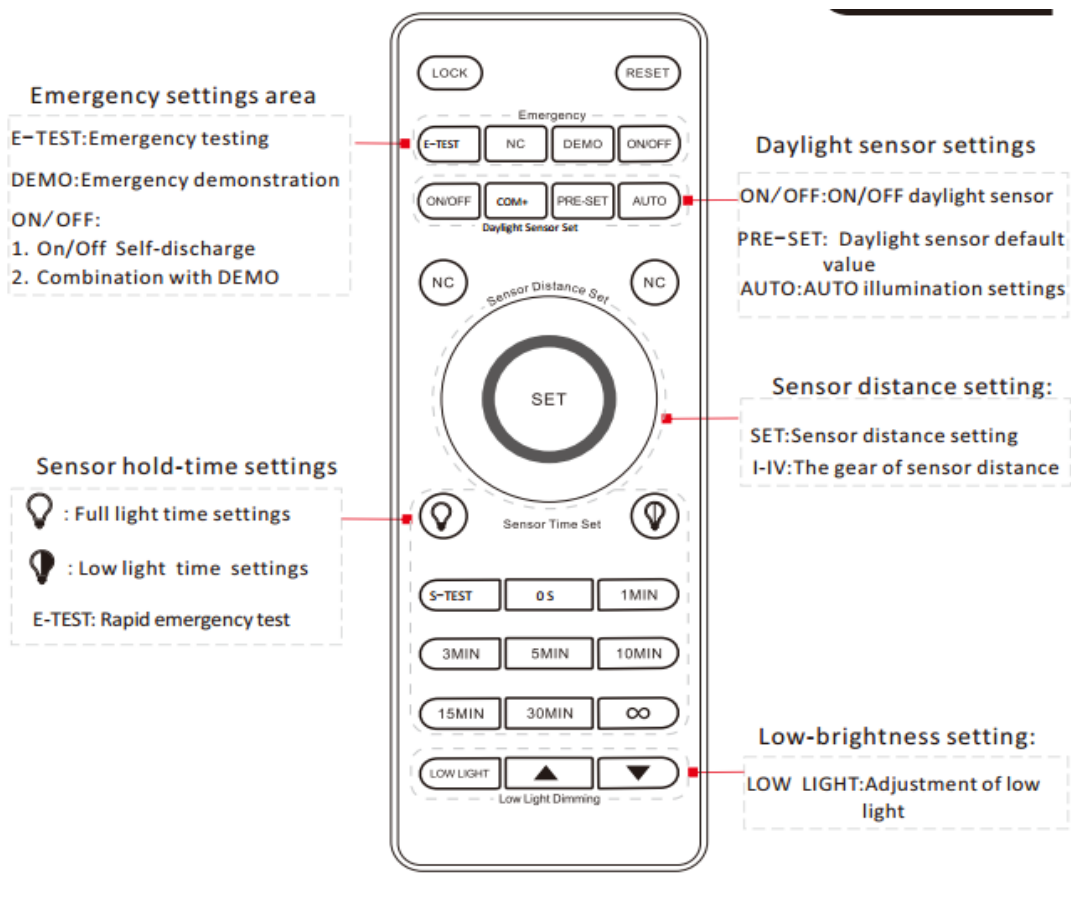
Installation Step:



Installation Modes



- This remote controller integrates with sensor and emergency testing and setting. Be sure the product has these related functions before operation.
- The emergency, full brightness hold-time, low brightness hold-time, low brightness, detection distance and daylight sensor functions can be tested and set by remote controller according to personal requires and demands.
- The trigger of daylight sensor can refer to threshold value. One remote controller is universal to the same types of products(except the customized products), and subject to the last settings. To ensure the accuracy of controller settings, one product is suggested to be set each time.



Indicator location



- Instruction for the indicators:
 - Blue indicator exists only in sensor products, indicating the signal from remote controller received.
 - Red & Green indicators exist only in emergency products. Green indicator is for charging: flash indicates under charging, when the emergency battery fully charged, the green light will stay on.
 - Red indicator is for discharging: Staying on indicates under discharging. When there is not enough power, the red indicator begin to flash, indicating the remaining power will last around 20 minutes.

—Remote Control

Button#1: TEST/+ (For Emergency: Press it ,the light fixture will become emergency state for 3 seconds and the indicator light turns Red.)
(For Dimming by Remote Control: Press it, will increase the brightness of the fixture and the indicator light will flash.)

