

UFOHJ High Bay Datasheet



Key Features

- ⇒ Efficacy: Up to 160 lm/w
- ⇒ LED Chip: SMD2835
- ⇒ SDCM: <5
- ⇒ Adjustable CCT and Adjustable Power
- ⇒ Beam Angle: 60° | 90° | 120° PC lens
- ⇒ IP Rating: IP65
- ⇒ Controls: Microwave | Daylight | Infrared sensor
- ⇒ Installation: Eye Bolt; Bracket
- ⇒ Certifications: CE, RoHS
- ⇒ Warranty: 5 years

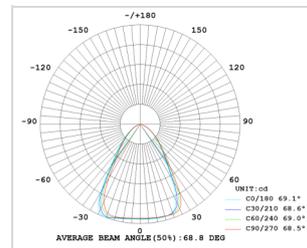
Application

Warehouses, libraries, workshops, shopping malls, supermarkets, shops, restaurants, sports centers, cinemas, hospitals, clothing stores, bars and other indoor lighting places.

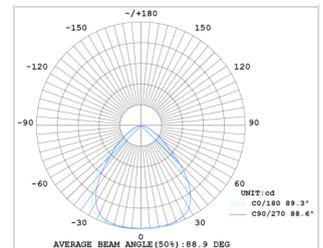


Photometry

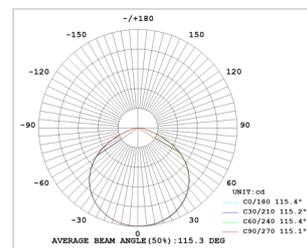
60° PC lens



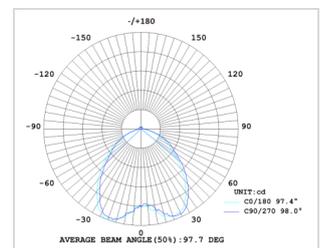
90° PC lens



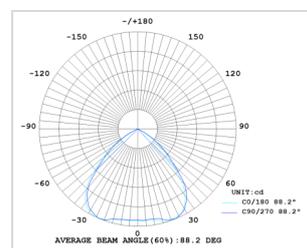
120° PC lens



90° PC Reflector



90° AL Reflector



UFOHJ High Bay Datasheet

Product Data

| Model No. | KML-UFOH100J | KML-UFOH150J | KML-UFOH200J | KML-UFOH240J | KML-UFOH300J |
|-----------------------|--|---------------|----------------|----------------|--------------|
| Power | 100W | 150W | 200W | 240W | 300W |
| Adjustable Power | 60W 80W 100W | 80W 100W 150W | 100W 150W 200W | 150W 200W 240W | / |
| Lumen Output | 16,000lm | 24,000lm | 32,000lm | 38,400lm | 48,000lm |
| Luminous Efficacy | 160 lm/w (adjustable CCT: 130 lm/w to 150 lm/w) | | | | |
| CCT | 3000K 4000K 5000K 5700K 6500K; Adjustable CCT: 3000K 4350K 5700K | | | | |
| CRI | Ra≥70 (Ra≥80 optional) | | | | |
| Input Voltage | 100-277 VAC | | | | |
| Housing Color | Black | | | | |
| Housing Material | Aluminum(ADC12), PC | | | | |
| Operating Temperature | -20°C to +50°C | | | | |
| Operating Humidity | 10% to 90% RH | | | | |
| Lifespan | 100,000 hours | | | | |
| Warranty | 5 years | | | | |

ErP Technical Specification

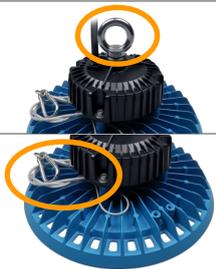
| Item | Specification/Data |
|--------------------------------------|----------------------|
| Efficiency In | >93% |
| Power Factor | PF>0.90 |
| Energy Efficiency Class | D |
| Standard Deviation of Color Matching | <5 |
| Starting Time | <0.2S |
| Warm-up Time to 60% | <0.5S |
| Lumen Maintenance at e.o.l. | >70% |
| Lifetime | L70/B10@100,000hours |

