

产品规格书

PRODUCT SPECIFICATION

PRODUCT—产品: 12VDC 微波红外互换式感应器MODEL NO—型号: HD07VR SeriesDATE——日期: 2022-03-14PREPARED—编制: 夏勇CHECKED—审核: 郑圣新APPROVED—批准: 周蕊

客户确认

CUSTOMER RECEIVED

CUSTOMER—客户: _____

CHECKED——审核: _____

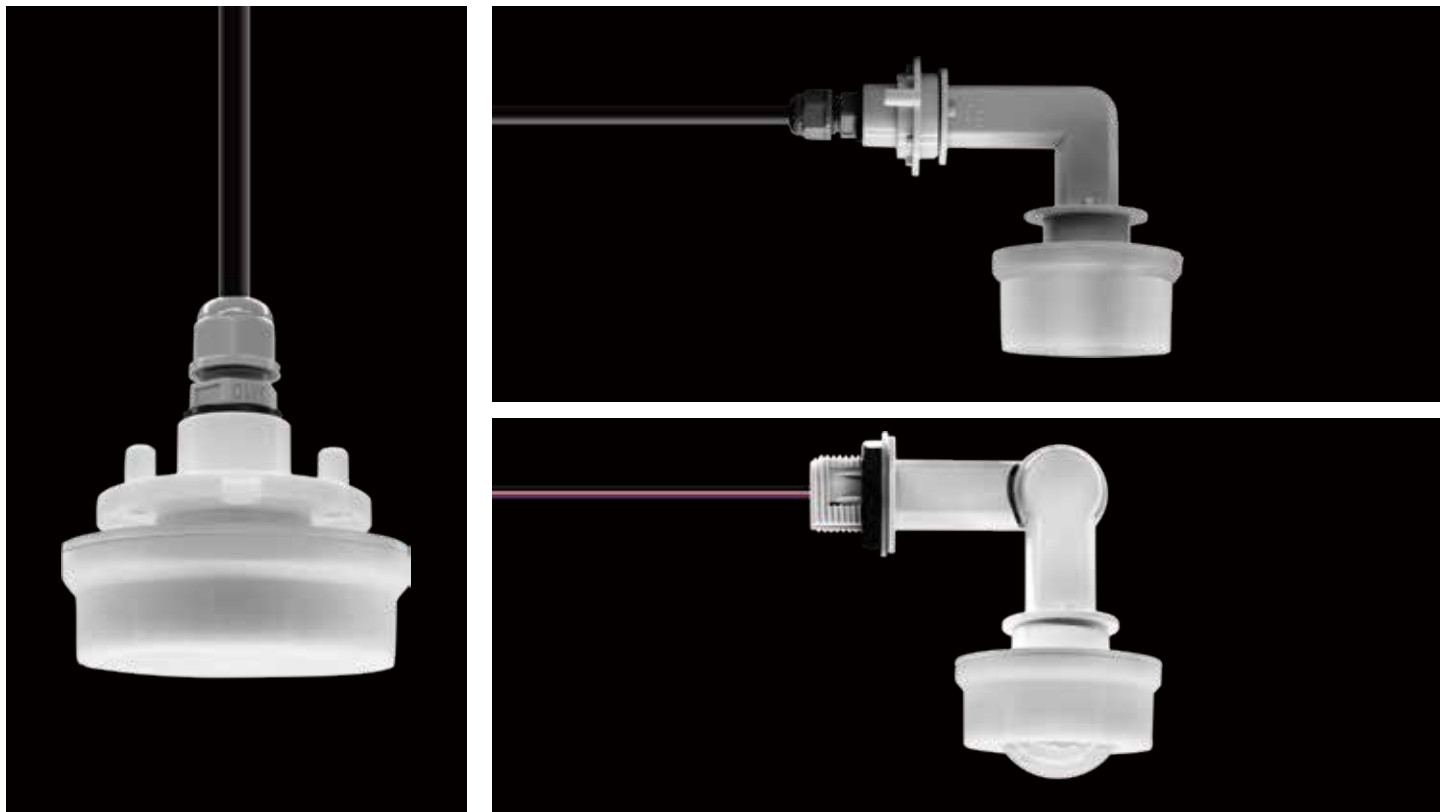
APPROVED—批准: _____

DATE——日期: _____

产品版本变更记录表

版本	变更日期	变更内容	备注
V1.0	2021/06/04	/	/
V2.0	2021/12/09	明确产品型号	见下表
V3.0	2022/03/12	增加 HD07VRA1底座	见A款产品介绍页面
V4.0	2022/03/14	更换线材颜色	见下表