Button#2: DEMO/- (For Emergency: Press it and the ON/OFF button on normal working status, will start Emergency DEMO function. Press it and the ON/OFF button again, will close the Emergency DEMO function.)
(For Dimming by Remote Control: Press it,will decrease the brightness of the fixture and the indicator light will flash)

Button#3: ON/OFF (For Emergency: Press it for 3s on normal working status, the indicator light turns Red and keep flash, will start the every three months automatic discharge function. And Press it for 3s again, the indicator light turns Red and flash once, will close the every three months automatic discharge function; Standard setting of this function is closed)
(For Dimming by Remote Control: Press it, the dimming function will ON or OFF. When OFF it is equal to Standby State, the light is off and the indicator light is always on).

-Remote control for sensor(Figure 2), Operation please refer to the instructions of remote control.

- Daylight sensor: it will be turn on when the ambient illumination below pre-set value (Factory setting is 15lux), the ambient illumination value can be re-set by remote control, the function also can be trun off.
- Sensor Distance Set: The distance of moving object detected by lamp, factory setting is " I " (about 5M),
" I ~ IV "optional ("IV" is about 10M).
- Low Light Dimming : Brightness setting in the process of low lighting after full lighting maintain time over, factory setting is 10% brightness.
- Full light time setting(☾): 1 minute -30 minutes maintain time optional after no motion detected.
- low light time setting(☾): 0S- ∞ optional maintain time optional after no motion detected.

—Emergency

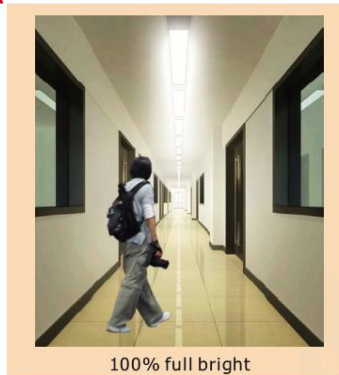
- High Temp. Ni-MH battery, the highest charging temp. is up to 70°C. Smaller in size, longer lifetime, safer in practical use, RoHS compliant;
- The nickel-metal hydride batteries can be repeated 500 charge-discharge cycles by correct operation, If use emergency function once a week, the lifetime can be up to 8~10 years;
- After leaving factory,the emergency battery turns itself into a dormant state to avoid electric discharge and leakage;
- To ensure battery lifetime, this emergency product is designed to have a trimonthly charge and discharge cycle.Users can close/start this fuction by remote control,details please refer to remote control function instructions.(Factory settings:automatic discharge fuction is "start" status;)
- The battery charge cycle is 24hrs. With dual protection of voltage detection and charging time detection, the battery could be prevented effectively overcharge and overdischarge, once any of the protections is triggered, circuit will automatically switch to an intermittent charge.
- Emergency lighting driver employs more advanced electronic relay,convert emergency in 200ms, that is two times faster than traditional coil relay to switch;
- Please make a emergency test every month for the lamp with Emergency backup. Operation: press the TEST button of wireless controller, if the lamp can switch to the battery powered , then the emergency backup is working.
- Conform to the safety requirements and Emergency products must ensure that the function of the emergency regulations,adopt wireless IR remote to control,without any external button and lead,savings in wiring and maintenance costs .(Picture 4)

Function Instructions

--Sensor

- Microwave sensor, detecting area 5-10M.
- gent sensor can be set to A,B,C three working models by remote control

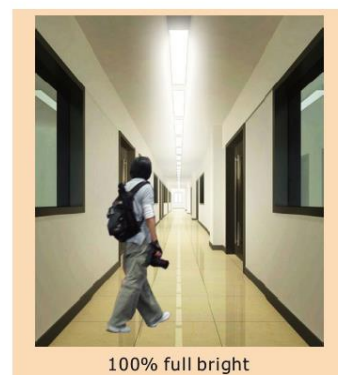
A



No movement detected while full light maintenance time.



