



HB001VCR-1A



HB001VCR-2A

DC input , Rod antenna

HB001VCR-1A HB001VCR-2A



- Automatic On/off control with Daylight sensor. DC input • Compact sized particularly suitable for Tri-proof light • 5 year warranty.



On/Off Control



Detection Area



Daylight Sensor



Hold Time



Warranty



Stand-by period



Stand-by dimming level

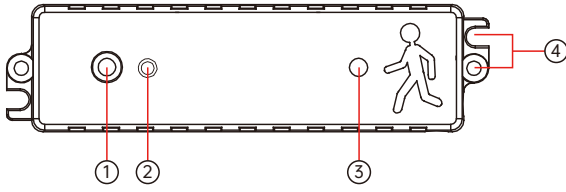


Remote Control

Technical Data

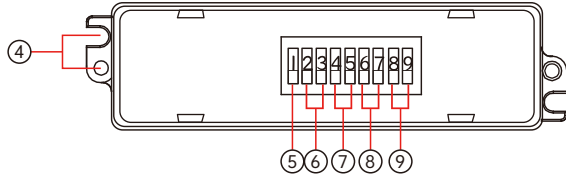
Operating Voltage DC:10.5-15V	Microwave Power <0.3mW	Motion Detection 0.5-1m/s
Operating Current <30mA	Microwave Frequency 5.8GHz±75MHz	Operating Temperature -20°C~+60°C
Stand-by power <0.5W	Mounting Height Max.4m/13.12ft Ceiling Mounted	IP Rating IP20
Control Method ON/OFF 0-10V DIMING	Detection Range Max. Diameter 10m/32.8ft Ceiling Mounted	Warranty 5 years
Detection Angle _150° Wall mounted_ 360° ceiling mounted	Connection Type Quick Connector	Function Setting DIP Switch/Remote Control
Detection Angle		
DIP switch : 50%/100% Remote control : 25%/50%/75%/100%		
Hold Time		
DIP switch :10s/1min/5min/10min Remote control : 5s/30s/1min/3min/5min10min/20min/30min		
Daylight Threshold		
DIP switch :10Lux/30Lux/50Lux/Disable Remote control :2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable		
Stand-by period		
DIP switch :1min/ 30min/ 60min/+∞ Remote control : 0s/10s/30s/1min/ 5min/10min/ 30min/ 60min/+∞		
Stand-by dimming level		
DIP switch :10% 20% 30% 50% Remote control :10% 20% 30% 50%		

Mechanical structure



- ① Antenna module
- ② IR Receiver 日光感应器
- ③ Daylight Sensor

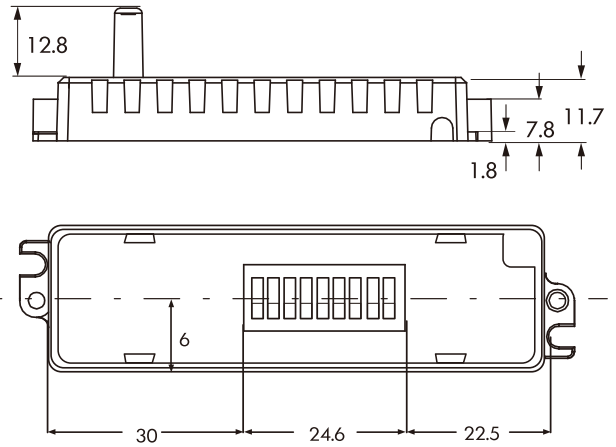
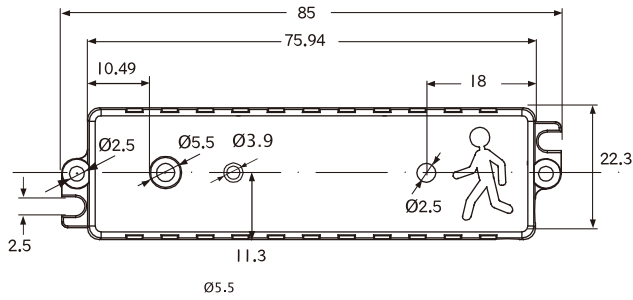
- ④ Installation Hole
- ⑤ Detection Angle
- ⑥ Hold Time



