LUMISSION
Luminaires with a mission
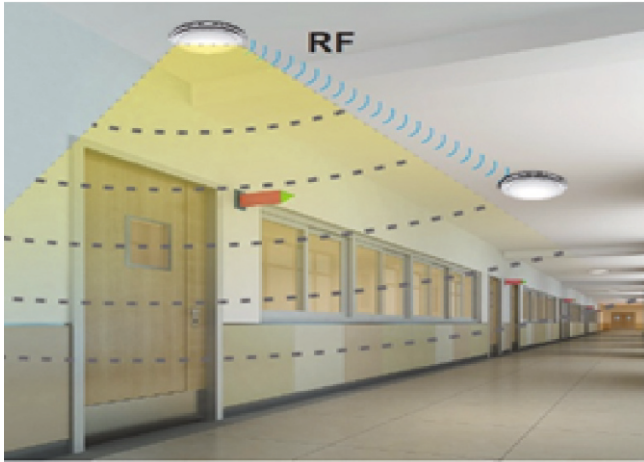
Upload Adjustable Sensor Range

Sensor   Remote

Stand-by dimming level	Master-slave control	2.4G mesh networking	RF Remote Setting	Detection area	On/Off control	Hold time	Daylight threshold

Manual IR Remote Controler

All   Grouping   Select
1 2 3 4
5 6 7 8
Sync   Reset
Min ⏻ Max

Motion Sensor
Enable   Disable
Distance
Near | Medium | Far
Ambient Light Sensor
Off | Dusk | Night
Time Until Standby
30 Sec | 3 Min | 10 Min
Standby Brightness
Off | 10% | 30%

6100001

Introduction

Upload adj.sens ceiling light adopts new master-slave concept which combines 5.8G microwave sensor with 2.4G RTT. The self-developed wireless networking and inductive control technology can penetrate non-metallic objects such as plastics and glass to detect motion of objects .The parameters of the lamp can be set one to one through IR remote without code matching . With RF MESH function, the sensor status, detective range, hold time, brightness etc can be synchronize to the lamps in the same group. Each lamp can be grouped to 1-8 at the same time, which ensure easier control and more widely application.

Features

1. AC100-240V 50Hz/60Hz input.
2. PWM control all signals, 8 levels for dimming.
3. Detective range, hold time, ambient light status, stand-by brightness can be adjusted by remote.
4. With RF MESH function, remote control for grouping and parameters-synchronization.
5. Built-in daylight sensor for effective ambient lux recognition.
6. One to one remote control grouping without code matching.Free group setting from Group 1-8.
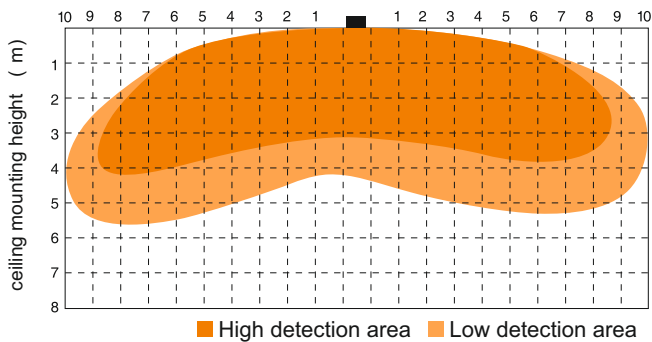
Application Areas

It is suitable for shop, supermarket, stairway, car park, restroom, warehouse etc.
Noted: Installation height should be less than 3m, application area should keep away from strong interference sources such as routers, telecommunications base stations, heavy equipment, electrical machinery, metal sheets and metal pipes to avoid misusing.
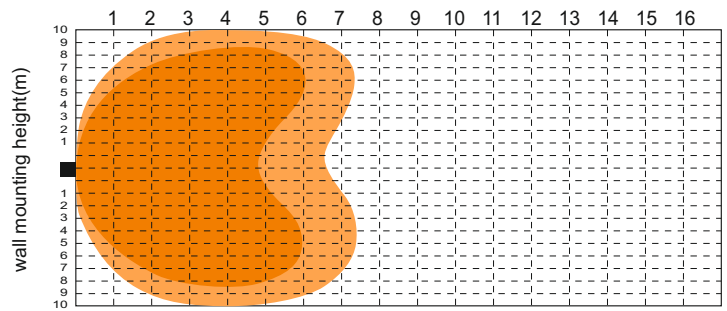
Detection Range Diagram