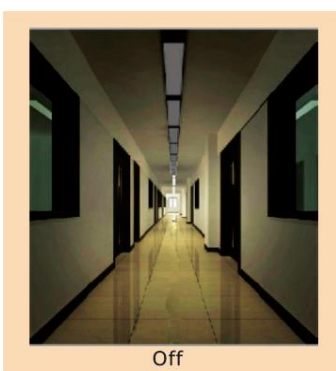
Detection of Movement



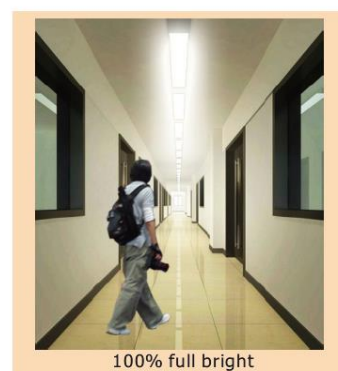
B



No movement detected while full light maintenance time.



Detection of Movement



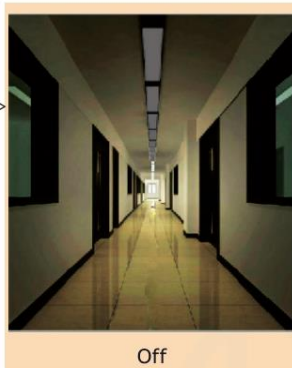
C



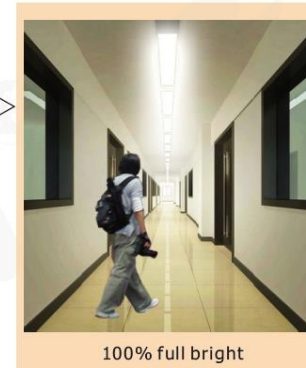
No movement detected while full light maintenance time.



No movement detected while Low light hold time

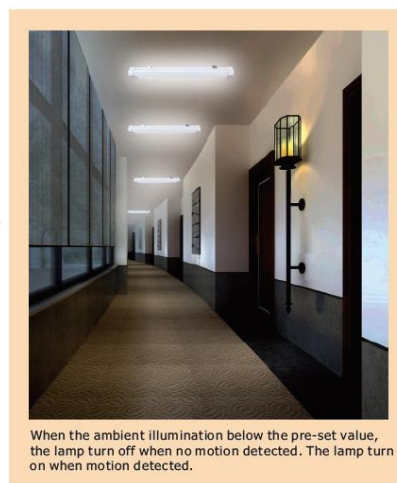
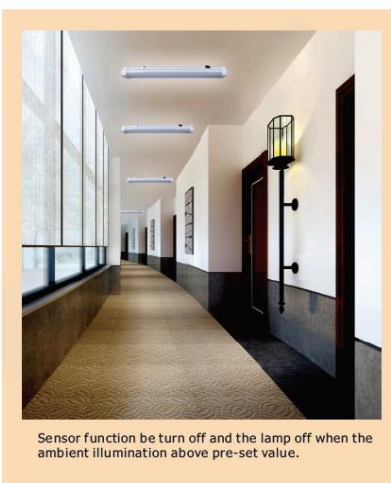
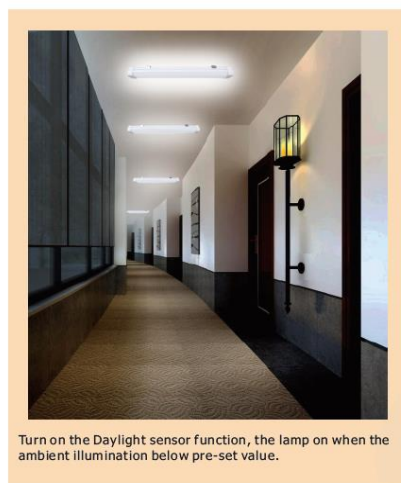


Detection of Movement



—Daylight Sensor

- Sensor function will be turn off when the ambient illumination above pre-set value (Factory setting is 15lux)





(Picture 2)

Functions

【LOCK】 Remote controller locking key. To avoid the faulty operation, the controller will be self-locked without operation in 25s.

Press the 【LOCK】 for 3s before using, the brightness of lamp will be changed, which indicates unlocking successfully.

【RESET】 Factory setting key, press it for 3s, all setting parameters will be reset to default (refer to the following).

 (Full light time)	 (Low light time)	Low Light	Sensor Distance	Daylight Sensor
3min	5min	10%	III	✗

—Emergency— All the keys in this area are not restricted by the 【LOCK】 key.

【E-TEST】 Press it, the lamp will go into emergency status, and the emergency indicator turns red, then gets back to normal status after 3s, which indicates emergency function is normal.