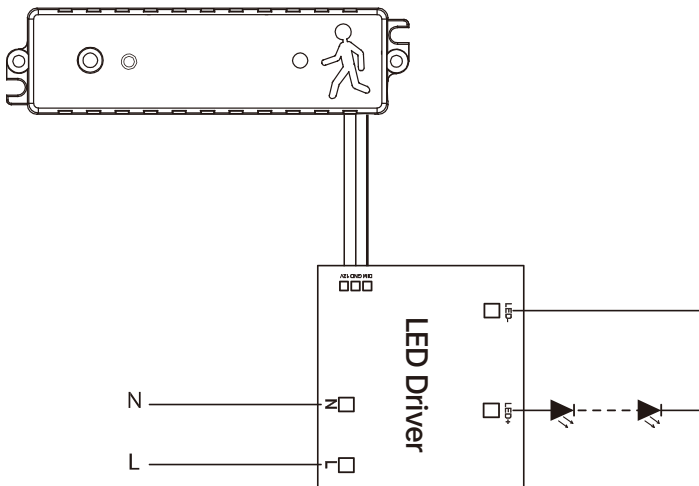
- ⑦ Stand-by dimming level
- ⑧ Stand-by Period
- ⑨ Daylight Threshold

Dimensions

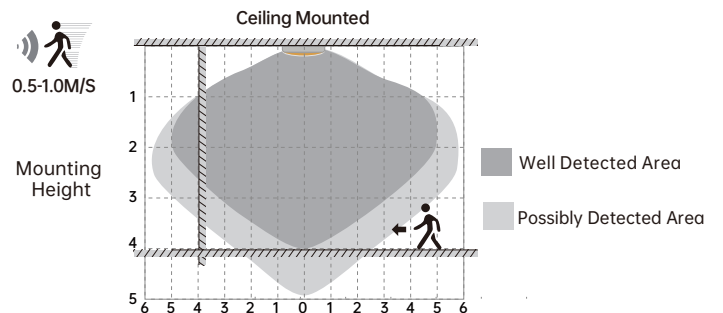
Unit:mm



Wiring Diagram



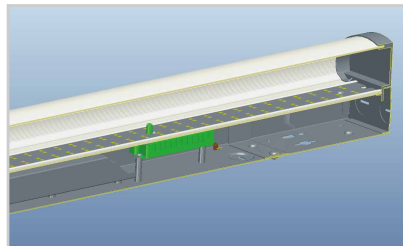
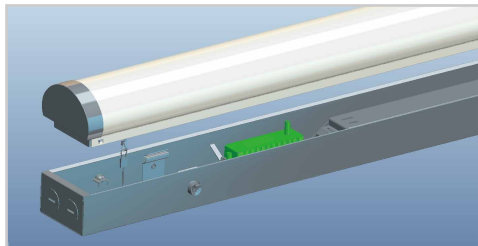
Detection Patterns



Highest mounting height is 4m

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

Installation Method



DIP Switch Setting



● Switch UP
○ Switch DOWN

Stand-by dimming level

●	●	10%
○	●	20%
●	○	30%
○	○	50%

The definition of low output in the standby period.

Stand-by period

●	●	0s
●	○	30s
○	●	20min
○	○	+∞

The period of light keeping low output before it's completely switched off. When it's preset as "∞", the light always keep at low output if no movement in the detection area and doesn't turn off.

Daylight Threshold

●	●	Disable
●	○	50lux
○	●	10lux
○	○	2lux

Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable", the sensor works everytime it detects motion regardless the ambient brightness.

Hold-Time

●	●	5s
●	○	30s
○	●	1min
○	○	10min

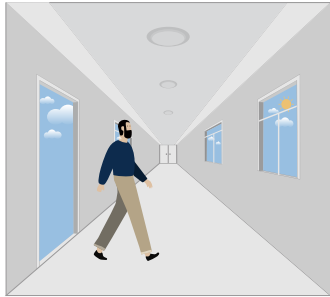
The period of light keeping 100% brightness after moving objects leave the detection area.

Detection Area

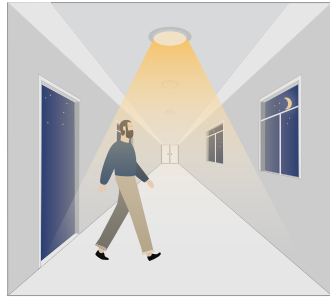
●	100%
○	50%

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.

1. Automatically ON/OFF function



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



With insufficient daylight, the sensor turns light ON when motion gets detected.



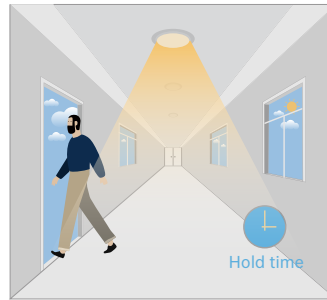
The sensor turns OFF light automatically after the hold time when there's no motion detected.

