PRODUCT SPECIFICATION

MODEL NO	HD08VR PIR Series
INPUT	12VDC
DESCRIPTION	PIR SENSOR (BLUETOOTH & REGULAR)

PIR SENSOR
(BLUETOOTH & REGULAR)

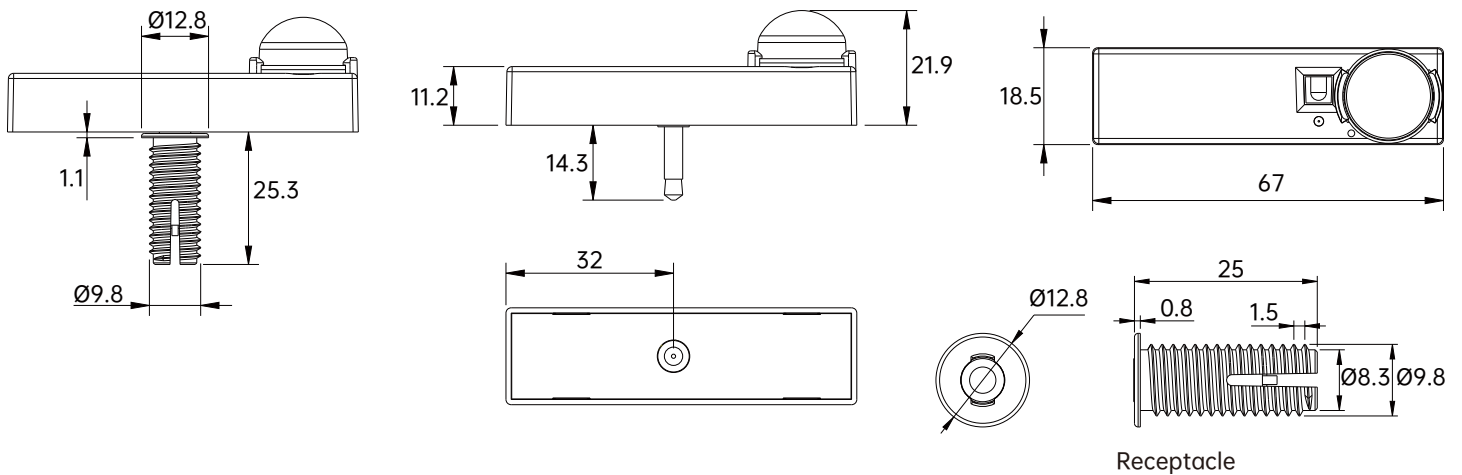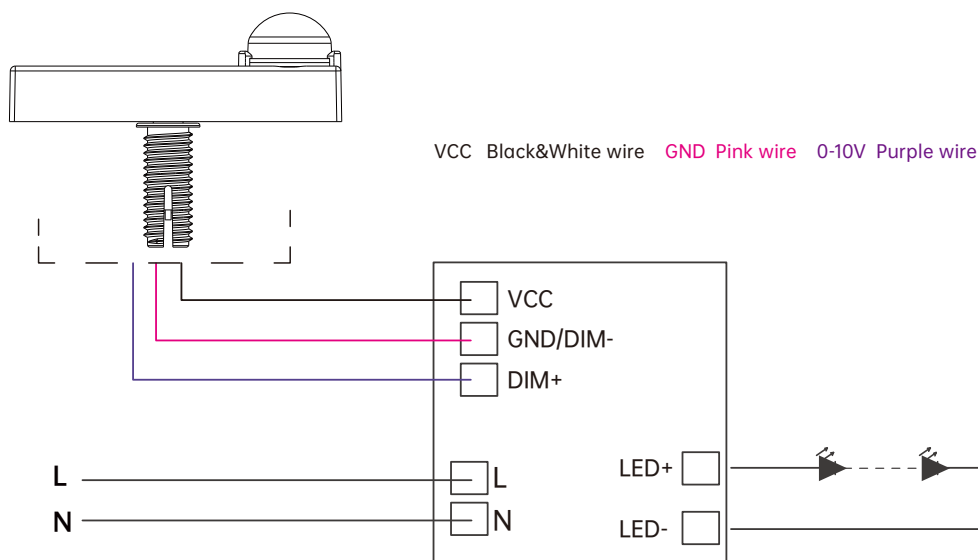| WRITTEN BY	夏勇
CHECKED BY (R&D)	周蕃
CONFIRMED BY (SALES)	陈启东
DATE	2023.05.02

Features & Benefits

HD08VR PIR Series

· 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.

