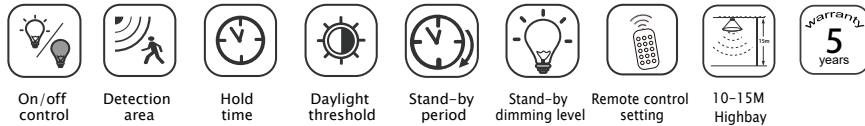


# HAISEN

## PLUG & PLAY

HD06VCRH 3

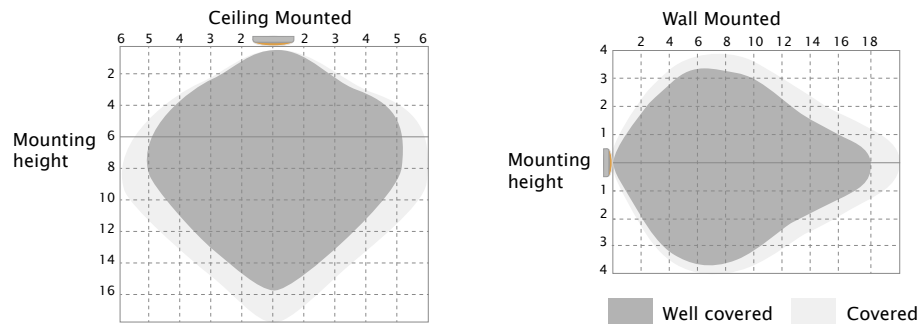
1. Automatic On/off control with Daylight sensor.
2. Optional detection range, holdtime, daylight threshold, Stand-by period and Stand-by dimming level.
3. Remote control setting.
4. 5 year warranty.



### Detection coverage

Typical installation height 15m

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

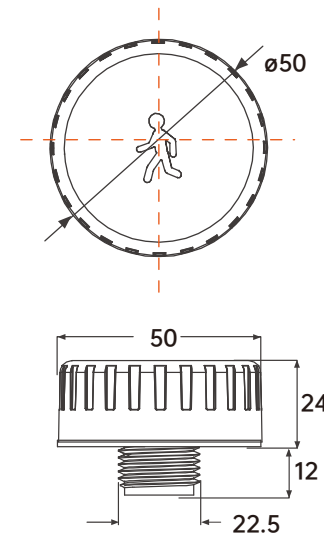


### Technical data

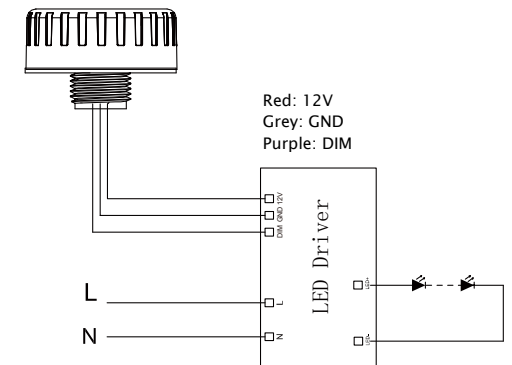
Operating voltage	10-15VDC
Operating current	30mA±5%
Output	DIM 0-10V
Stand-by power	≤0.5W
Detection area	25%/50%/75%/100%
Hold time	5s/30s/1min/3min/5min/10min/20min/30min
Daylight threshold	2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable
Stand-by period	0s/10s/30s/1min/5min/10min/30min/+∞
Stand-by dimming level	10%/20%/30%/50%
Microwave frequency	5.8GHz±75MHz
Microwave power	<0.3mW
Mounting height	15m/49.2ft (ceiling mounted)
Detection range	Max,ø14m/45.92ft (ceiling mounted)
Operating temperature	-20°C~+60°C
Motion detection	0.5~1.5m/s
IP rating	IP65
Warranty	5 years

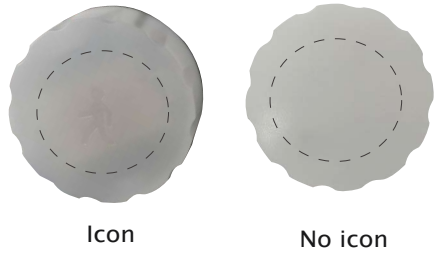
Factory Default Setting: Detection area 100%/ Hold time 5s/ Daylight threshold Disable/Stand-by period 0s/Stand-by dimming level 10%.