**Note: 1. The above parameters will have errors within the allowable range of relevant standards.
2. This specification book is for reference only. We retains the right to optimize and modify without pre -notification!**



UFOHJ High Bay Datasheet

Mounting & Accessories

| | |
|---|--|
|  | Eye Bolt Model No.: M10 Steel; Silver |
| | Safety Rope Model No.: UFO-SR Stainless Steel; Silver |

Mounting (optional)

| | |
|---|--|
|  | Bracket Model No.: UFOHJ-ZJ Steel; Black |
|  | Remote Control Model No.: RC100 Plastic; black |
|  | Microwave & Daylight Sensor Model No.: ANT-5-4 PC; Milky white |
|  | Connecting Base Model No.: ANT-5-4B PC; Milky white |
|  | Infrared Sensor Model No.: ANT-6-2 PC; Milky white |
|  | AL Reflector Model No.: UFOHA1-DZ; Beam Angle: 90°; Applicable Power: 100W 150W 200W 240W 300W Aluminum; Silver |
|  | PC Reflector Model No.: 310A(100W); 410C(150W); 500A(200W 240W 300W) PC; Transparent & Stripe |
|  | PC Reflector Cover Model No.: 310CBL(310A) 410CBL(410C) 500CBL(500A) PC; Transparent & Stripe |

UFOHJ High Bay Datasheet

Packaging

| Model No. | PCS/CTN | N.W | G.W | Volumetric Weight | Carton Size and Volume | 20GP(28m³) | 40HC/HQ(68m³) |
|--------------|---------|--------|--------|-------------------|------------------------------|------------|---------------|
| KML-UFOH100J | 1 | 1.9 kg | 2.5 kg | 2.6 kg | L285xW285xH160 mm ≈ 0.013 m³ | 2,153 CTNS | 5,230 CTNS |
| KML-UFOH150J | 1 | 2.3 kg | 3.0 kg | 4.0 kg | L338xW338xH170 mm ≈ 0.019 m³ | 1,473 CTNS | 3,578 CTNS |
| KML-UFOH200J | 1 | 3.1 kg | 3.9 kg | 5.2 kg | L390xW390xH170 mm ≈ 0.026 m³ | 1,076 CTNS | 2,615 CTNS |
| KML-UFOH240J | 1 | 3.6kg | 4.7 kg | 8.0 kg | L445xW445xH190 mm ≈ 0.038 m³ | 736 CTNS | 1,789 CTNS |
| KML-UFOH300J | 1 | 3.9 kg | 5.0 kg | 8.0 kg | L445xW445xH190 mm ≈ 0.038 m³ | 736 CTNS | 1,789 CTNS |

Remarks: The weight of the above products is for reference only, and the weight of different configuration products will be different.

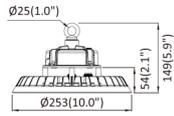
Packaging (PC reflector and cover)

| Model No. | PCS/CTN | N.W | G.W | Volumetric Weight | Carton Size and Volume | 20GP(28m³) | 40HC/HQ(68m³) |
|-----------|---------|-------------|---------|-------------------|---------------------------|------------|---------------|
| 310A | 24 | 0.48 kg/pcs | 13.0 kg | 20.0 kg | L620xW330xH490 ≈ 0.100 m³ | 280 CTNS | 680 CTNS |
| 410C | 13 | 0.88 kg/pcs | 13.0 kg | 22.2 kg | L430xW430xH600 ≈ 0.111 m³ | 252 CTNS | 612 CTNS |
| 500A | 13 | 1.54 kg/pcs | 22.0 kg | 32.5 kg | L500xW500xH650 ≈ 0.163 m³ | 171 CTNS | 417 CTNS |
| 310CBL | 100 | 0.16 kg/pcs | 18.0 kg | 11.0 kg | L500xW330xH330 ≈ 0.054 m³ | 518 CTNS | 1,259 CTNS |
| 410CBL | 25 | 0.34 kg/pcs | 10.0 kg | 5.6 kg | L430xW430xH150 ≈ 0.028 m³ | 1,000 CTNS | 2,428 CTNS |
| 500CBL | 25 | 0.54 kg/pcs | 15.0 kg | 7.5 kg | L500xW500xH150 ≈ 0.038 m³ | 736 CTNS | 1,789 CTNS |

