

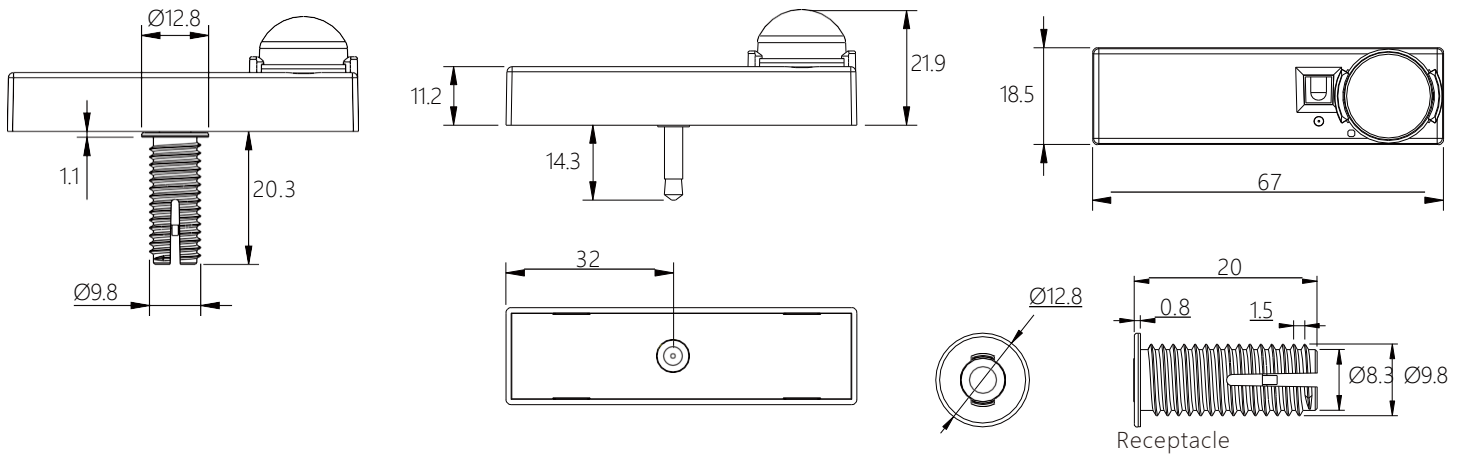
ITEM TYPE:	PIR SENSOR (BLUETOOTH & REGULAR)
NOTES:	
UPDATED DATE:	Sep, 2023



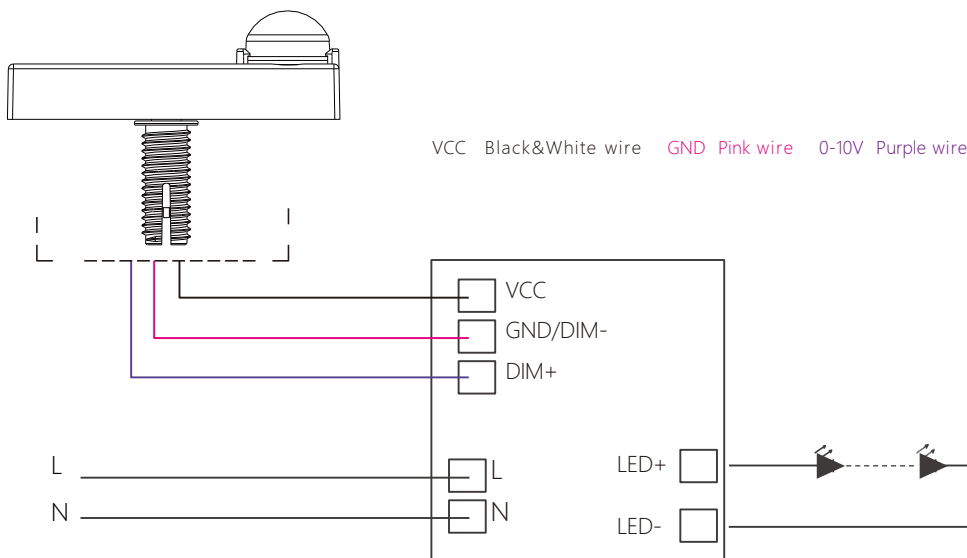
HD08VR PIR Sensor

- NLC/DLC Qualified Product
- Tiny PIR Sensor with/out Bluetooth-Mesh, Microwave Version Interchangeable.
- Audio-Jack Classic Connection, 0-10V Dimming, with Daylight Harvesting
- Suitable for Indoor Lighting, Panel, Troffer etc.