功能 Function	原线色 BEFORE	更新后 AFTER
VCC	红色 Red	黑白色 Black White
GND/DIM-	灰色 Gray	粉色 PINK
DIM+	紫色 Purple	紫色 Purple



12VDC

万能感应器

12VDC One For All

12VDC One For All HD07VR Series CE

- 纯光感、微波感应、红外感应三种功能 • A B C三款独家专利设计支架, 万能适配 三段式调光, 自然光学习与光感优先功 • 标配带LCD屏显的遥控器。
- Functions: Daylight, Microwave sensor, PIR Sensor • Supportings: A B C different brackets, get what you want • Bi-level Dimmable, daylight learning and daylight priority • Remote Control With LCD Screen Display.

产品型号列表 Order Information

Model Number	Microwave	PIR	A	B	C	Dimmable	Highbay
HD07VRA-MH	✓		✓			✓	✓
HD07VRB-MH	✓			✓		✓	✓
HD07VRC-MH	✓				✓	✓	✓
HD07VRA-PH		✓	✓			✓	✓
HD07VRB-PH		✓		✓		✓	✓
HD07VRC-PH		✓			✓	✓	✓



On/Off Control
开/关功能



Detection Area
探测范围设置



Daylight Sensor
日光阈值设置



Hold Time
延时时间设置



Warranty
5年质保



Stand-by period
守候时间设置



Stand-by dimming level
守候亮度设置



Remote Control
遥控设置

Technical Data 参数规格

基本参数 Basic Information

工作电压 Operating Voltage DC Input: 10.5-15V Current >50mA	调光方式 Dimming Control ON/OFF 0-10V Dimmable	工作温度 Operating Temperature -20°C ~ +70°C	IP 防护等级 IP Rating IP65	质保 Warranty 5 years
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设置功能参数 Sensor Function

灵敏度设置 Sensitivity Setting 25%/50%/75%/100%	延迟时间设置 Holdtime 5s/30s/1min/3min/5min/10min/20min/30min
守候时间设置 Standby Period 0s/10s/30s/1min/5min/10min/30min/60min/+∞	守候亮度设置 Standby Dimming 10%/20%/30%/50%
日光阈值设置 Daylight 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable	

光感参数 Daylight Sensor, Model: HD07VR-A

待机功耗 Standby Consumption DC10.5-15V >30mA	适用范围 Applications 适用于户外或者半户外, 通过自然光条件判断灯光变化的场景 Suitable for outdoor where daylight determines light ON, OFF or 50% ON	光感学习功能 Ambient Brightness Learning 遥控学习当前环境自然光后进行自动光互补调光 Learn real-time ambient brightness then dim light along with daylight changing
光互补 Daylight Harvesting 30Lux/50Lux/80Lux/120Lux/200Lux /250Lux/300Lux/350Lux/400Lux	光感开关值 Photocell Lux Level 2Lux/10Lux 环境光大于设定值10倍时灯关闭 At 2Lux or 10Lux, when daylight is 10 times of preset lux level, it will turn off light automatically	

微波感应参数 Microwave Sensor

待机功耗 Operating Voltage DC Input: 10.5-15V Current >50mA	探测距离 Detection Distance 半径 3-7m/9.84-22.96ft Radius 3-7m/9.84-22.96ft	安装高度 Mounting Height Max 6m/19.68ft Max 15m/49ft /	适用范围 Applications
探测角度 Detection Angle 30°-150° 无玻璃罩 Without Glass Cover	光感优先的条件 How to perform Daylight Priority 光感设置为: Daylight threshold is on 30Lux/50Lux/80Lux/120Lux; 守候时间为: Standby period is +∞; 守候亮度为: Standby dimming level is on 10%/20%/30%.		

红外感应参数 PIR Sensor

待机功耗 Operating Voltage DC10.5-15V >30mA	探测距离 Detection Distance 半径 3-7m/9.84-22.96ft Radius 3-6m/9.84-19.68ft	安装高度 Mounting Height ≤12m/39.37ft	适用范围 Applications /
探测角度 Detection Angle <120° 菲涅耳透镜 Fresnel Lens	光感优先的条件 How to perform Daylight Priority Daylight threshold is on 30Lux/50Lux/80Lux/120Lux; 守候时间为: Standby period is +∞; 守候亮度为: Standby dimming level is on 10%/20%/30%.		