2. Daylight Disable

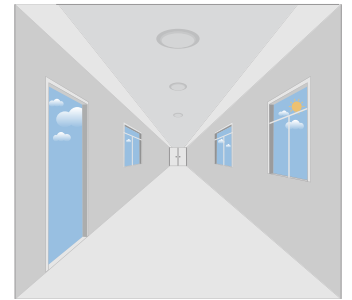
When daylight threshold is preset as "disable", the sensor turns light ON when motion gets detected, and OFF after hold-time.



The sensor turns light ON when motion gets detected.

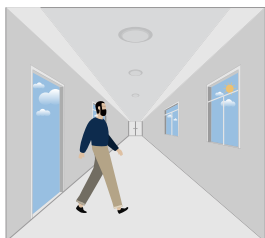


The sensor keeps light ON for holdtime period after motion leaves.

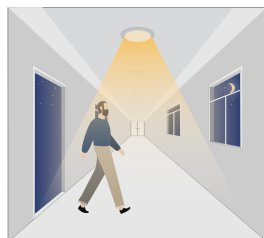


The sensor turns OFF light automatically after the holdtime.

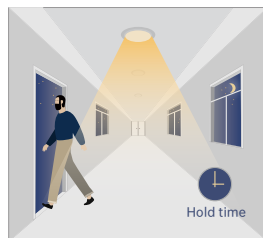
3. Corridor Function, Bi-level Dimmable



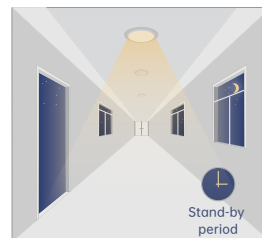
With sufficient daylight, the sensor keeps light OFF even motion gets detected.



With insufficient daylight, the sensor turns light ON when motion gets detected.



After there's no motion detected, the sensor keeps light ON 100% for holdtime.



After holdtime, sensor dims light to standby dimming level for standby period.



The sensor turns OFF light automatically after the standby period when there's no motion detected.



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 <20mm and attenuate if thicker than <20mm.
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.

SCREEN DISPLAY, MEMORY & APPLY FUNCTION, OPTIONAL SCENES

Model: HD05R



Briefing of Button Functions

Buttons	Function	Performance
	ON/OFF	Turn ON or OFF the sensor.
	MW/PIR	Exchange from Microwave detection to PIR detection, for future use.
	Reset	Press it to start detection programming; before pressing any other buttons, the screen shows default programming (Detection Area 100%, Holdtime 5S, Daylight Disable, Standby Dimming 10%, Standby Period 0S)
	Start	Press it before you try to memorize program into the remote; After pressing it, S on the screen will blink and keeping blinking while making the program.
	Memory	Press it after programming, the blinking S will become a solid M, that means the program has been well memorized.
	Apply	Press it to deliver the preset program to the specific sensors; every press will make the whole screen blink gently.
	Detection area	Also known as "sensitivity", 100% means the highest sensitivity and longest distance. Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	Hold time	The period that light will stay illuminated 100% after no motion's detected; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	Daylight Threshold	The preset lux level to compare with ambient brightness when motion gets detected; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	Stand-by period	The period after holdtime, during which the light keeps standby dimming level; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	Stand-by dimming level	After holdtime, the light will dim from 100% to optional standby dimming levels; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	UP	The main functional buttons to adjust the factors to wanted level.
	DOWN	
	POWER	Supports to manually change dimming output in detection mode; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	Test mode	Supports to check if the sensor works correctly with a short 2S holdtime; Press it and the holdtime will change to 2S, and it can't be memorized.

HOW TO USE HD05R

1. SENSOR PROGRAMMING

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. Choose functional button of detection area, see icon blinking on the LCD screen display then use + - buttons to change
4. Same programming with all the other functional buttons of holdtime ,standby dimming level, standby period and daylight threshold
5. Done and leave the remote.

*Icon keeps blinking on the screen for 5S that means the program will then be kept after 5S.

*Each press will make sensor dim down light then back to 100%, it means remote signal has been well received.

2. MEMORY AND APPLY

@the 1st sensor

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. START button
4. Choose functional button of detection area, see icon blinking on the LCD screen display then use + - buttons to change
5. Same programming with all the other functional buttons of holdtime ,standby dimming level, standby period and daylight threshold
6. MEMORY button
7. APPLY button

@the other sensors

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. APPLY button

3. MANULLY DIMMING

ON/OFF mode

1. ON/OFF button to turn on the light
2. Press +- button to dim light directly, it dims from 10% to 100%

DIMMING mode

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. POWER button
4. +- buttons to dim light, but it only dims from 60% to 100%; 50% is one of the standby dimming level options

* Number on LCD screen display may keep changing 10%-100%.