# GLOW UFO HIGHBAY

#### GLOWUFO-100CW/MS/EM





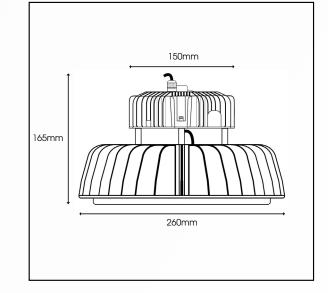


**TECHNICAL DRAWINGS** 

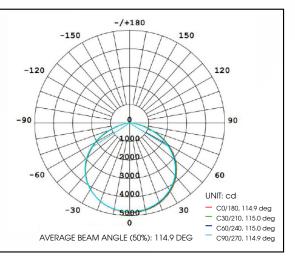
Specification	UFO Highbay-100CW	
System Power	100W (Emergency 5W)	
LED Chipset	Samsung	
Driver Manufacturer	Merrytek	
Colour Rendering Index	>85	
Lumen Output	14000Lm (Emergency 700Lm)	
LED Efficacy	140 Lm/cW	
Power Factor	>0.9	
IP Rating	IP65	
IK Rating	IK08	
Beam Spread	120 °	
Colour Temperature	6000K	
Housing Material	Aluminium	
Diffuser Type	Tempered Glass	
Operating Temperature	-20 to 65 °C	
Input Voltage	AC200-240V, 47-63H	
Weight	3.3kg (Net), 3.8kg (Gross)	
Dimensions	ø260mm x165mm	
MacAdam Step	<3	
Lifetime	50,000 hours, L70-B10 (Ta 25 °C)	
Emergency Output	3 Hours (5W)*	
CE Standards	EN60598-1, EN 60598 2-5, EN62493, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62722-1, EN62722-2-1 and EN50581	
CE Directives	LVD, EMC, ERP & RoHS	

\* Warranty terms and conditions apply

\*For emergency products with a rated service life of < 50.000 operating hours, QVIS offers a 5-year warranty period on the luminaire and 1-year warranty period on the battery pack



#### LUMINOUS INTENSITY DISTRIBUTION DIAGRAM





### 1. Features



- Operating voltage 120~277V AC,
- Patented microwave antenna, mounting height is
  15m Max
- Supports high-sensitivity and low-sensitivity modes (for metal ceilings, metal reflector mounting environments)
- Work with 1-10V dimmable LED driver, easy to achieve 2-step or 3-step dimming function.
- New patented remote control to adjust the transmitting angle to avoid misuse
- Dim+/Dim- to set occupany light level

	Operating Voltage Rage	108-305V AC, 50Hz/60Hz	
	DC Input Voltage	N/A	
Input	Rated Voltage	120-277Vac,60Hz	
mput	No-load Power	N/A	
	Stand-by Power	<1W	
Surge Test		LN: 1kV	
	Working Mode	ON/OFF function, 1-10V step dimming	
	Type of Load	Inductive or resistive Load	
Output	Load Capacity	120VAC: 4A; 220-277VAC: 3A	
Output	Current of Load	N/A	
	Max. Surge Capacity	50A (50% Ipeak, twidth =500uS, 230Vac full load, cold start);	
	Max. Surge Capacity	80A (50% Ipeak, twidth =200uS, 230Vac, full load, cold start)	
		< 50mA (Non-constant source)	
	1-10V Dimming	10%(1.4-1.6V), 20%(1.9-2.1V),	
Dim Interface		30%(2.9-3.1V), 50% (4.9-5.1V)	
Diminiciliaee	Synchronous Control	N/A	
	High Low-level	N/A	
	PWM Control	N/A	
	Operating Frequency	5.8 GHz ±75 MHz, ISM Band.	
	Transmitting power	0.5mW Max.	
Sensor	Hold time	5s/30s/1min/3min/5min/10min/20min/30min	
Parameters	Stand-by DIM Level	10%/20%/30%/50%	
	Stand-by Period	0s/10s/1min/3min/5min/10min/30min/+∞	
	Detection Area	25%/50%/75%/100%	