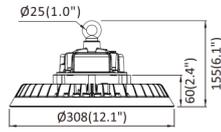
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UFOHJ High Bay Datasheet

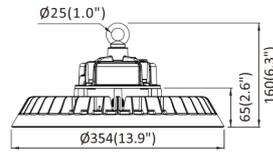
Dimension (unit: mm/inch)



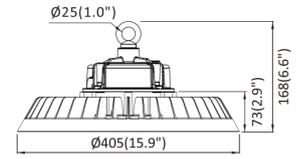
KML-UFOH100J



KML-UFOH150J

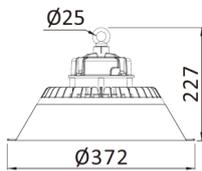


KML-UFOH200J

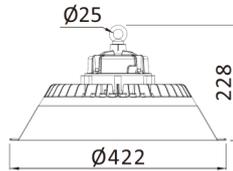


KML-UFOH240J | KML-UFOH300J

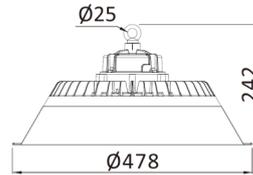
And AL Reflector Dimension (unit: mm)



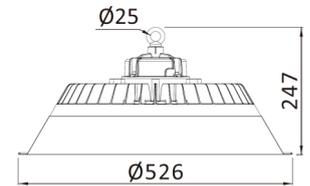
UFOH100A1-DZ



UFOH150A1-DZ

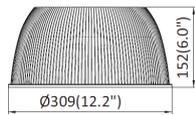


UFOH200A1-DZ

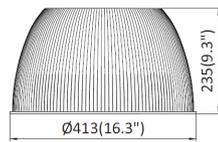


UFOH240A1-DZ / UFOH300A1-DZ

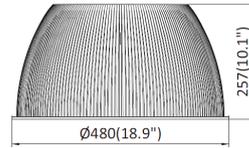
PC Reflector Dimension (unit: mm)



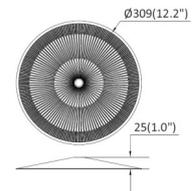
310A



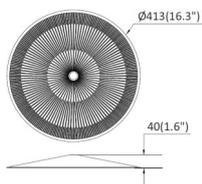
410C



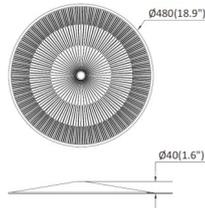
500A



310CBL



410CBL



500CBL

UFOHJ High Bay Datasheet

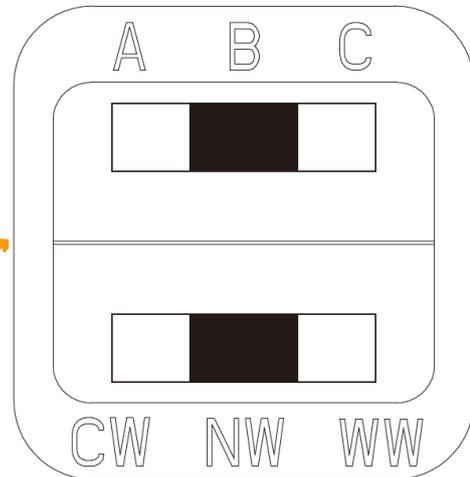
DIP Switch Details



Features

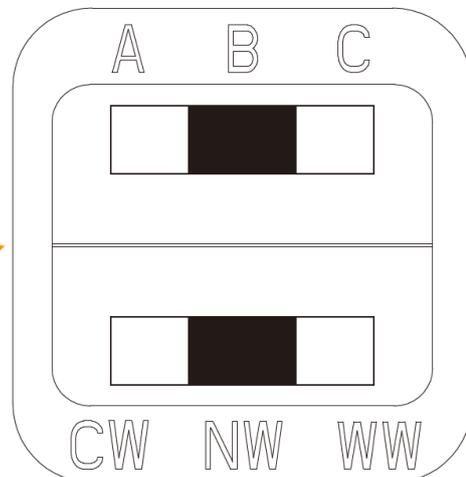
- ⇒ When the DIP switch is in the BHD state, the power and color temperature can be adjusted.
- ⇒ When the DIP switch is in the BHB state, the power can be adjusted.