Dimensions Unit:mm




Wiring Diagram



Parameters

Model NO.		HD08VR
PIR INFORMATION	Warm-up Period	10S
	Installation Height	4m/13.12 Max.
	Detection Distance	Radius 2-4m
	Detection Angle	Fresnel Lens $\leq 120^\circ$ Fresnel Lens 360° Ceiling Mounted
SENSOR PARAMETER	Detection Area	25%/50%/75%/100%
	Holdtime	Remote control Options: 5s/ 30s/ 1min/ 3min/ 5min/ 10min/ 20min/ 30min APP Control Options: 5s/ 30s/ 1min/ 2min/ 3min/ 5min/ 10min/ 15min/ 20min/ 25min/30min/ 45min/ 60min/ 90min/ 120min
	Daylight Threshold	Disable/400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/ 80Lux/50Lux/30Lux/10Lux/2Lux
	Standby Dimming Level	10%/20%/30%/50%
	Standby Period	Remote control Options: 0s/ 10s/ 30s/ 1min/ 5min/ 10min/ 30min/ 60min/ + ∞ APP Control Options: 0s/5s/30s/1min/2min/3min/5min/10min/15min/20min/ 25min/30min/45min/60min/+ ∞
	Dusk/Dawn Sensing/ Photocell	Daylight threshold as 30lux/ 50lux/ 80lux/ 120lux/ 200Lux/ 250Lux/300Lux/ 350Lux/ 400Lux Standby period as + ∞ ; Standby dimming level as 10%/20%/30%
	Daylight Harvesting	1. Adjust "daylight" value higher than 50lux 2. Preset "standby period" 0S 3. press MW/PIR button 3 times till MW/PIR icons both blinking on LCD screen, daylight harvesting function enabled. (With BLE version, press DH button, daylight harvesting function enabled.)
	Dimming Play	Manually dim (10%-100%) , Sensor mode (60%-100%)
BLUETOOTH INFORMATION	Wireless Control Range	>20m/65ft
	APP Download	Supported in both APP Store and Google Play Market
INPUT	Input Range	12VDC
	Voltage Range	10-15VDC
	Current	<15mA
OUTPUT	Signal	DIM 0-10V
	Connection	TipDIM+, RingVCC, SleeveGND
	Stand-by Power	<0.5W
ENVIRONMENT	Working Temp	-25°C~+60°C
	Storage Temp	-40°C~+80°C Humidity: 85% (non-condensation)
CERTIFICATE & STANDARDS	Environmental Requirements	In accordance with CE ROHS
	IP Rating	IP20

Ordering Guide

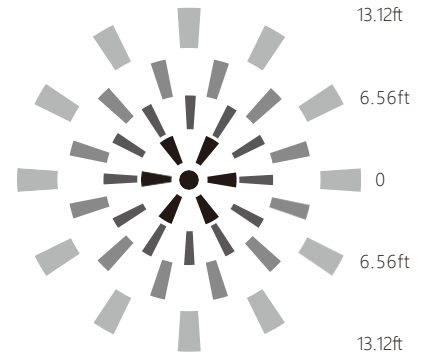
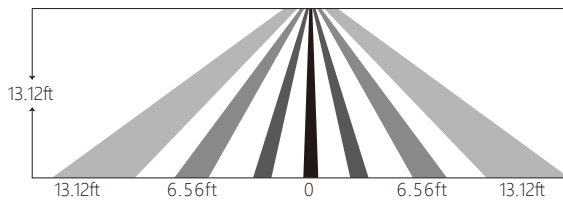
Model Number	Sensor Type	Connector	Controller	Fixtures match
HD08VR-P-1	PIR	Audio Jack	Remote Control HD05R	Different with regular fixtures, it requires Hilux audio-jack interface fixtures.
HD08VR-PB-1 			HAISEN BLUE APP	