Demensions Unit:mm

Ø12.8
11.2
21.9
18.5
1.1
25.3
14.3
Ø9.8
67
32
25
Ø12.8
0.8
1.5
Ø8.3 Ø9.8

Receptacle

Wiring Diagram

VCC   Black&White wire   GND Pink wire   0-10V Purple wire

VCC
GND/DIM-
DIM+

L
N

LED+
LED-

Parameters

| Model NO.		HD08VR
PIR INFORMATION	Warm-up Period	10S
	Installation HeightInstallation Height	4m/13.12 Max.
	Detection Distance	Radius 2-4m
	Detection Angle	Fresnel Lens ≤120° Fersnel Lens 360° Ceiling Mounted
SENSOR PARAMETER	Detection Area	25%/50%/75%/100%
	Holdtime	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	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 blicking on LCD screen, daylight harvesting function enabled. (With BLE verison, 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℃~+60℃
	Storage Temp	-40℃~+80℃ Humidity: 85% (non-condensation)
CERTIFICATE & STANDARDS	Environmental Requirements	In accordance with CE ROHS
	IP Rating	IP20

Model Information

Model Number	Sensor Type	Connector	Controller
HD08VR-P-1	PIR	Audio Jack	Remote Control HD05R
HD08VR-PB-1			HAISEN BLUE APP

Detection Coverage

HAISEN®

HD08VR

Mounting Height
<4m/13.12 Ceiling Mounted

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

13.12ft

13.12ft

13.12ft   6.56ft   0   6.56ft   13.12ft

13.12ft

6.56ft
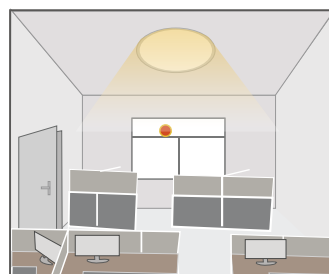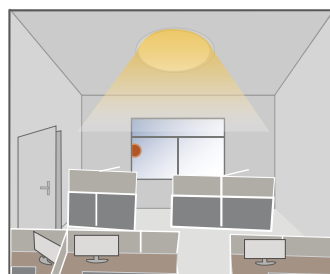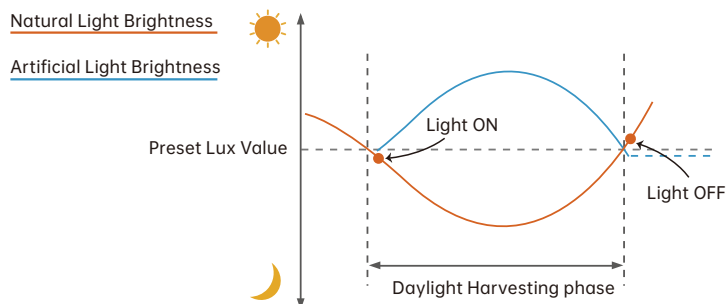
0

6.56ft

13.12ft
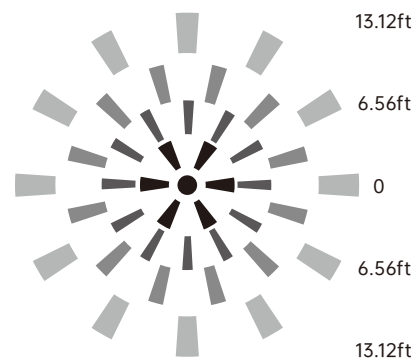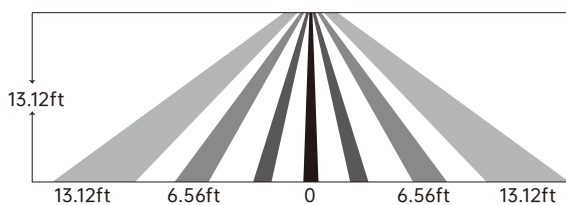
Performance

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 blicking on LCD screen, daylight harvesting function enabled. (With BLE verison, press DH button, daylight harvesting function enabled.)