### Dimensions (Unit: mm)

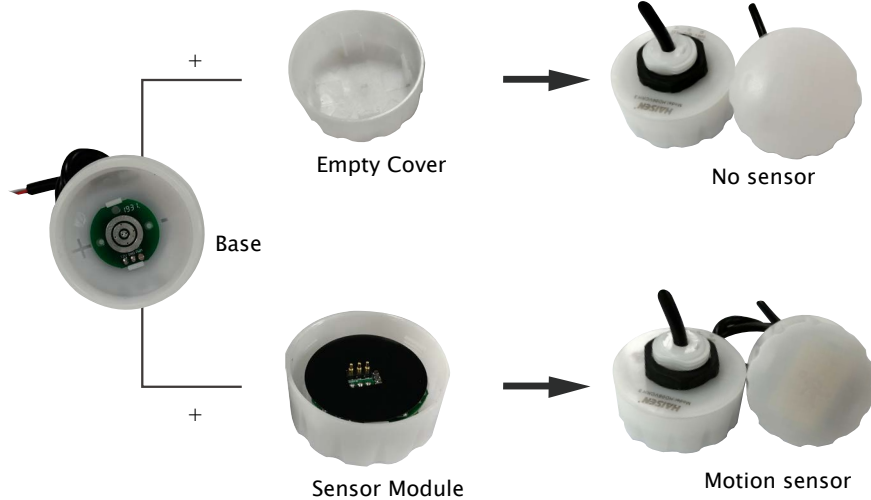


### Wiring diagram





The cover with humanoid icon indicates there is built-in microwave module with sensor function; The cover without humanoid icon indicates there is no built-in module as well as sensor function.



The bottom part will be always on the lighting fixtures; if the function is needed, the module will be placed inside; if no function needed, the module will be removed. It doesn't hurt the looking of the whole pack.



No sensor



Motion sensor

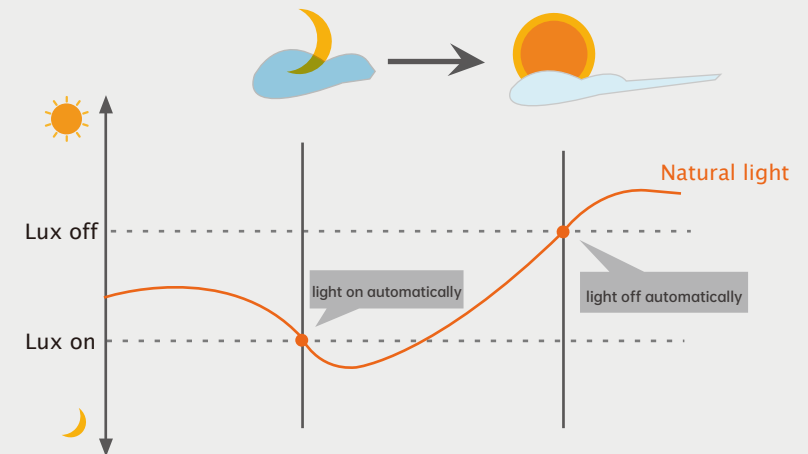
Dusk/Dawn sensor:

Dual-PD technology brings a fully automatic dusk/dawn sensor which can tell the difference between natural light and LED light, to ensure the light will be off when needed.

