HIGHBAY MICROWAVE SENSOR SERIES

HD07VR-MHF-1

HAISEN®
STAY SMART STAY SIMPLE

FEATURES

- Microwave Sensor for max 15M Height
- Bi-level Dimmable, Daylight Threshold
- Remote control

On/Off Control | Detection Area | Stand-by dimming level | Stand-by period | Hold Time

Daylight Sensor | Remote Control | IP Rating | Warranty

HD07VR-MHF-1

HD06R

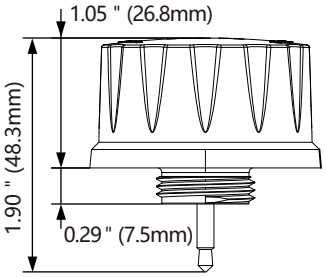
TECHNICAL DATA

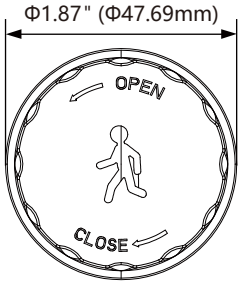
Microwave Information	
Frequency	5.8GHz±75MHz
Microwave Power	<0.3mW
Motion Detection	0.5~1m/s
Mounting Height	Max.15m/49.21ft
Detection Range	Max,ø16m/52.49ft

Electrical Specifications	
Operating Voltage	10.5-15V DC
Output control	DIM 0-10V
Working Temp	-20℃~+60℃

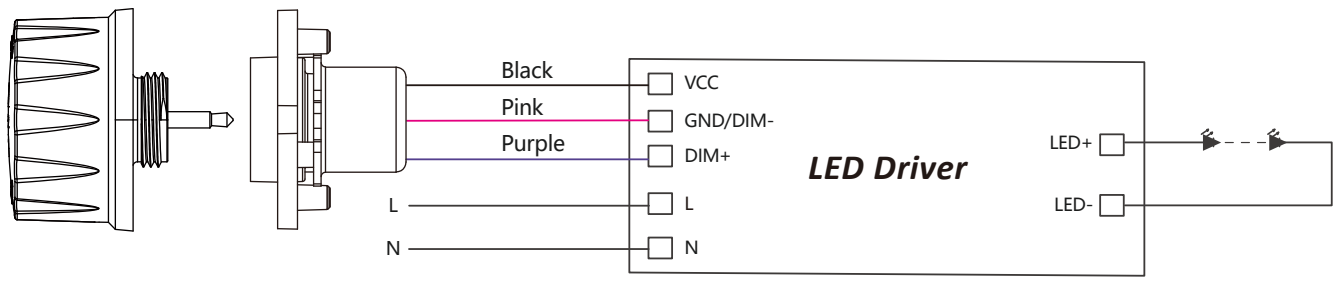
Sensor Parameter	
Control Device	Remote Control #HD06R(purchase separately)
Detection Area	25%/50%/75%/100%
Holdtime	5s/30s/1min/3min/5min/10min/20min/30min
Daylight Threshold	2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable
Stand-by Period	0s/10s/30s/1min/5min/10min/30min/60min+∞
Stand-by Dimming Level	10%/20%/30%/50%
Daylight Priority Function	1. STANDBY DIM LEVEL as any of 10% 20% 30% 2. STANDBY PERIOD as infinite 3. DAYLIGHT as any of 30Lux / 50Lux / 80Lux / 120Lux / 200Lux / 250Lux / 300Lux / 350Lux / 400Lux

DIMENSIONS





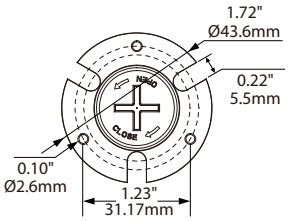
WIRING DIAGRAM

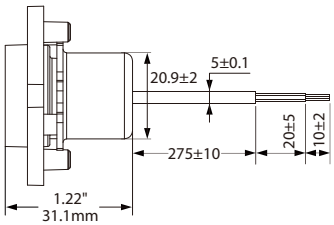


RECEPTACLE OPTIONS

HD07VRA 2

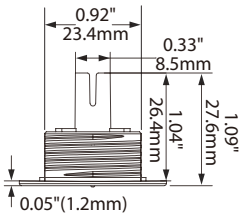
Black/white VCC, Pink GND/DIM-, Purple DIM+
Length: 330mm