Ceiling Mounting pattern (Unit: m)

High detection area | Low detection area

Ceiling Mounted
Height of installation 3m

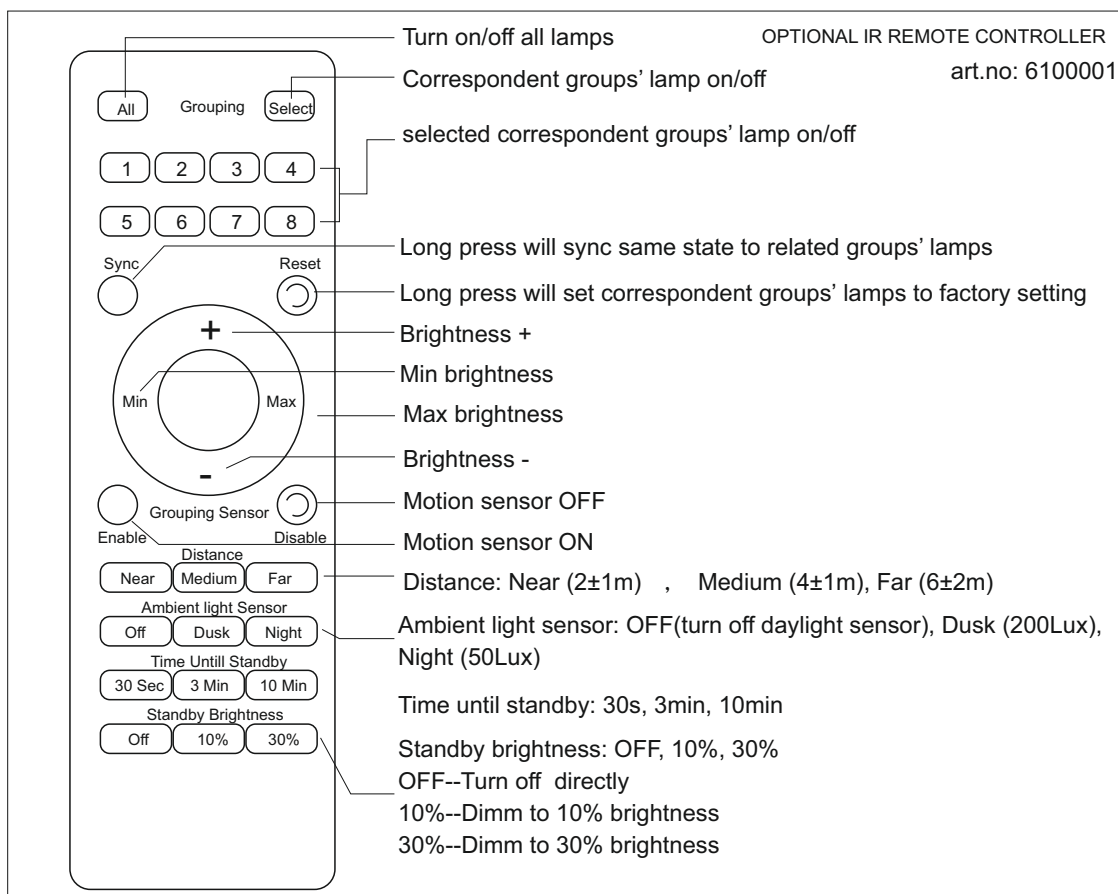### Wall Mounting pattern (Unit: m)

Wall Mounted
Height of installation 1.5m

Remote control parameters (Optional)

Model	RCIR-3101
Material	Plastic case + silica gel buttor
Remote distance	<10m
Power	2pc AAA battery
Size	L140*W45*H18mm

Default setting

Motion sensor	Enable
Brightness	Max
Distance	Near
Daylight-Sensor	Off
Time	30S
Standby Brightness	Off

OPTIONAL IR REMOTE CONTROLLER
art.no: 6100001

Turn on/off all lamps

Correspondent groups' lamp on/off

selected correspondent groups' lamp on/off

Long press will sync same state to related groups' lamps

Long press will set correspondent groups' lamps to factory setting

Brightness +

Min brightness

Max brightness

Brightness -

Motion sensor OFF

Motion sensor ON

Distance: Near (2±1m) , Medium (4±1m), Far (6±2m)