独家专利

EXCLUSIVE PATENT



HD07VRA



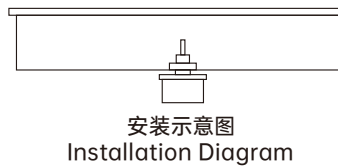
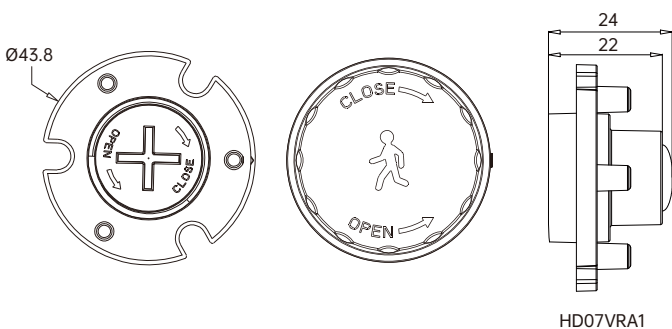
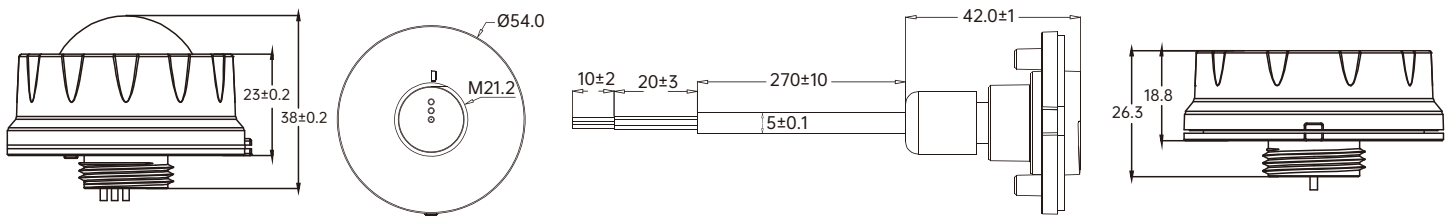
HD07VRA1

With Rubber Plug For Waterproof
内置胶塞 结构防水



A款底座 Type A

Dimensions 尺寸图 Unit:mm



Sensor & Intelligent Control

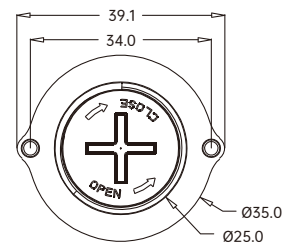
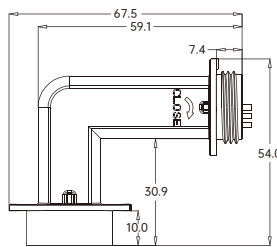
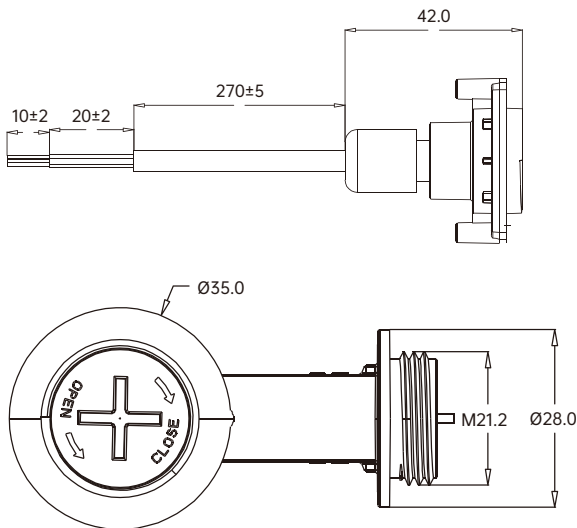
独家专利