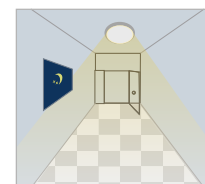
With Daylight priority function, HD06VCRH 3 is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Precondition of Daylight priority:

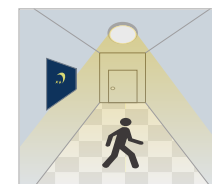
1. Standby period is  $+\infty$ ;
2. Standby dimming level is on 10%, 20% or 30%;
3. Daylight threshold is on 30Lux, 50Lux, 80Lux or 120Lux.



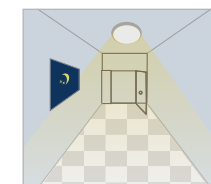
Application\_\_Daylight priority



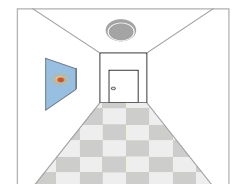
Light automatically on when ambient brightness is lower than preset lux level.



With insufficient ambient brightness, light dims to 100% when motion detected.



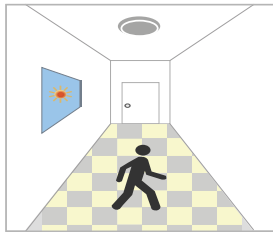
Light dims to standby level if no motion detected after holdtime.



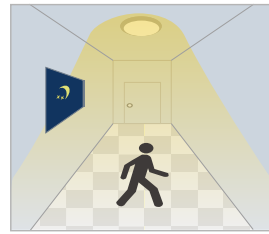
Light off when ambient lux level is higher than preset lux amount.

### 1. Automatically ON/OFF function:

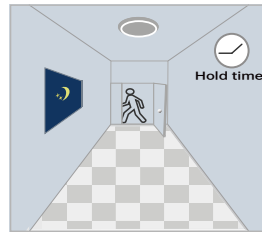
Light on when detect movement and off after people leave at night. Applications: Corridor, Staircase.



With sufficient daylight, even when motion detected, light remains OFF.



With insufficient daylight, when motion detected, light ON.



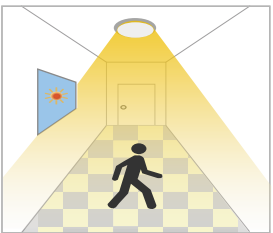
After the last detection and the present hold time elapsed, light OFF.

### 2. No daylight function

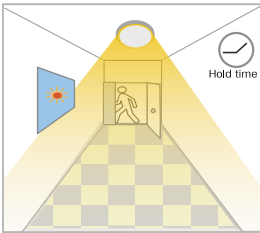
The daylight threshold is set to "Disable".

Light on when detect movement, After people leave, Light off after stand-by period.

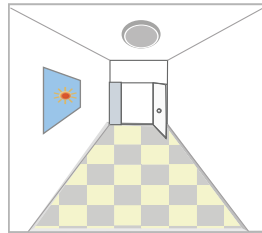
Applications: Dim places such as Basement Parking, Underpass.



When motion is detected, the sensor will switch on the light to 100% brightness.

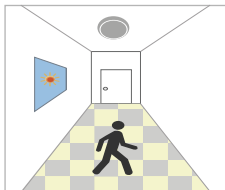


After people leave the detection area, light remains 100% brightness within hold time.



After the last detection and the present hold time elapsed, light OFF.

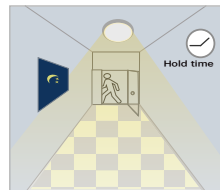
### 3. Function Demo - Dimmable control/Corridor function



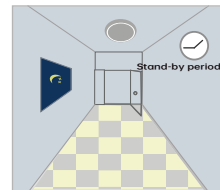
With sufficient daylight, even when motion detected, light remains OFF.