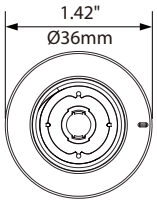




HD07VRA-3-1

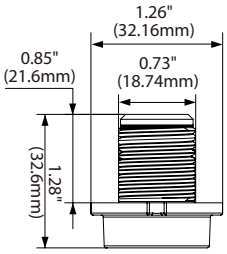
Yellow VCC, Pink GND/DIM-, Purple DIM+
Length: 300mm

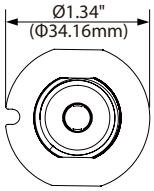




HD07VRA-5-1

Black/white VCC, Pink GND/DIM-, Purple DIM+
Length: 305mm





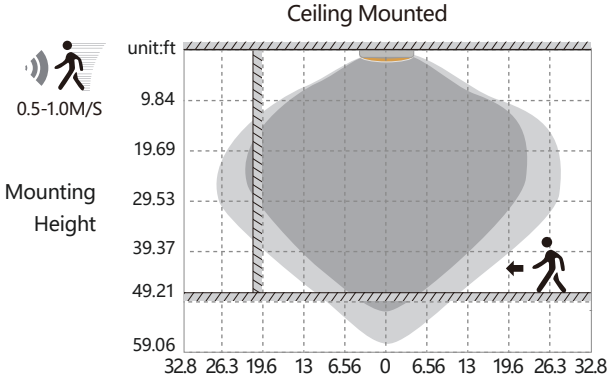
DETECTION COVERAGE

Highest mounting height is 15m/49.21ft

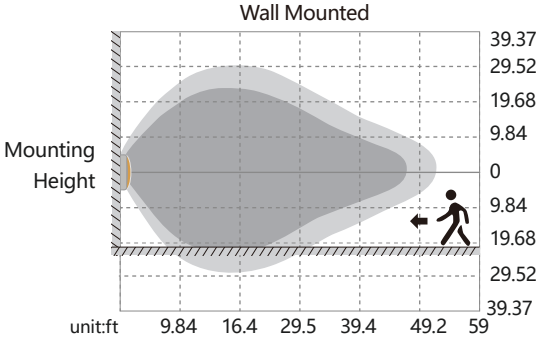
This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Well Detected Area Possibly Detected Area

Ceiling Mounted



Wall Mounted



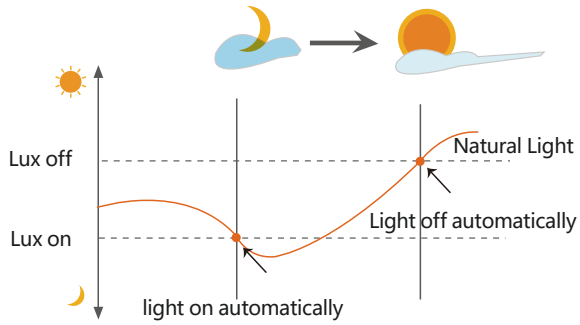
PERFORMANCE

1.Dusk/Dawn function

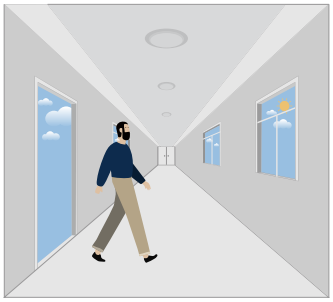
The sensor is a able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Please follow below setting steps to perform this function:

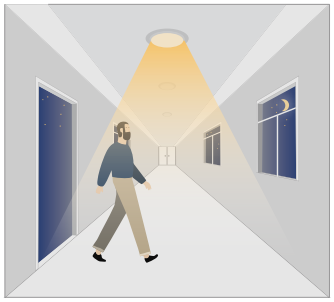
1. STANDBY DIM LEVEL as any of 10% 20% 30%
2. STANDBY PERIOD as infinite
3. DAYLIGHT as any of 30Lux / 50Lux / 80Lux / 120Lux / 200Lux / 250Lux / 300Lux / 350Lux / 400Lux



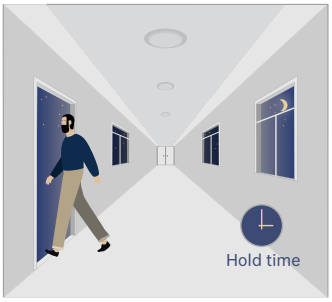
2.Automatically ON/OFF function



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



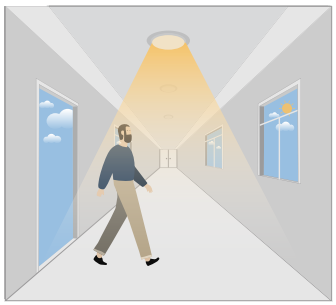
With insufficient daylight, the sensor turns light ON when motion gets detected.