Ambient light sensor: OFF(turn off daylight sensor), Dusk (200Lux), Night (50Lux)

Time until standby: 30s, 3min, 10min

Standby brightness: OFF, 10%, 30%
OFF--Turn off directly
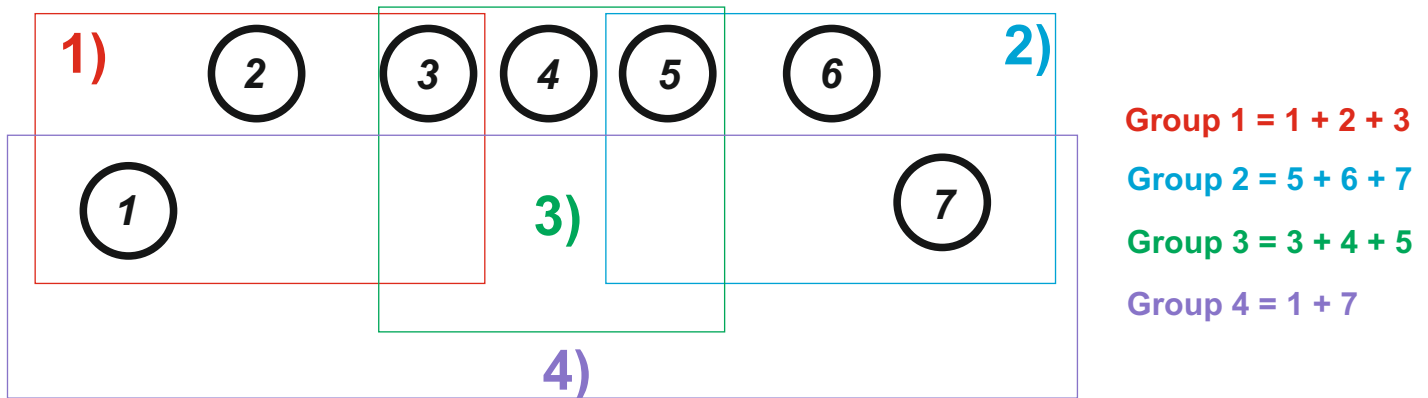10%--Dimm to 10% brightness
30%--Dimm to 30% brightness

Group synchronization function

• Press "All" to select all the groups . The settled parameters can be synchronized to all groups by long pressing "Sync" within 5 seconds after press "All".
• Press "Select" to choose related groups. The settled parameters can be synchronized to related groups by long pressing "Sync" within 5 seconds after press "Select".
• Press "1-8" to set a group. The settled parameters can be synchronized to the lamps in same group by long pressing "Sync" within 5 seconds after press "1-8".
• The lamps will flash or under "on/off" status to indicate the signal has been received successfully.
• After the single lamp been settled, long press "Sync" to keep the parameters.

RF mesh

One lamp can be set in multiple groups, for example:
Point the remote to each lamp and press the desired group number(s) accordingly.

Group 1 = 1 + 2 + 3

Group 2 = 5 + 6 + 7

Group 3 = 3 + 4 + 5

Group 4 = 1 + 7

Remarks

Due to the reception and transmission of the signal between lamp groups, the greater number of lamps, the greater overloading of the signal, which will cause some lamps to be disconnected. For the unconnected lamp, re-power it or use the remote control to reset it.

Try to avoid pressing the "Sync" button continuously and quickly. The interval operation time should be adjusted according to the number of lights. The interval operation time should be "number of lights*2S", for example (4s for 2 lights, 20s for 10 lights) .
Suggest to press "Sync" to realize synchronization after all the parameters are set.

Dimming function

Brightness button "+" "-" can adjust the lamp brightness, when press "Max", brightness will be adjusted to maximum, meanwhile, when press "Min", brightness will be adjusted to Minimum. There are eight brightness levels, details as following table:

Level	1	2	3	4	5	6	7	8
Duty ratio	12.5%	25%	37.5%	50%	62.5%	75%	87.5%	100%

Motion sensor "Enable" and "Disable"

When press "Motion Sensor Enable" button, Sensor function will be turned on; When press "Motion Sensor Disable" button, Sensor function will be turned off.

Detective range

Near=2±1m   Medium=4±1m   Far=6±2m

Remark: The detective range is measured by human body whose stature is around 1.6-1.7m with medium size and traveling speed is around 1.0-1.5m per second. If the stature, bodily form and traveling speed are changed, then the detective range will be changed accordingly. Metal with large area has a great influence on the sensitive distance, this distance value is for reference only.