#### 2.Parameter



	Daylight Sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable (Ambient light diffusion)		
Sensor Parameters	Detecting Radius	See detection pattern		
1 arameters	Mounting Height	15m Max		
	Detecting Angle	150°(wall mounting), 360°(ceiling mounting)		
	Operating Frequency	N/A		
Wireless	Transmitting power	N/A		
Module	Transmitting distance	N/A		
Wodule	Modulation mode	N/A		
	Number of coding	N/A		
Operating	Operating Temperature	-35℃+55℃		
Environment	Storage Temperature	Temperature:-40 <sup>°</sup> C+80 <sup>°</sup> C;Humidity:10%-95% (non-condensing)		
Certificate Standards	Safety standards	IEC60669-2-1, IEC60669-1 AS/NZS 60669.1, AS/NZS 60669.2.1 UL60730-1		
	EMC standards	EN55015, EN61000-3-2, EN61000-3-3, EN61547 AS/NZS CISPR 15, AS/NZS 4268 FCC Part 15C, Part 15B EN 60950-1, EN301489-1, EN 201489-3, EN300440		
	Environmental Requirem ent	Compliant to RoHS		
	Certificate	cULus, CE, SAA, FCC, RED		
	Wiring	SJTW,5*18AWG (USA); H05RR-F,5*18AWG (Europe,Austra a); exposed line length: 810-830mm		
	Wiring color	Sheath: BlackCore: Red,White,Black,Gray,Purple (US);blue, brown, red, purple,Gray (Europe, Australia)		
	IP Rating	IP65		
	Protection Class	Class II		
Others	Installation	Independent		
	Dimension	(ΦxH)72*59mm		
	Package	Instruction+ White box+ White box tags+ Clapboard Carton(K=A)		
	Net Weight	MC054V RC A: 225g, MC054V RC B:246g, MC054V RC C:225g , MC054V RC D:165g		

Note

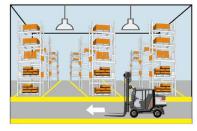
1. "N/A" means not available.

2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

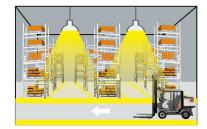


### 3. Function

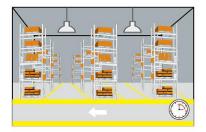
1) On/OFF Function (stand-by period be set to "0"s)



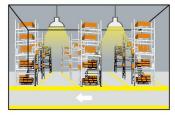
With sufficient ambient light, the light will not be switched on even if with motion signal.



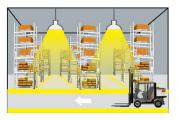
With insufficient ambient light, the sensor switches on the light when motion is detected.



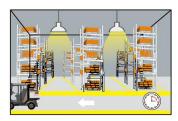
- 3 After elapse of hold time, the sensor switches off the light when no motion is detected.
- 2) 2-step dimming function (stand-by period be set to "+∞")



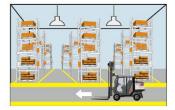
If there is no motion detected, the light will be remained at a low light level all the time.



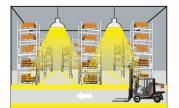
When motion is detected, the sensor will switch on the light to 100% brighteness



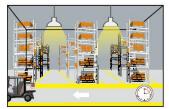
- After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.
- 3) 3-step dimming function (stand-by period be set to "10s/1min/3min/5min/10min/30min")



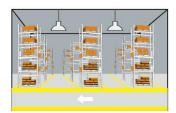
With sufficient ambient light, the light will not be switched on even if with motion signal.



With insufficient ambient light, the sensor switches on the light when motion is detected.



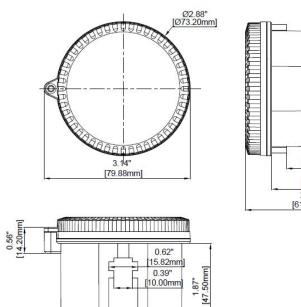
<sup>3</sup> After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.