EXCLUSIVE PATENT



B款底座 Type B

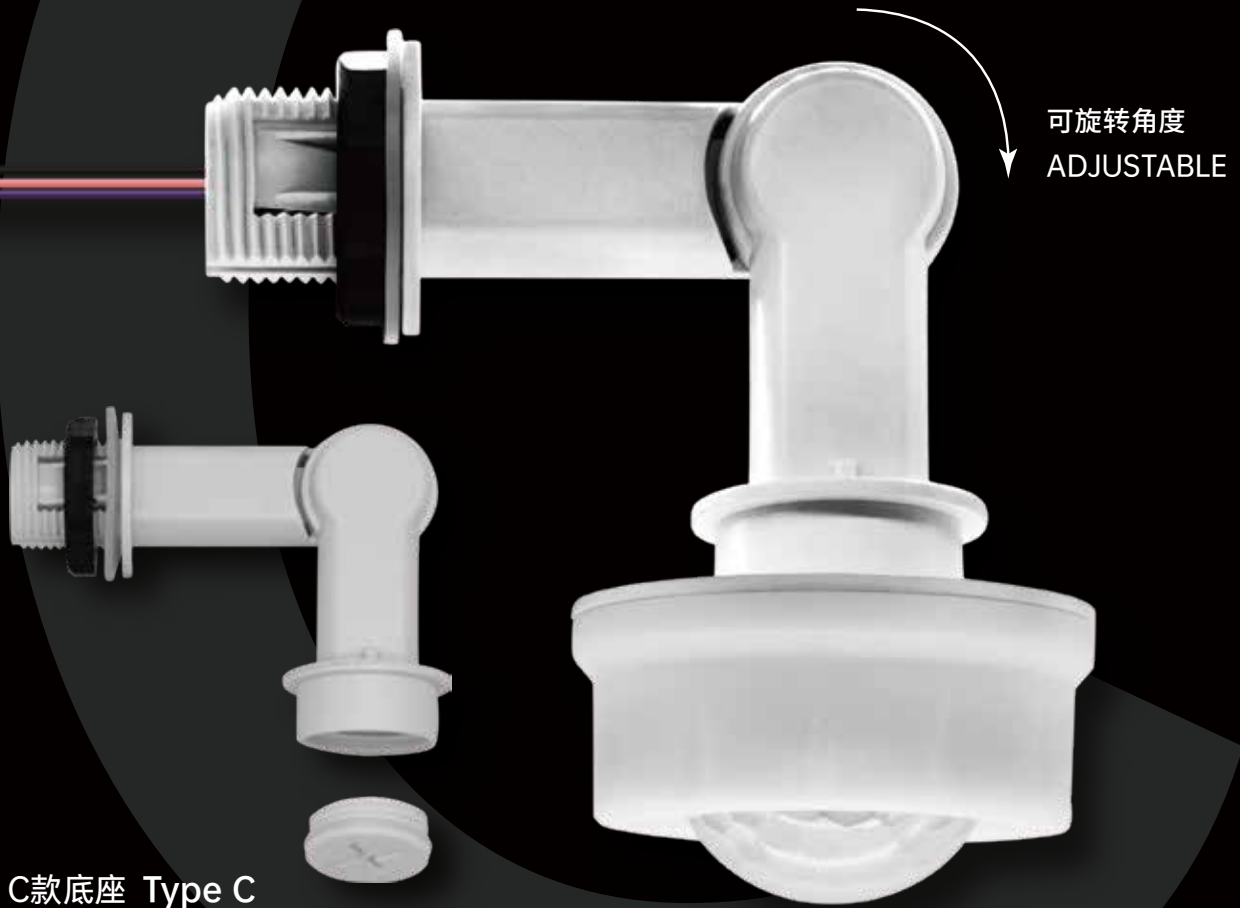
Dimensions 尺寸图 Unit:mm



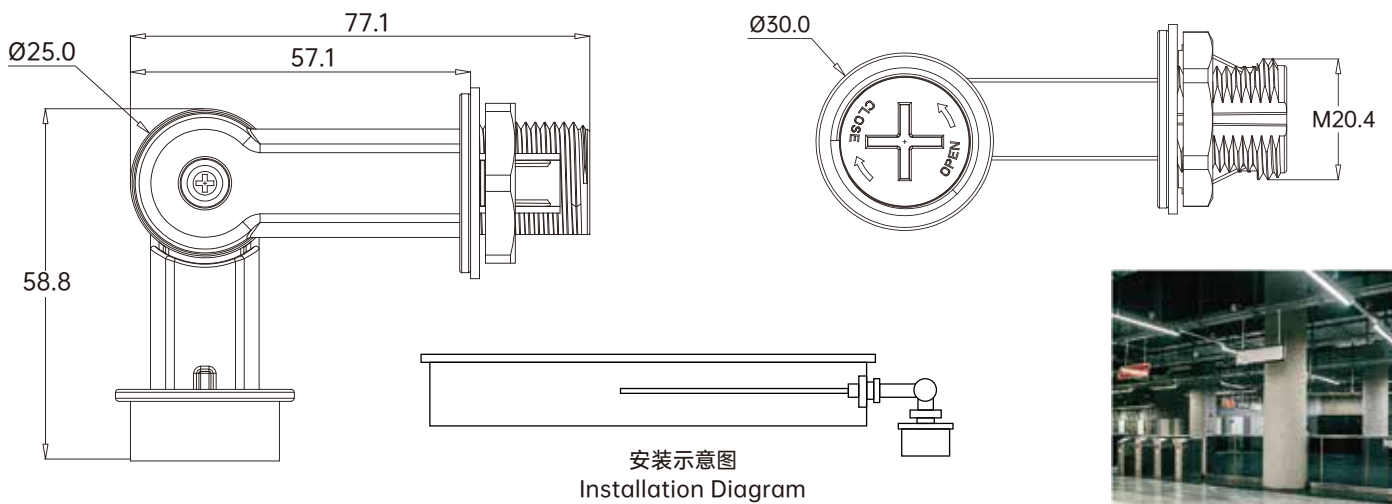
Sensor & Intelligent Control

独家专利

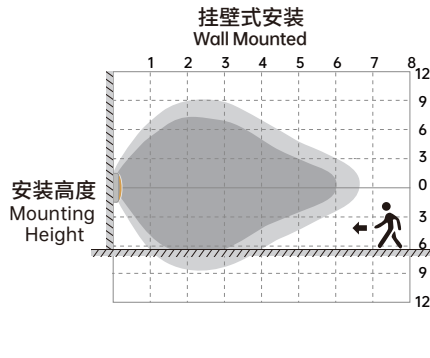