【NC】 Alternate key

【DEMO】 Press it in normal working status, then press 【ON/OFF】 , will start emergency demonstration function. Repeat this operation, will close it.

⚠ When power off, and the lamp goes into emergency status automatically, if you press 【DEMO】 + 【ON/OFF】 , will get into status of dormancy, need to be activated after the power on. End users are not suggested to use.

【ON/OFF】 1.Coordinate with 【DEMO】 key.

2.Press it for 5s in normal working status, the indicator turns red and keeps flashing for 5s,will start the every three months automatic discharge function. And press it for 3s again, the indicator turns red and flashes once, will close the every three months automatic discharge function; Factory setting is closed. (Start the discharge function can lengthen the battery's lifetime).

—Daylight Sensor Set—

This area is for on/ off of daylight sensor function,factory settings is off status.

- Press 【ON/OFF】 for 3s to start daylight sensor function, the light flashes 3 times (blue indicator flashes 3 times at same time) indicating daylight sensor starts working; Repeat this operation, the light flashes 3 times (blue indicator flashes 10 times at same time), indicating daylight sensor is closed.
- When the daylight sensor is started, the ambient illumination is less than 15lux (default).Users can define the Real-time illumination as threshold value per requires. For example, press 【COM+】 , the indicator flashes 1 time, indicating command is received. Then press 【AUTO】 , the lamp shuts down instantly for 1-3 seconds, the ambient illumination value will be identified and preserved as the threshold value of daylight sensor. When ambient illumination value is lower than setting value, the lamp starts working automatically.
- When user need to reset the threshold value (15lux), press 【COM+】 , the light flashes 3 times (blue indicator flash 1 time at same time), then press 【PRE-SET】 ,the light flashes 3 times (blue indicator flashes 3 times at same time), indicating command is received. When microwave sensor and daylight sensor start up at the same time, it has to meet the trigger conditions of microwave sensor and daylight sensor, then the lamp will start working.

PS : 1.When daylight sensor and motion sensor in working status, lamp will be turn on/off once meet both trigger conditions. For example, daylight sensor is in working status, if the ambient illumination is lower then threshold value, lamp will be turn on when detected the movement; If the ambient illumination is higher then threshold value, lamp will be turn off when detected the movement and finished the whole motion sensor mode period.

2.When the low light hold time is 【 ∞ 】 , the threshold value cannot be set because the ambient illumination values cannot be identified in the lamp off status, AUTO setting is invalid.

3.When the full light hold time is 【 ∞ 】 , both motion sensor and daylight is invalid.

—Sensor Distance Set—

Sensor Distance Set: The detective distance of moving object, factory setting is III (about 8M), I-IV optional (Max 10M).

- Press **【SET】**, **the light flashes 3 times** (blue indicator flashes 1 time **at same time**) for receiving the command, then press **【I】 【II】 【III】 【IV】** as you need, the indicator flashes 3 times for successful setting, those stand for 40%, 60%, 80% and 100% of the max detective distance.

—Sensor Time Set —



Full light time: Holding time of full light after no movement detected.



Low light time: Holding time of low light after full light time.