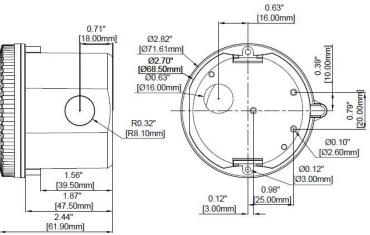


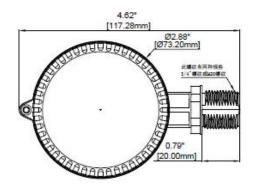
After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

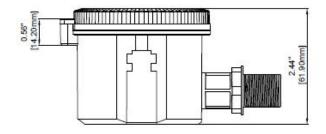


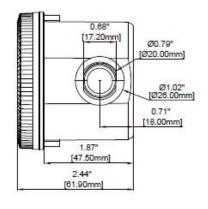
### 4.Dimension (mm)





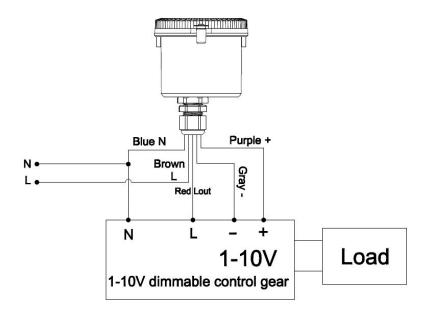






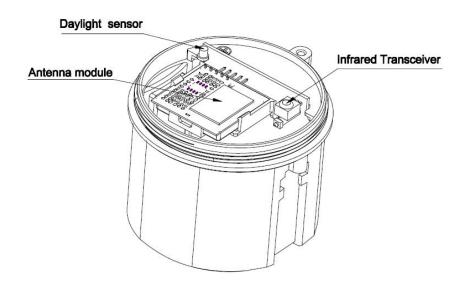


#### 5. Wiring



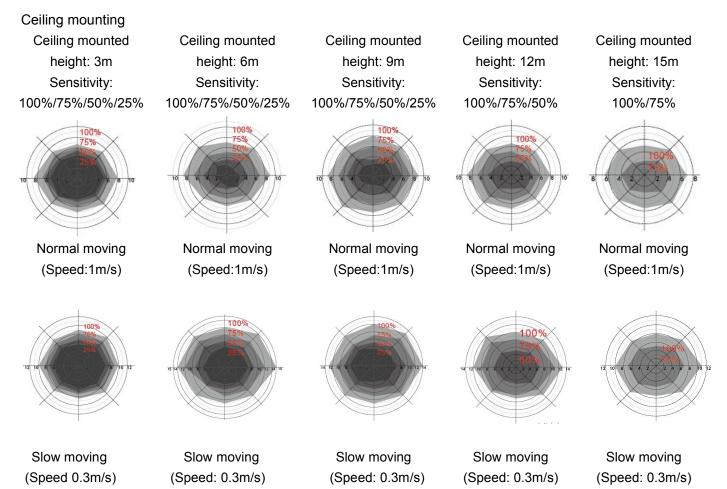
\*The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

#### 6. Function Diagram





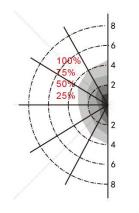
### 7. Radiation Pattern



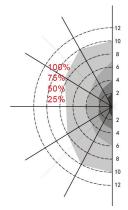
\*Only 100%/75%/50% detection sensitivity is workable when installed at 10m & 15m mounting height. 25% sensitivity is not able to detect motion signal.

Wall mounting

Horizon mounted height: 2m Sensitivity: 100%/75%/50%/25%



Normal moving (Speed: 1m/s)



Slow moving (Speed 0.3m/s)