Attention: Please adjust the lamp sensitivity to the appropriate level. Do not adjust lamp sensitivity to the maximum, or it will detect small movements easily which caused by wind blowing, leaves, small animals, power grid such interference objects and work improperly. If products work improperly, please lower the sensitivity and test again.

Daylight Lux

OFF=Daylight sensor "off " Dusk=100Lux (50-150Lux) Night=50Lux (30-80Lux)
Note: Daylight Lux can be affected by lamp shade and other elements, the small tolerance is normal.

Hold time

Three levels: 30s, 3min, 10min
Note: After the lamp is turned off, there will be a blocking time for 4-10 seconds. During this time, the sensor will not work. After this time, sensor will keep working, the light will be on after movement been detected. When the lamp detect the movement and then the lamp turns on, it will have another blocking time for 4-10 seconds. At this time, 2.4G wireless communication will not receive or send signal repeatedly.

Standby brightness

OFF: The lamp will go down to 50% of the settled Max brightness when there is no detection within hold time, and will turn off automatically after 30s hold time.

10%: The lamp will go down to 50% of the settled Max brightness when there is no detection within hold time, then it will go to 10% brightness after 30s hold time and will keep this brightness if with no detection.

30%: The lamp will go down to 50% of the settled Max brightness when there is no detection within hold time, then it will go to 30% brightness after 30s hold time and will keep this brightness if with no detection.

Remark: 1) 10% 30% standby brightness means the percentage of rated power for whole lamp.

2) If standby brightness ≥50% of the settled Max brightness, the second stage brightness and hold time will be turned off.

3) If standby brightness ≥ settled Max brightness, the lamp will keep the settled Max brightness.

4) If the settled brightness is less than Min brightness(12.5%), the output will always keep 12.5%.

5) If Max brightness is 12.5%, standby brightness is "off", the final hold time will be the settled hold time +30s.

Microwave Sensor function

When the ambient lux is less than settled lux, the lamp will go to the settled brightness when the movements have been detected, if still no detection within hold time, the light will go down to stand-by brightness.

When the ambient lux is more than settled lux, the lamp will keep the settled brightness even the movements have been detected.
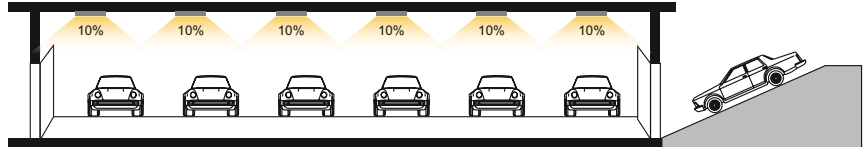
If the lamps has been set into the same group, they will go to the same brightness when one of them has detected the movements, lamps in other groups are waiting to be triggered.
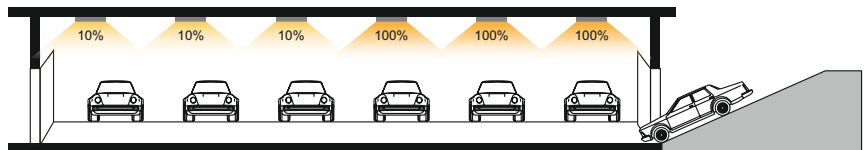
Parking lot microwave motion sensor application

Remote control settings as below:

Detective distance set as "Far", hold time set as "30Sec", daylight set as "Night", stand-by brightness set as "10%".
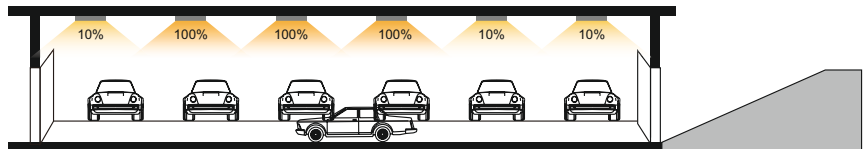Current ambient lux set less than 50 Lux(Night).

1. When microwave sensor is not triggered, lamp will keep 10% brightness.

2. When microwave sensor is triggered, lamp will dim to the Max brightness.

3. When microwave sensor is not triggered, the lamp will lower to 10% brightness after 30s.

4. When the lamp dim to 10% brightness and the sensor is still not triggered, the lamp will maintain 10% brightness.