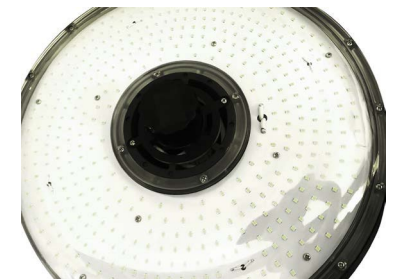
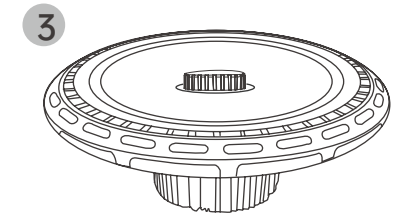
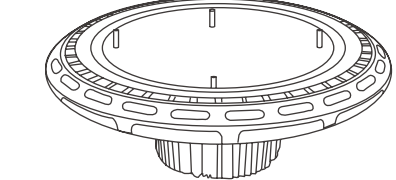
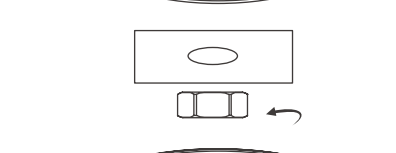
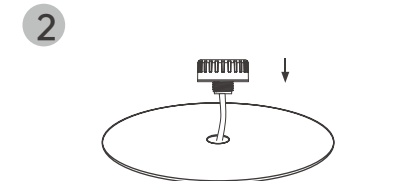
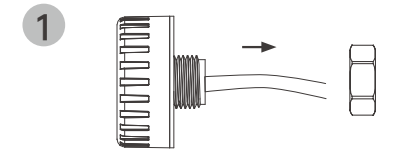
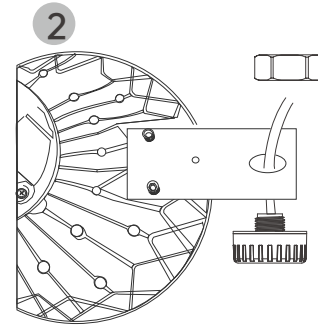
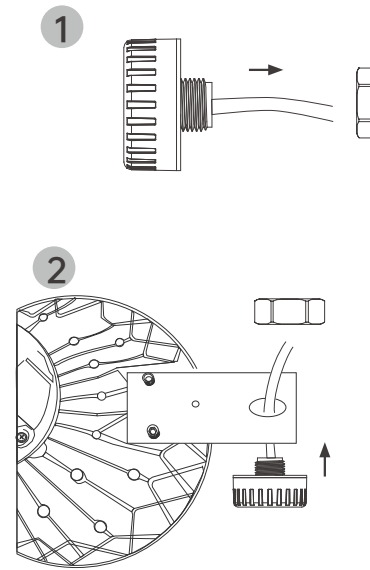
With insufficient daylight, when motion detected, light ON.



After last detection, the light will be dimmed down to the stand-by dimming level (10%,20%,30% or 50%) after holdtime.



After the stand-by period, light OFF.



## Attention



1. Please read the instructions carefully before using this product and keep it well for all users to read at any time.
2. The sensor should be installed by qualified electrician and ensure power is off before the installation.
3. We reserve the right to modify any incorrect text, image and necessary technical parameters.
4. Any unauthorized modification is forbidden, otherwise all guarantees will be immediately invalid.

## Installation precautions

1. Microwave sensor can be installed in any lamp except the one with full metal shell.
2. The detected surface cannot be shielded by metal objects.
3. Make sure the microwave module is completely exposed outside.
4. The detection surface of the sensor module shall be installed facing the detection area.
5. Should be kept away from the driver to avoid interference generation and lamp flashing.
6. Wiring must be strictly in accordance with the wiring diagram to avoid short circuit.