**BHD: DIP power adjustment and
DIP color temperature**



**A: 200W, B:150W, C:100W
CW: 5700K, NW: 4350K, WW: 3000K**

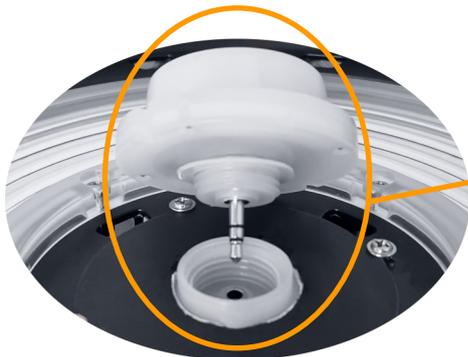
BHB: DIP power adjustment



**A: 200W, B:150W, C:100W
CW: none, NW: none, WW: none**

UFOHJ High Bay Datasheet

Microwave Sensor Details



Features

- ⇒ Patent plug-in design structure, sensor part can be easily mount after sale.
- ⇒ IP65 water-proof, long detection range when install 15m height.
- ⇒ Easy to wire inside sensor by screw terminals.

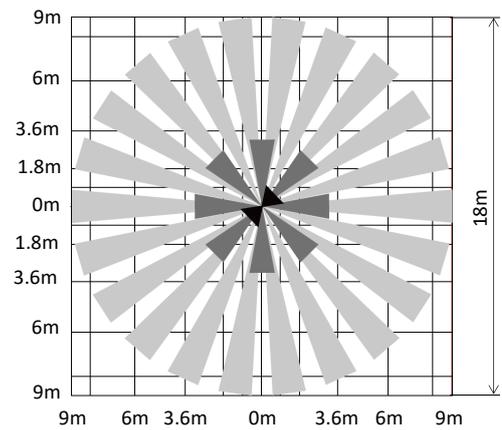
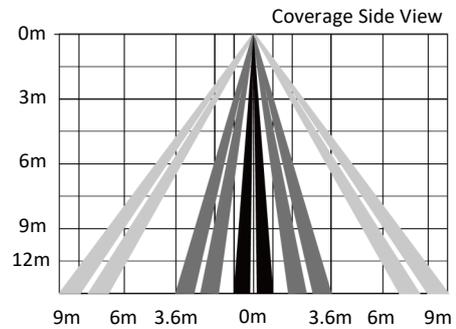
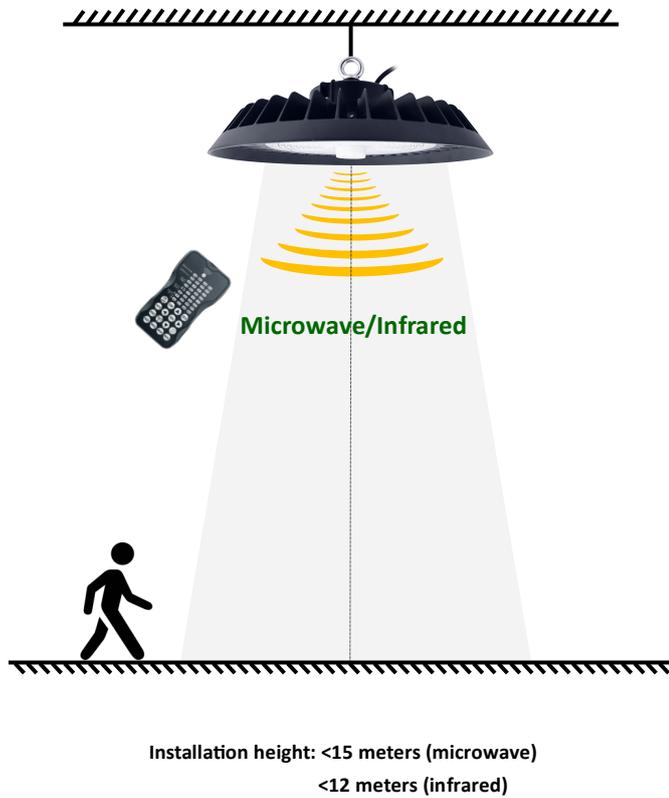


Plug & Play Motion Sensor.