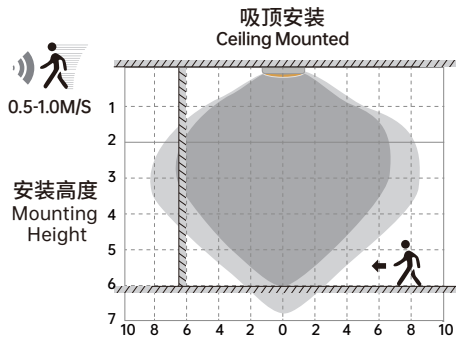
EXCLUSIVE PATENT



Dimensions 尺寸图 Unit:mm



Sensor & Intelligent Control

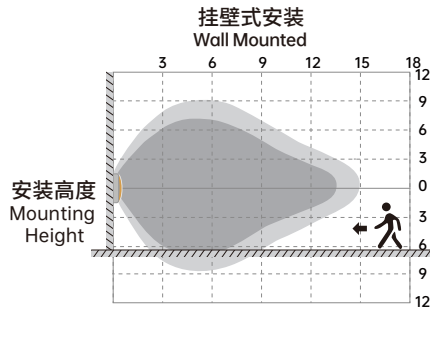
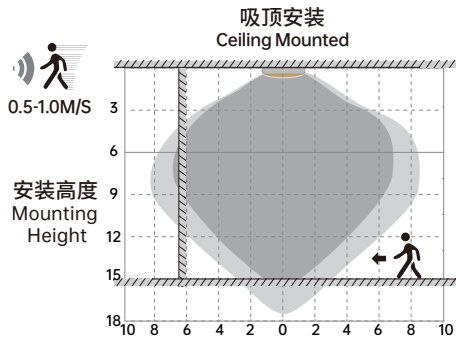