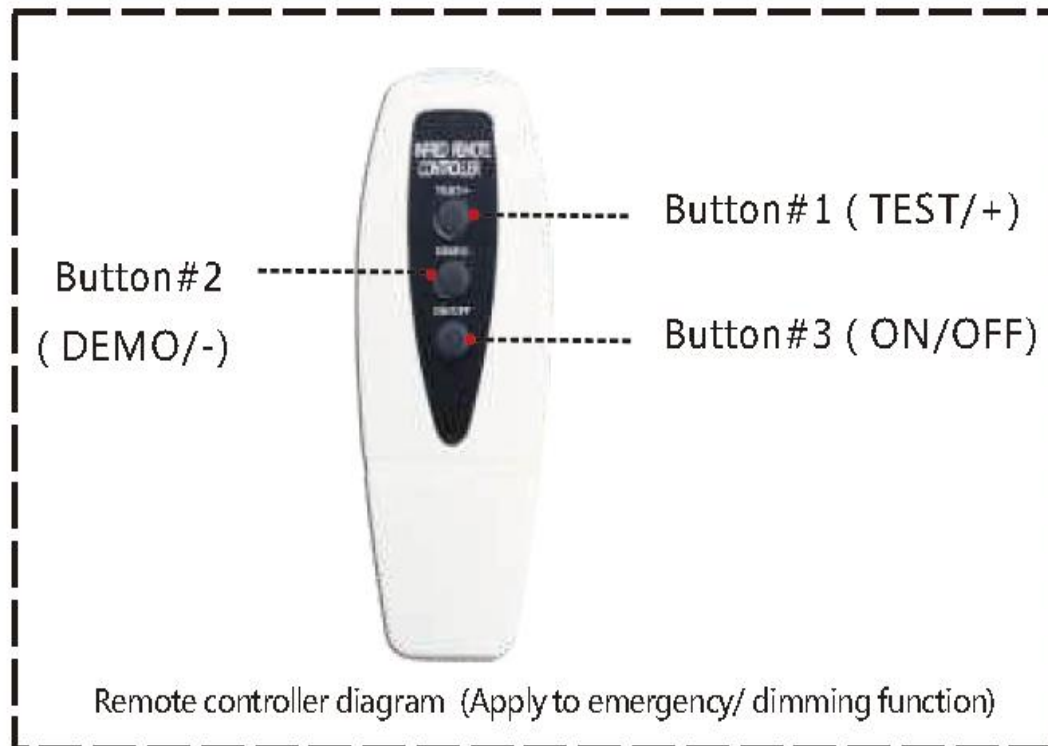
- Full light time Setting: Press **【💡】**, **the light flashes 3 times** (blue indicator flashes 1 time **at same time**) for receiving the command, then press the keys with correspondent time needed, **the light flashes 3 times** (blue indicator flashes 3 times **at same time**) for successful setting, optional times: 1min, 3min, 5min, 10min, 15min, 30min. **【∞】**; When select **【∞】**, indicating sensor function is closed, the lamp will light on all the time. **【S-TEST】 【0 S】** will not work.
- Low light time setting, Press **【💡】**, **the light flashes 3 times** (blue indicator light flashes 1 time **at same time**) for receiving the command. Then press the keys with correspondent time needed, **the light flashes 3 times** (blue indicator flashes 3 times **at same time**) for successful setting, optional times: 0S, 1min, 3min, 5min, 10min, 15min, 30min. **【∞】**; When select **【0S】**, indicating the lamp will be 100% full light → off, the whole lamp will turn to standby mode without detecting movement after the full light duration and till to be activated again; When select **【∞】**, indicating the lamp will be 100% full light → low light, no hold-time any more, the lamp will turn to low light mode without detecting movement after the full light duration and till to be activated again. **【S-TEST】** will not work under this mode.
- **【S-TEST】** Sensor function quick test key for adjusting and experience when installed, save waiting time. Press this key, the lamp will work for a sensor working cycle. (Under testing mode, the full light hold time and low light hold time are only 5 seconds. At any time users can use this key to view the sensor effect. This key can be used repeatedly without changing the set hold time.)

—Low Light Dimming—

Low light: After Hold time of 100% full light, turn to low light status, the factory settings is 10%.

- Press **【LOW LIGHT】**, **the light flashes 3 times** (blue indicator flashes 1 time **at same time**) for receiving the command, then press **【▲】 【▼】** to adjust the brightness, the lamp indicator will flash all the time when adjust the brightness, adjustable range from 5% to 70%, each adjustment is around 2.5% brightness.

Remote handset for EM and dimming only:



Button#1: TEST/+ (For Emergency: Press it ,the light fixture will become emergency state for 3 seconds and the indicator light turns Red.)
(For Dimming by Remote Control: Press it, will increase the brightness of the fixture and the indicator light will flash.)

Button#2: DEMO/- (For Emergency: Press it and the ON/OFF button on normal working status, will start Emergency DEMO function. Press it and the ON/OFF button again, will close the Emergency DEMO function.)
(For Dimming by Remote Control: Press it,will decrease the brightness of the fixture and the indicator light will flash)

Button#3: ON/OFF (For Emergency: Press it for 3s on normal working status, the indicator light turns Red and keep flash, will start the every three months automatic discharge function. And Press it for 3s again, the indicator light turns Red and flash once, will close the every three months automatic discharge function; Standard setting of this function is closed)
(For Dimming by Remote Control: Press it, the dimming function will ON or OFF. When OFF it is equal to Standby State, the light is off and the indicator light is always on).