Regular Model.

UFOHJ High Bay Datasheet

Microwave Sensor Details



Technical Specification

| Items | Specifications |
|----------------------------|--|
| HF System | 5.8GHz \pm 75MHz |
| Detection radius(1m to 8m) | 20%/50%/75%/100% |
| Mounting height | <15 meters |
| Time setting | 2S/1min/5min/10min/15min/20min/30min/60min |
| Light-control | 24hours/10lux/30lux/50lux |

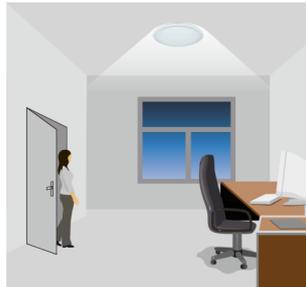
Microwave Sensor Details

Corridor Function

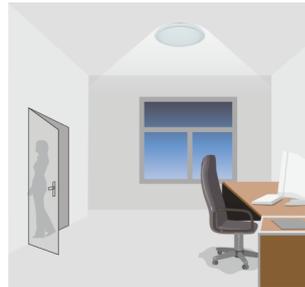
This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before Switch-off. The sensor offers 3 levels of light: 100% → dimmed light (natural light is insufficient) → off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; selectable daylight threshold and freedom of detection area.



With sufficient natural light, the light does not switch on when presence is detected.



With insufficient natural light, the sensor switches on the light automatically when presence is detected.



After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.



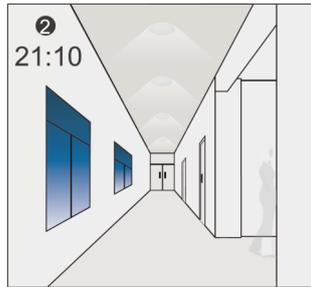
Light switches off automatically after the stand-by period elapses.

Daylight Sensor Function

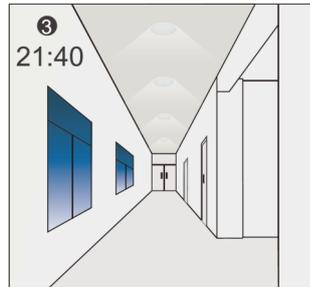
Open the daylight sensor by push  when remote control is in setting condition.



The light switches on at 100% when there is movement detected.

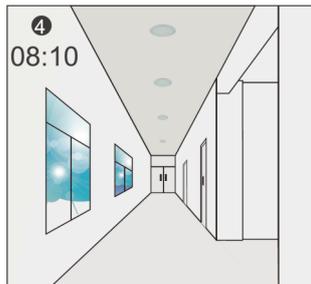
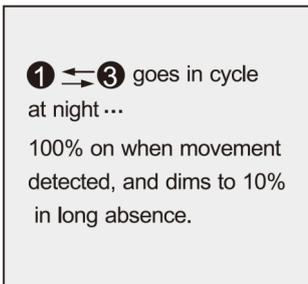


The light dims to stand-by level after the hold-time.

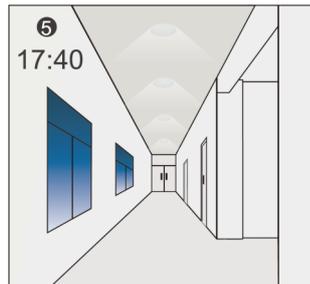


The light remains in dimming level at night.

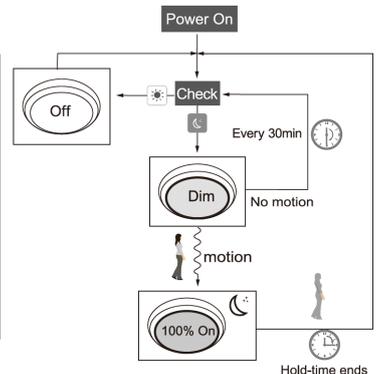
Settings on this demonstration:
 Hold-time: 30min
 Setpoint on: 50lux
 Setpoint off: 300lux
 Stand-by Dim: 10%
 Stand-by period: +∞
 (When the smart photocell sensor open, the stand-by time is only +∞)



When the natural light level exceeds setpoint off to light will turn off even if when the space is occupied.