此图表示探测范围为100%时检测距离的参考图。

Highest mounting height is 6m

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

覆盖信号强 Well Detected Area 覆盖信号弱 Possibly Detected Area

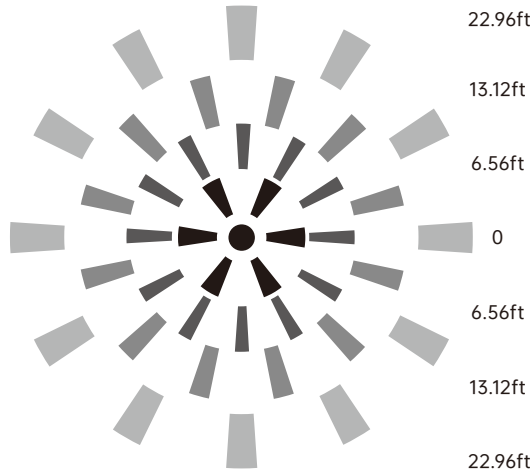


此图表示探测范围为100%时检测距离的参考图。

Highest mounting height is 15m

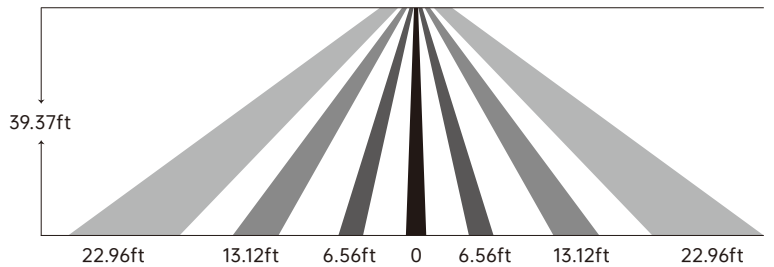
This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

覆盖信号强 Well Detected Area 覆盖信号弱 Possibly Detected Area

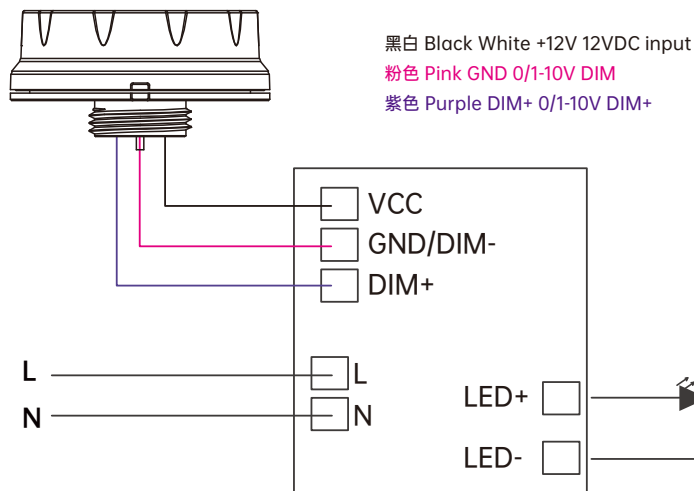


安装高度 Mounting Height
<12m/39.37ft 吸顶安装
<12m/39.37ft Ceiling Mounted

探测距离 Detection Distance
半径 3-7m/9.84-22.96ft
Radius 3-7m/9.84-22.96ft

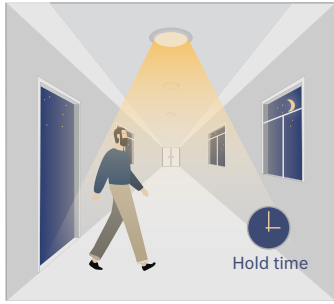


Wiring Diagram 接线图

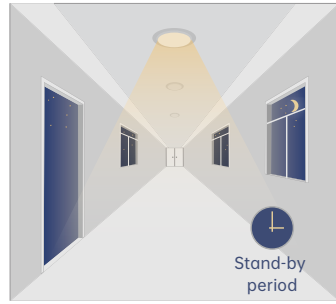


Same wiring for all the different sensor parts
三款功能感应头均为此接线方式

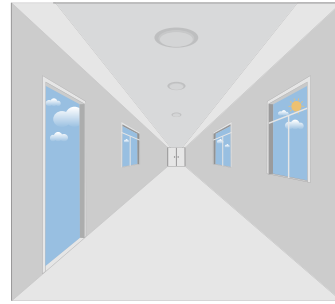
1. 光感功能 Daylight Sensor



Turn on the light when it's dark enough.
自然光足够暗时自动开灯



Dim the light along with daylight changing, as daylight harvesting function
随着自然光的亮暗变化自动调光，以达到光互补效果



Turn off the light when it's bright enough.
自然光足够亮时自动关灯。

2. 感应功能 Microwave/PIR Sensor

1. 未执行光感优先功能 Without Daylight Priority



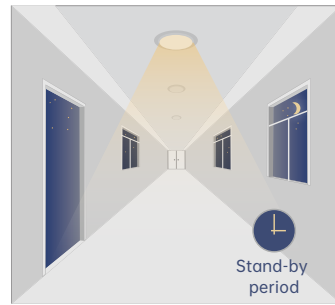
With insufficient ambient brightness, sensor turns ON light automatically even there's no motion.

当环境光线不足时，感应器检测到有人走动，灯自动100%全亮。此光感检测功能可以设置为不受控。



Sensor turn ON light 100% when it detects motion, and keep for a holdtime period after motion leaves.