### 8. Remote Control

Remote Control Setting	Button	Remarks
		Press the "ON/OFF" button, the light goes to constant on/off mode, sensor is disabled. Press "Reset" "Sensor motion" button to quit from this mode and the sensor starts to work.
	Reset	Press "Reset" button, all parameters are same as setting of factory settings.
5m 10m 15m 5m 10m 15m 5m 25% 50% 75% 100% 30% 50% 50% 55 30% 10m 3m 5m 10m 20m 30m 5m 10m 30m em 51 51 301 501 1001 1501 00m	Seracr melion	Press "Sensor motion" button, the light quits from the constant on/ off mode, and the sensor starts to work ( The latest setting stays in validity )
	DIM	Press"DIM Test" button, the 1-10 V dimming works to test whether the 1-10Vdc dimming ports are connected properly. After 2s, it returns to the latest setting automatically.
	Disable DH Disable DIM + DIM-	"Override DH", and "DH Mode" that the two functions are not applicable for MC054V RC2.
	→ Q1 Q2 Q3	Scene      Detection Options      Hold Area      Stand-by Time      Stand-by period      Daylight dim level      Sensitivity model        Q51      100%      5min      10min      10%      30ux      Hs        Q52      100%      10min      30min      10%      Disable      Hs        Q53      100%      20min      30min      10%      Disable      Hs        Note:      Detection area / Hold time /Stand-by period /Stand-by dim level / Daylight sensor can be adjusted by pressing the corresponding button. The latest setting will stay valid.
	TEST 28	Press the "TEST 25" botton can enter the test mode any time. At the mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 5s, Stand-by Dim Level is 10%, Stand-by Period is 0s, daylight sensor disable. This function only for testing. Quit the mode by pressing "RESET" or any other function buttons.
	HS LS	Press"HS" button to set the detection area to be high sensitive. Press"LS" button to set the detection area to be low sensitive. The adjustment bases on the "Detection Area" parameter you set.
DM- OH DM	→ (*	Daylight Sensor Set up daylight threshold: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/ Disable。
	→ Ø	Stand-by period Set up stand-by time: 0S/10S/1min/3min/5min/10min/30min/+∞
	$\rightarrow$ $\overline{\odot}$	Hold time Set up hold time: 5S/30S/1min/3min/5min/10min/20min/30min
		Stand-by dim level Set up stand-by dim level: 10%/20%/30%/50%
	<u>(((.</u>	Detection Area Set up detection area: 25%/50%/75%/100%
		Remote Distance Toggle button can set the remote distance of remote control and sensor.

#### 9. Initialization

1/ On/Off function /3-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the sensor is not able to detect movement.

2/ 2-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it dims the light to a low light level (set by stand-by dim level). During the initialization, the sensor is not able to detect movement.

#### 10. Factory Setting

Detection area: 100%, Hold Time: 5S, Stand-by Period: 0s, Stand-by dim level: 10%, Daylight Sensor: Disable



### 11. Override Function

Switch on and off power 3 times to cancel sensor function, switch on and off one time to recover sensor function

#### 12. Application Notice

1) The sensor should be installed by a professional electrician. Please turn off the power before installing, wiring, changing the setting of the DIP switch.

2) The sensor which installed in the plastic and glass lampshade will reduce the sensitivity. For every 3mm increase in thickness, the sensitivity will be reduced by 20%.

3) The dimming performance could be different from different 1-10v drivers.

4) The light sensitivity threshold is in a sunny environment, no shadow and ambient light diffuse

reflection..Ambient lux level could be different in different environment, weather, climate, time-of-day and season.

5) The parameters of the sensor may need to be reconfigured in different installation environments. Please refer to the following instructions or contact the manufacturer.

6) This sensor is for indoor use only. It will affect the waterproof effect for outdoor use. Wind, rain, and moving objects around will cause false triggering.

7) The distance between any inductive sensors should be greater than 3m.

8) Do not place the sensor close to high-density objects such as metal, glass,concrete walls, etc, false triggering could happen. When the sensor is installed in a metal lamp, metal reflective surface, or a narrow enclosed environment, the microwave will be reflected repeatedly and cause false triggering. Please reduce the sensitivity or contact the manufacturer for technical support.

9) Please ensure that there are no moving signals around the sensor, such as fan,DC motor, sewer pipe, air outlet, etc., the sensor may generate false trigger.

10) You are advised to test 5 samples before mass application of sensor in a new lighting project.

11) Due to continuous improvement, the contents of this instruction could be changed without prior notice.