The light automatically turns on at 10% when natural light is insufficient (no motion).



UFOHJ High Bay Datasheet

Infrared Sensor Details



Warning

- ⇒ Warm up time is 15 seconds. After the sensor connects input power first time, the light will keep on 15 seconds, then go to dimming to work normally.
- ⇒ Factory Default Setting: 100% sensitivity, hold on time 5minutes, daylight sensor is sunshine, dimming level 30%, dimming time 60 minutes.
- ⇒ Any setting changed by remote control, the led light that sensor connect will on/off as confirm.

Technical Specification

| Items | Specifications |
|----------------------------|---|
| Remote range | <15 meters, indoor, no backlight |
| Detection radius(1m to 8m) | 20%/50%/75%/100% |
| Mounting height | <12 meters |
| Time setting | 10S/1min/5min/10min/15min/20min/30min/60min |
| Light-control | 24hours/10lux/30lux/50lux |

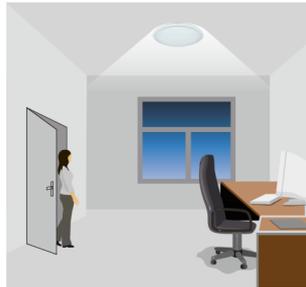
Infrared Sensor Details

Corridor Function

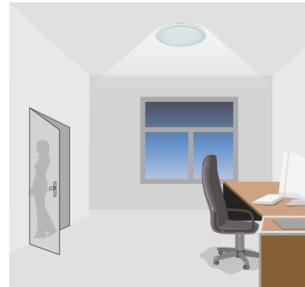
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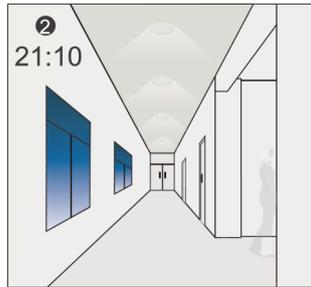
Light switches off automatically after the stand-by period elapses.

Daylight Sensor Function

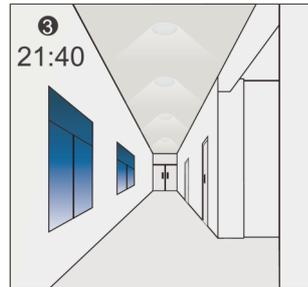
Open the daylight sensor by push  when remote control is in setting condition.



The light switches on at 100% when there is movement detected.

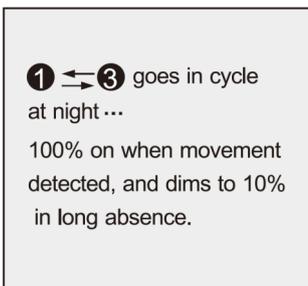


The light dims to stand-by level after the hold-time.

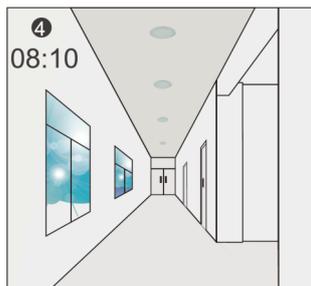


The light remains in dimming level at night.

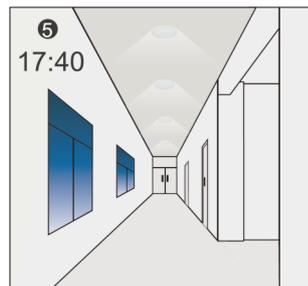
Settings on this demonstration:
 Hold-time: 30min
 Setpoint on: 50lux
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 Stand-by Dim: 10%
 Stand-by period: +∞
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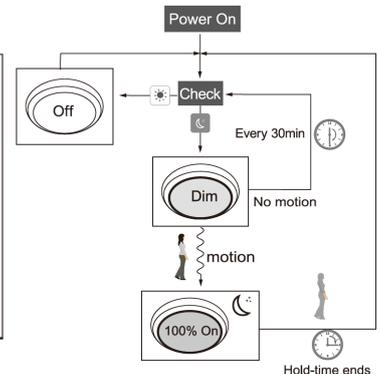
① ↔ ③ goes in cycle at night ...
 100% on when movement detected, and dims to 10% in long absence.