Detection Coverage

HD08VR

Mounting Height
<4m/13.12 Ceiling Mounted

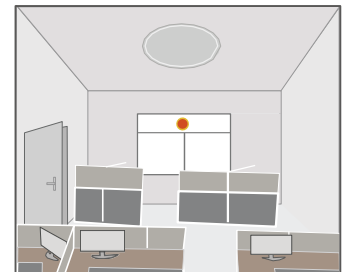
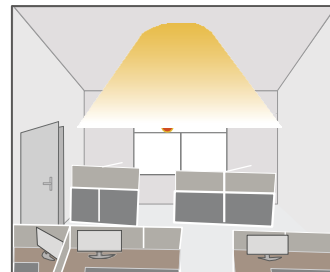
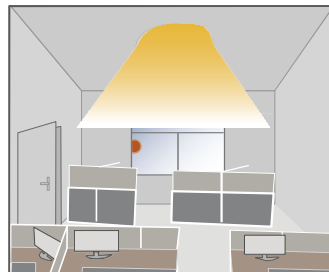
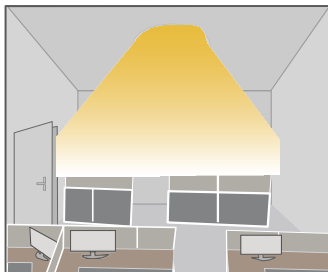
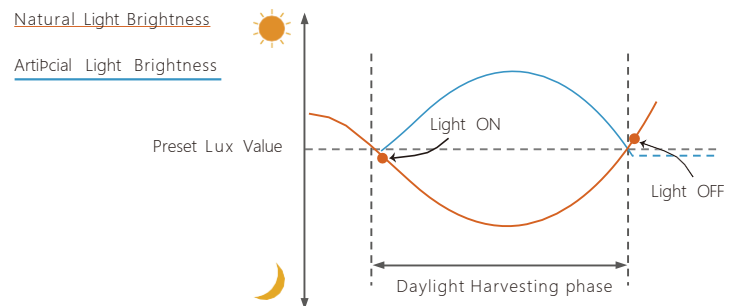
Detection Distance
Radius 2-4m/6.56-13.12ft



Performance

1. Daylight Harvesting

1. Adjust "daylight" value higher than 50lux
 2. Preset "standby period" 0S
 3. press MW/PIR button 3 times till MW/PIR icons both blinking on LCD screen, daylight harvesting function enabled.
- (With BLE version, press DH button, daylight harvesting function enabled.)



When ambient brightness is lower than preset lux level, sensor will turn on light automatically and keep dimming according to the change of the ambient brightness; when outside is getting darker, the inside will be brighter, and brighter darker.

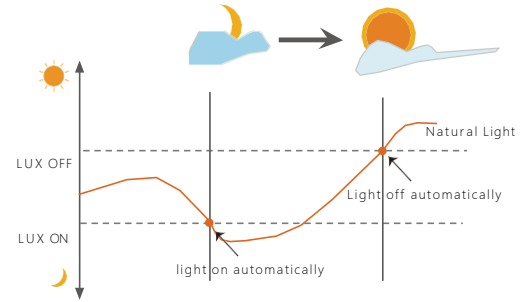
Light OFF when ambient brightness becomes higher than the preset lux level.

2. Dusk/Dawn function

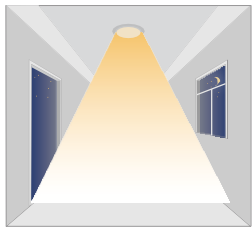
HD08VR is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Precondition of Dusk/Dawn function:

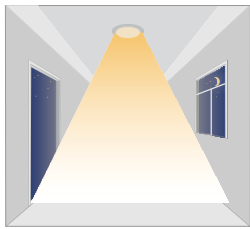
1. Standby period is +∞;
2. Standby dimming level is on 10%, 20% or 30%;
3. Daylight threshold is on 30lux/ 50lux/ 80lux/ 120lux/ 200Lux/ 250Lux/ 300Lux/ 350Lux/ 400Lux



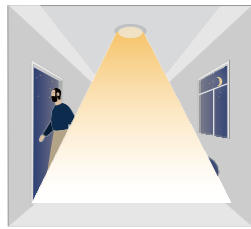
3. With Dusk/Dawn function



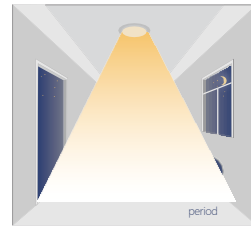
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or presence.