当检测到运动时，感应器亮灯到100%；运动离开以后进入延时时间。



Sensor dims light to standby dimming level after holdtime if there's still no motion

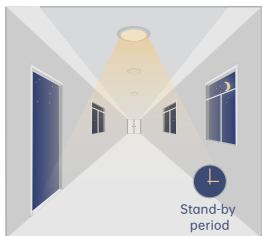
延时时间以后进入守候时间，此时保持守候亮度。



Sensor turns OFF light after standby period.

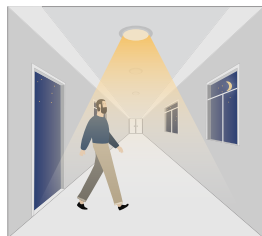
守候时间以后自动关灯。

2 执行光感优先功能 With Daylight Priority



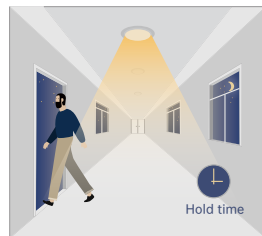
With insufficient ambient brightness, sensor turns on light and keep it at standby dimming level even there's no motion or presence.

环境光不足，即使无人运动或出现，感应器自动亮灯并维持守候亮度



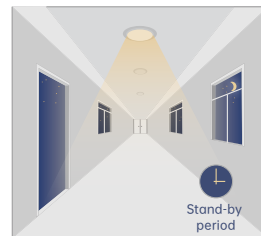
When sensor detects motion or presence, it will dim light to 100%.

当检测到人体或运动时，感应器自动亮灯到100%。



After motion or presence leaves, it will go holdtime period and still keep light 100%.

当人体或运动离开后，感应器进入延时时间，仍保持100%亮度。



After preset holdtime period, it will dim light to standby dimming level again and always keep it.

过了延时时间以后，感应器调光到至守候亮度并始终维持此亮度。

With sufficient ambient brightness, sensor will turn ON light automatically.

环境光充足时，感应器会自动关灯。



Attention 注意事项

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.

- 1、使用本产品前请仔细阅读使用说明，并妥善保管以便所有使用者随时参阅。
- 2、感应器应由专业的电工安装，并确保在安装前，切断电源。
- 3、我们将保留对任何错误文字或图像以及必要的技术参数做出修改的权利。
- 4、未经授权不得擅自修改感应器，否则一切签约保证将立即失效。

Installation precautions 安装注意事项

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.

- 1、除全金属壳灯具外，微波感应器可内置安装在其它任意灯具内。
- 2、微波感应面不能有金属物体遮挡。
- 3、开孔安装时，确保微波模块应完全裸露在外，否则会导致灯常亮或不灭。
- 4、感应模组探测面应面对检测区安装，否则会导致无感应或灯常亮。
- 5、应与驱动保持距离，否则会产生干扰，导致灯闪。
- 6、须严格按照接线图接线，否则会导致感应器短路。

Application Environment 应用环境

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.

- 1.适用于室内安装，以免外界因素如下雨、刮风或树木摆动而误触发微波感应器。
- 2.避免安装在四面都有金属遮挡物，且空间狭小的地方（如铁皮房），以免造成灯常亮等自激现象。
- 3.避免悬挂式安装，以免灯具自身摇晃引起的误触发。
- 4.避免安装在大型运作的机器旁（如抽风机/吊扇），以免机器震动引起误触发。

User Notes 用户须知

1. Microwave can penetrate walls or glass thinner than $<20\text{mm}$ and attenuate if thicker than $<20\text{mm}$.
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.

- 1.除金属外，微波可穿透墙壁或玻璃（ $<20\text{mm}$ ），但会有衰减。
- 2.驱动电压需稳定，不能超出或低于工作电压 $\pm 10\%$
- 3.微波感应器会受安装环境、灯具、测试人员身形和速度的影响，探测范围会有所差异。
- 4.测试所得的 Lux 值会受灯具安装方式和灯罩材料的影响，建议在没有灯罩的晴天进行测试。