When the natural light level exceeds setpoint off to light will turn off even if when the space is occupied.



The light automatically turns on at 10% when natural light is insufficient (no motion).



UFOHJ High Bay Datasheet

Remote Control Description



Product Data

Power supply: 2xAAA 1.5V battery, Alkaline preferred

Carrying case: UFOHJ-RC100 in carrying case

Communication: 940 nm Infrared Tx & Rx

Upload range: up to 15m (50 ft.)

Op. temperature: 0°C to +50°C (32°F to 122°F)

Dimensions: 123x70x20.3mm(4.84"x2.76"x0.8")

Warning

Remove the batteries from compartment if the remote will not be used in 30 days.

Overview

The "RC100" Wireless IR Configuration Tool is a handheld tool for remote configuration of IR-enabled fixture integrated sensors.

The tool enables device to modify via pushbutton without ladders or tools, and stores up to four sensor parameter modes to speed configuration of multiple sensors.

The "RC100" uses bidirectional IR communication to send and receive sensor settings at mounting height up to 50 feet. The device can display previously established sensor parameters, copy parameters and send new parameters or store parameter profiles. For projects where identical settings may be desired across a large number of areas or spaces, this capability provides a streamlined method of configuration. Settings can be copied throughout a site, or in different sites.



UFOHJ High Bay Datasheet

Remote Control Description

| KEY | FUNCTION | KEY | FUNCTION |
|---|--|--|---|
|  | Press the on/off button, the light goes to permanent on or permanent off mode, the sensor is locked, MUST Press "AUTO" to quit from this mode. |  | Press "Auto" button, the sensors start to work automatically and all parameters remain the same as the latest status in auto mode. |
|  | Display current parameters |  | The button "Test" is for testing purpose sensitivity only. The sensor goes to test mode (hold time is only 2s) automatically after commissioning, meanwhile the stand-by period and daylight sensor are disabled. Press "AUTO" to quit from this mode. |
|  | upload the selected parameters to sensors | | |
|  | Enter in the setting condition and navigate to UP and Down |  | When the light level exceeds this setting, the lights will turn off even when the space is occupied. Once the light level exceeds this setting, the sensor will wait and monitor for 1 min in order to confirm the light level increase is not temporary before forcing the lights to go off. When light level goes below the settings, the light will turn on even without motion detection after 1 min. This feature is disabled by default. If you want to open this setting, just press  , choose daylight sensor setpoint on/off. |
|  | Navigate to Right and Left | | |
|  | Confirm selected parameters and saving | | |
|  | Default settings:       |     | Four modes with existing parameters which are available to be updated and saved in Modes |
| BRIGHTNESS | Adjust the light brightness during hold time. | DAYLIGHT SENSOR | Select  /10LUX/30LUX/50LUX/  threshold for sensor to turn light fixture ON. Select  , current surrounding lux value as daylight lux threshold, select  , the built-in daylight sensor stops working, and all motions detected could turn the light fixture on, no matter how bright the natural light is. |
| SENSITIVITY | Adjust sensor sensitivity | | |
| HOLD TIME | The time of light fixture remains at programmed 70%/80%/100% level after motion is not detected | STAND-BY DIM | Select the stand-by dimming level at 0%/10%/30%/50%; Note: "0%" means on/off control; |
| STAND-BY TIME | Select stand-by period at 1min/30min / 60min/+∞; Note: "+∞" means bi-level dimming control, fixture never switches off. | | |

NOTE:

The "RC100" is a universal remote programmer with ALL available settings and parameters for remote sensors. Some settings and parameters may not be available on specific type of sensor under certain control mode. Please refer to the installation instruction of the sensor for the available settings and control options.

COMMAND BUTTONS

THE COMMAND BUTTONS provides a quick selection of the following operations by pressing respective buttons.

- To turn on/off light manually, press "ON/OFF" button, the sensor is locked, MUST Press "AUTO" to quit from this mode.
- To test sensitivity only. Press "TEST" button, the sensor goes to test mode (hold time is only 2s) automatically after commissioning, meanwhile the stand-by period and daylight sensor are disabled. Press "AUTO" to quit from this mode.