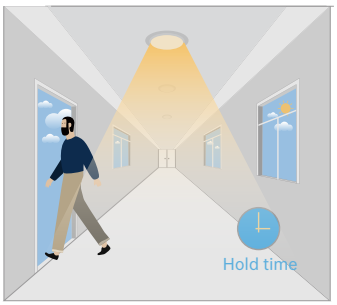
The sensor turns OFF light automatically after the holdtime when there's no motion detected.

3.Daylight Disable

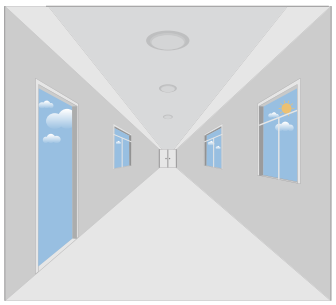
When daylight threshold is preset as "disable", the sensor turns light ON when motion gets detected, and OFF after holdtime.



The sensor turns light ON when motion gets detected.

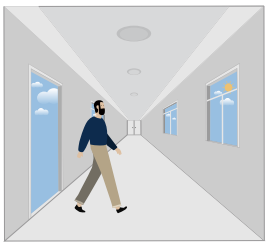


The sensor keeps light ON for holdtime period after motion leaves.



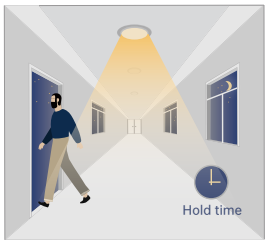
The sensor turns OFF light automatically after the holdtime.

4. Corridor Function, Bi-level Dimmable

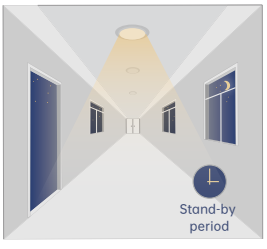


With sufficient daylight, the sensor keeps light OFF even motion gets detected.

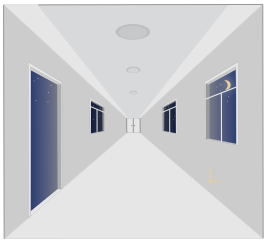
With insufficient daylight, the sensor turns light ON when motion gets detected.



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.

FACTORY SETTING

1. Detection Area - 100%
2. Holdtime - 5S
3. Daylight Threshold - disable
4. Standby Period - 0S
5. Standby Dimming Level - 10%

Attention

1. The sensor should be installed by qualified electrician and ensure power is OFF before installation.
2. Please read the instruction carefully before using the product and keep it well for other users to read any time.
3. We reserve the right to modify any incorrect text, image and technical parameters.
4. Any unauthorized modification is forbidden. Otherwise all guarantees will be imme diately invalid.
5. Product could be optimized without prior notice.

APPLICATION NOTES

1. Suitable for indoor application, half/completely outdoor environment conditions might be captured as moving signals to trigger the sensor.

2. Suitable for ceiling mount installation, adjust sensitivity properly if it's installed on side-wall because it gets more sensitive.

3. Adjust sensitivity properly when the sensor is applied in small/narrow/metal-built/with metal spaces.

4. Microwave sensor can't be placed under/inside metal shell; Microwave module must directly face the detection area with edge lower than light fixture.

5. Keep the sensor away from vibration equipments, air-conditioning outlets, smoke extractors alike conditions to avoid unwanted trigger.

6. Keep the sensor module away from AC input and DC output to avoid high/low frequency signal interference.

7. At least 2m/6.5ft distance between microwave sensors; 1.5m/4.9ft between the sensor and other wireless devices such as routers to avoid possible radio interference.

8. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.

9. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.

10. Input power voltage must be stable with float less than 10%.

11. The first time powered ON sensor, light will be ON 100% for about 10S then dims to standby level or OFF.

12. Distance detection is delivered by testing person about 165cm in open area as reference, the result differs by size and speed of moving objects, mountng height and real-life situation.