SCREEN DISPLAY,
MEMORY & APPLY FUNCTION,
OPTIONAL SCENES

独家LCD屏显
支持设置记忆与一键发送
配合调光功能感应器

Briefing of Button Functions 按钮功能简介

Model: HD05R



Buttons 遥控按键	Function 按键功能	Performance 按键介绍
	ON/OFF 开/关按键功能	Turn ON or OFF the sensor. 1. 开 / 关常亮长叉模式; 2. 关闭微波感应模式
	MW/PIR	Daylight learning button, press it and light flickers 3 times and light on, it means ambient brightness learnt. 这个键是光感学习键。遥控器切换到MW/PIR互闪且灯具亮3秒后再亮起表示学习光感值成功
	Reset 复位功能	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) 切换功能模式 感应模式默认值为探测范围 100%, 延时 5S, 守候 10% 亮度, 守候时间 0s, 光感不受控。
	Start 开始设置	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. 按下 Start 键, 显示屏左下角有 S 字母闪烁即可开始通过下面功能设置, 选定自己想要的功能参数
	Memory 存储/保存	Press it after programming, the blinking S will become a solid M, that means the program has been well memorized. 设置好自定义功能参数后, 需按下 Memory 键进行存储, 才能成功存储自定义功能参数值于遥控器内;
	Apply 一键发送	Press it to deliver the preset program to the specific sensors; every press will make the whole screen blink gently. 其它的感应器要使用已存储好的自定义场景设置时, 在红外接收范围
	Detection area 探测范围设置	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. 功能模式下按下此键显示屏上相应灵敏度栏图标闪烁, 此时可通过中间的加减键选择灵敏度参数。
	Hold time 延迟时间设置	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. 功能模式下按下此键显示屏上相应延时栏图标闪烁, 此时可通过中间的加减键选择延时时间参数。
	Daylight Threshold 日光阈值设置	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. 功能模式下按下此键显示屏上相应光感阈值栏图标闪烁, 此时可通过中间的加减键选择光感阈值参数。
	Stand-by period 守候时间设置	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. 功能模式下按下此键显示屏上相应守候时间栏图标闪烁, 此时可通过中间的加减键选择守候时间参数。
	Stand-by dimming level 守候亮度设置	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. 与守候时间结合使用; 功能模式下按下此键显示屏上相应守候亮度栏图标闪烁, 此时可通过中
	UP 向上翻/或递加	The main functional buttons to adjust the factors to wanted level. 这两个按键是选择键, 按功能按键后, 再按 +/- 键选择参数。
	DOWN 向下翻/或递减	
	POWER 输出功率设置	Supports to manually change dimming output in detection mode; Press it, specific icon on the screen will blink and press the + - buttons to adjust. 功能模式下按下此键显示屏左中位置出现 PW 闪烁, 此时可通过中间加减键设置灯的输出功率
	Test mode 测试模式键	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. 按下此键为感应模式测试模式键, 断电后不此参数设定。 灵敏度 100%, 延时 2S, 守候亮度 10%, 守候时间 0S, 光感不受控。

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 afte 5S.

*Each press will make sensor dim down light then back to100%, 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%.

HD05R 遥控使用步骤





1、微波感应设置

- 1.首先按 Scene 键复位, 切换到感应模式;
- 2.开始对探测范围  / 延时时间  / 日光感应  / 守候亮度  / 守候时间  设置参数, 按  /  键选择参数, 设置时显示屏上对应的图标会闪烁, 闪烁时间长是 5s, 5s 后自动保存设置值, 同时, 每遥控一次灯会眨眼睛模式一次, 表示遥控信号接收成功并生效。
- 3.遥控设置完成。

2、自定义存储设置和应用 Start / Memory / Apply

- 1.首先按 Scene 键复位, 切换到感应模式;
- 2.开始对探测范围  / 延时时间  / 日光感应  / 守候亮度  / 守候时间  设置参数, 选择功能键后以  /  键选择参数, 设置时显示屏上对应的图标会闪烁, 闪烁时间长是 5s, 5s 后就会自动退出该模式。
- 3.设置完成后, 按 Memory 键保存
- 4.其它的感应器要应用已存储好的自定义场景模式时, 按 Apply 键即可应用已存储好的自定义场景模式, 同时灯也会眨眼睛模式, 表示遥控信号接收成功并生效。

3、灯亮度设置 (即输出功率设置) :

- 1.灯亮度设置时有两种情况, 感应模式状态和常亮模式状态时。
- 2.在常亮模式状态下, 按遥控  /  键设置, 调节范围 10% -100%。
- 3.感应模式下状态下:
 - *要先按遥控中的 Scene 键, 再按 POWER 键, 再按  /  键设置灯的亮度, 调节范围 60% -100%;
 - *注意的是遥控上的数值可以调 10% -100%, 实际灯亮度调至 60%后亮度不再变暗。