Remote Control Description

- To send the current parameters to sensor ,aim to the sensor ,and press SEND button.

NOTE: any command button is pressed to sensor, the light will on one time and off as confirm.

SETTING

The SETTING Content contains all available settings and parameters for "RC-100" remote sensors. It allows you to change the available control, parameters, and operation of the sensor from factory default or current parameters.

NOTE:the setting works only in Auto mode.

Change multiple settings of sensor(s)

- 1.Press DISP button(if you push ON/OFF button before you push DISP button, the sensor is locked, so please push "AUTO" button to unlock the sensor ,and then push DISP button), the controller leds will show the latest parameters.
- 2.press ▲ or ▼ enter in the setting condition, navigate to the desired setting by pressing ▲▼◀▶ to select the new parameters.
- 3.press ok to confirm all setting and saving.
- 4.aim at the target sensor and press SEND to upload the new parameter. light will be one time and off , as confirm.

NOTE: 1.If you press DISP button, the remote control leds will show the latest parameters which were sent.

- 2.If you want to learn current surrounding lux value as daylight lux threshold, please choose ☞ when you select daylight sensor lux threshold.

Change multiple settings of sensor(s)(with daylight sensor on/off setpoint)

- 1.Press "DISP" , the remote control leds will show the latest parameters.
- 2.Press ▲▼◀▶ to Select the new parameter.
- 3.press ☒ ,daylight sensor off setpoint led in remote control will flash ,select daylight sensor setpoint for turn light off,and select daylight sensor setpoint for turn the light on .
- 4.press ok to confirm all setting and saving.
- 5.aim at the target sensor and press "SEND" to upload the new parameter.light will be one time and off as confirm.

NOTE: ☒ is disabled by default.

- 1.Open or close daylight sensor on/off setpoint, it only works when remote control in the setting condition, you just push ☒ , daylight sensor setpoint on/off setpoint will be close or open.
- 2-1.when daylight sensor works, the setpoint on lux must be 10lux,30lux,50lux,not ☞ , the light turn on when natural light lower than 10lux,30lux,50lux even without motion detection after 1min.
- 2-2:when daylight sensor works, the setpoint off lux must be 100lux,300lux,500lux,not ☞ , the light turn off when natural light exceeds than 100lux,300lux,500lux even with motion detection after 1min.
- 2-3: when daylight sensor works,the stand-by time is only ☞ .
3. ☒ is normal for outdoor using,not for indoor .

Remote Control Description

About RESET and MODE(1,2,3,4)

The "RC-100" comes with four MODES which are not default. You may make desired parameters and save as a new MODE(1,2,3,4) to configure the installed sensors.

RESET:

| MODE | BRIGHTNESS | SENSITIVITY | HOLD TIME | DAYLIGHT SENSOR | STAND-BY DIM | STAND-BY TIME |
|--------|------------|-------------|-----------|-----------------|--------------|---------------|
| MODE1 | 100% | 100% | 5m | | 30% | +∞ |
| MODE 2 | 70% | 20% | 10s | | 0% | +∞ |
| MODE 3 | 70% | 20% | 10s | | 0% | +∞ |
| MODE 4 | 70% | 20% | 10s | | 0% | +∞ |

Make a new Mode :

1. press / / / button, the remote control leds show existing parameters.
2. press / / / to select the new parameters.
3. if want to open/close daylight sensor lux setpoint on/off , press , select right lux setpoint.
4. Press "OK" to confirm all parameters and saving in the mode.

NOTE: if do not know existing parameters in / / / , repeat Step 1.

UPLOAD

The upload function allows you to configure the sensor with all parameters in one operation. You may select CURRENT SETTING parameters or the MODE for uploading. Current setting parameters or the MODE are displayed in "RC-100" Remote control .

Upload the current parameters to sensor(s), and duplicate the sensor parameters form one to another

1. Press Display button OR press / / / , all parameters are displayed in "RC100" Remote control.

Note: check if all parameters are correct , if not, change them.

2. Aim at the sensor and press "SEND" button , the light will be one time on and off , as confirm.

Note: if other sensors need same parameters, just aim at the sensor and press "SEND" button.