## Application Environment

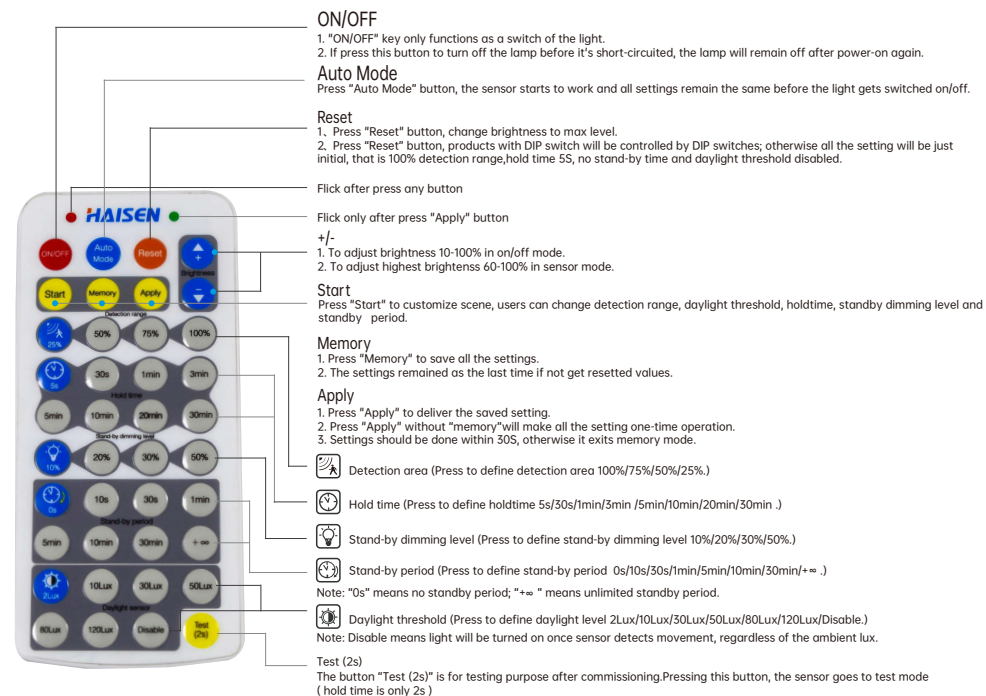
1. Suitable for indoor installation to avoid false triggering due to external factors such as rain, wind or tree swing.
2. Shall not be installed in the place with all four metal shelters and small space (such as galvanized-iron roof ).
3. Shall note be mounted installation, so as to avoid false trigger caused by the lamp itself shaking.
4. Shall not be installed next to large operating machines such as ventilator/ceiling fan to avoid false triggering caused by machine vibration.

## User Notes

1. Microwave can penetrate walls or glass thinner than 20cm and attenuate if thicker than 20cm.
2. The driver voltage shall be stable and float within 10%.
3. Detection area will be affected by speed of motion, mounting height and movement volume.
4. Conduct test on sunny days without the lampshade which will affect the tested lux value.

## Remote for dimmable sensors with memory function

HD03R



## HD03R Instruction

### Memory & Apply Mode

1. Press "ON/OFF button" to turn on the light or off.

2. To reset the parameters, Please follow the steps as below:

Step 1 - Press ON, to turn on the light if it was off at the start.

Step 2 - Press "Start" to the well-setting sensor.

Step 3 - Press the button of Detection range, Hold time, Stand-by dimming level, Stand-by period and Daylight threshold one after another in sequence.

Step 5 - Press "Memory" to memorize the settings.

Note: The interval of each parameter setting shall be controlled within 30s.

3. To programme other lights in the array that have similar sensors to the same programme.

Step 1 - Press "ON" to the second sensor

Step 2 - Press "Apply"

### Isolated Setting Mode

1. Press "ON/OFF button" to turn on the light or off. Press "Auto Mode", the remote will activate settings that were saved last remain at the factory default settings.

2. To reset the parameters, Please follow the steps as below:

Step 1 - Press ON, to turn on the light if it was off at the start.

Step 2 - Press any button of "Auto Mode", "Reset", "Test" and "Apply" to begin the sensor detection mode.

Step 3 - Press the button of Detection range, Hold time, Stand-by dimming level, Stand-by period and Daylight threshold one after another in sequence.

### Notes:

1. Settings will be saved automatically and remain until you press reset again.

2. Light will flicker when setting each parameter.