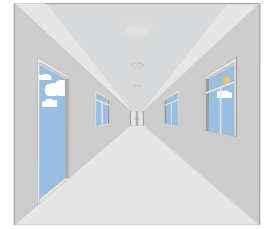
When sensor detects motion or presence it will bring the light level up to 100%.



After motion is no longer detected, fixture remains at 100% for hold time.

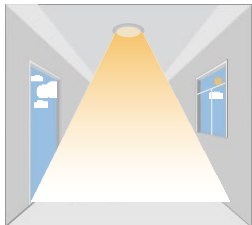


After pre-set hold time period it will dim light to standby dimming level again and always keep it.

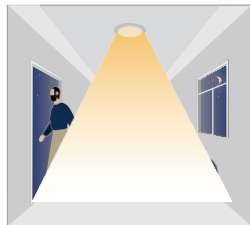


With sufficient ambient brightness, sensor will turn OFF light automatically.

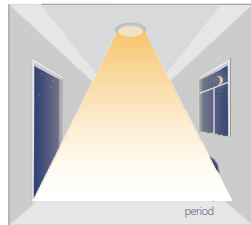
4. Without daylight disabled



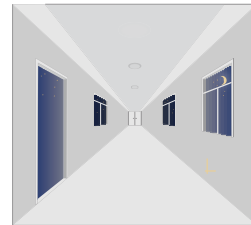
Sensor turns ON light when motion is detected.



Sensor keeps for a hold time period after motion leaves

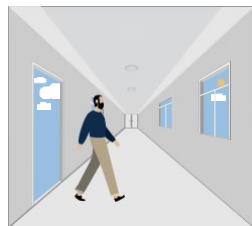


Sensor dims light to standby dimming level after hold time if there is still no motion

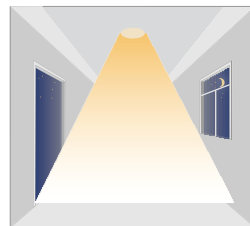


Sensor turns OFF light after standby period

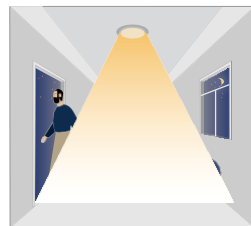
5. With Daylight Threshold



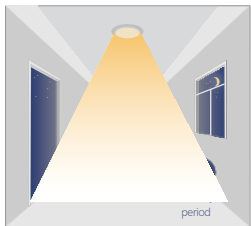
With sufficient daylight, the sensor keeps light OFF even motion gets detected



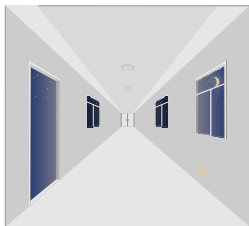
With insufficient daylight, the sensor turns light ON when motion gets detected



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. if the standby period has been set as 0s, sensor turns light OFF automatically after holdtime.



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



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 immediately invalid.
5. Product could be optimized without prior notice.

* When ambient temperature approaches the human body classic temperature range (36°C ~37°C/96.8~98.6°F), PIR sensor's detecting performance will significantly weaken or non-responsive.

* When ambient temperature stays higher than 40°C/104°F, PIR sensor's detecting performance will significantly weaken.

APPLICATION NOTES

1. Suitable for indoor application, half/completely outdoor environment conditions might 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. PIR sensor can't be placed inside any material, fresnel lens must be completely exposed in air.
4. Fresnel lens of the PIR sensor must be lower than light fixture.
5. Not suitable environment if there's sudden changed temperature of airflow for PIR sensor.
6. Not suitable environment if there's shelves blocking between the sensor and presence area.
7. Detection area options may NOT work obviously because it works depends on fresnel lens, it's physically defined.
8. Detection distance performance works better when moving parallelly than moving towards to the sensor.
9. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.
10. Dimming performance differs when connected to different drivers; if the driver can't completely turn OFF, sensor can't either.
11. Input power voltage must be stable with float less than 10%.
12. The first time powered ON sensor, light will be ON 100% for about 45S then dims to standby level or OFF.
13. Distance detection is delivered by testing person about 165cm in open area as reference, the result differs by size and speed of moving objects, mounting height and real-life situation.