Natural Light Brightness

Artificial Light Brightness

Preset Lux Value

Light ON

Light OFF

Daylight Harvesting phase

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.

Header logo HAISEN®

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

LUX OFF — Natural Light / Light off automatically
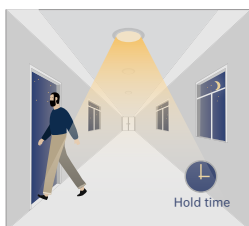
LUX ON — light on automatically
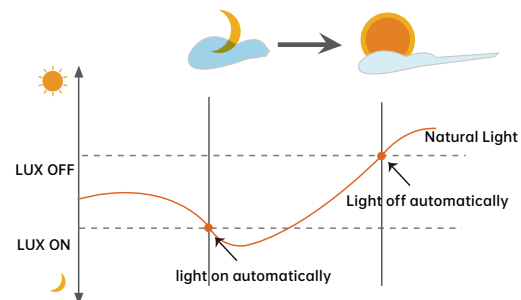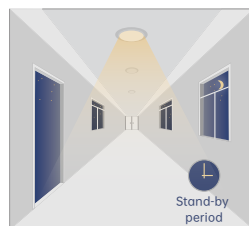
3. With Dusk/Dawn function
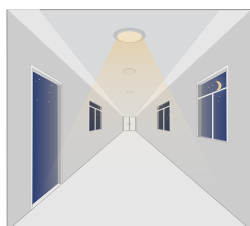
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or persence.
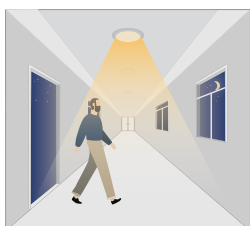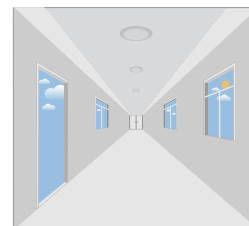
When sensor detects motion or presence it will bring the light level up to 100%.

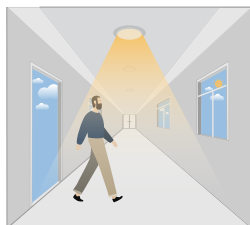After motion is no longer detected,fixture remains at 100% for hold time.

After pre-set hold time period it will dim light to standby dimming level again and always keep it.
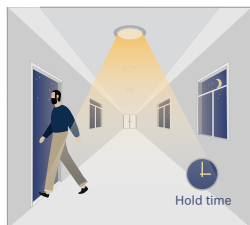
With sufficient ambient brightness, sensor will turn OFF light automatically.
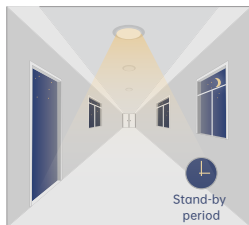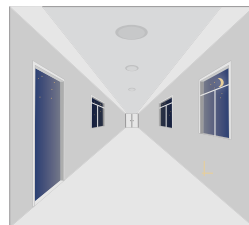
4. Without daylight disabled

Sensor turns ON light when motion is detected.

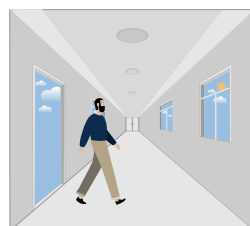Sensor keeps for a hold time period after motion leaves

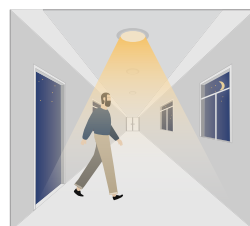Sensor dims light to standby dimming level after hold time if there is still no motion

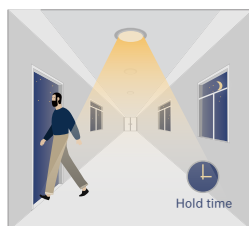Sensor turns OFF light after standby period

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.
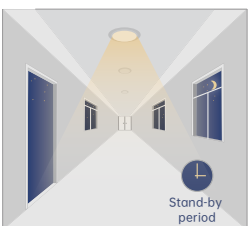
After holdtime, sensor dims light to standby dimming level for standby period. if the standby period has been set as 0s, sensor turns light OFF automatically after holdtime.

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.

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 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 working 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, mountng height and real-life situation.