Intelligent Lighting

New smart lighting control solution

Smart Lighting Provider - DSTITAC

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Light auto saving system

Light auto saving system

DSTITAC presents a new efficient lighting produtct and system - **iSMART Lighting** sensor lighting control system was popular with traditional lighting sources. Now, the LED lighting has become a new fashion together with energy saving in every lighting sites. It has limited to use only on/off function with motion detect sensor. We offers various functional saving with motion detect sensor conbination with sensor to dave great rato compare then any others system effeciently. This intelligent control technology optimizes energy efficiencty and reduces the building's operating costs.

Energy efficiency

The kyoto protocol / Building : the main source of energy saving

iSMART Lighting

PIR sensor lighting
Microwave sensor lighting
Sensors

Energy efficiency

The Koyoto protocol

Energy efficiencty is no longer just an option. The Kyoto protocao has stimulated governments from all over the world to approve legislation guaranteening a more intelligent and aware use of energy in buildings. In March 2007 the European Uniion committed to achieving reductions of **20% in Co_2** emissions before 2020. This plan of action, known as "**3x20** by 2020", also includes an increase of **20% in the level of Energy Efficiency** and **20% of energy produced from renewable energy sources**. To reach these objectives a number of real changes are required and governments are intensifying their efforts to pass new laws and set and regulate standards for greater energy efficiency

20% of energy from renewable souces

CO emissions reduced by **20%**

Energy efficiency increased by **20%**

Reference Standards

This new trend of stricter energy efficieny began with the Kyoto Protocol. Laws like the Energy Policy Act in the United States have established the standards for our future energy.

In Europe, European directive 2002/91/CE (EPBD) regarding energy yields in the building sphere and again, On 18/06/2010 the new European directive (2010/31/CE) regarding energy performance in the building industry was published.

This recognises the importance of active control systems, like automated, control and moniterig systems aimed at saving energy. Initiatives in the private and public sector:

- UNI EN 153232 standard
  This standard is used to assess the impact of building automation systems on active energy efficiency, by establishing the potential energy saving on heating and electricity depending on the type of building.

- The LEED R Green building Rating System is standard for energy certitication and sustainability for the design, construction and running of buildings, created from voluntary contributions. The LEED was originally compiled in the USA by the US Green Building Council, a no-profit association founded in 1993.
  The standard rapidly became accepted internationally and is now the most commonly used certification system in the world

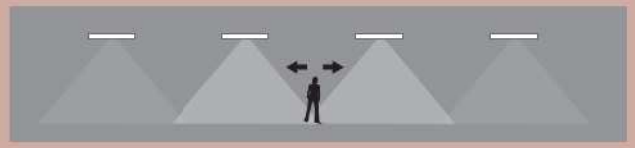
Intelligent Lighting

iSMART - PIR

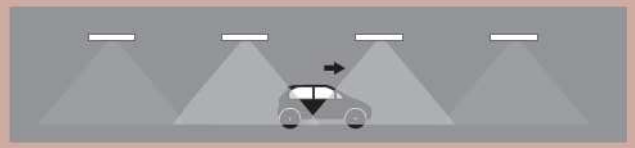
Save upto 90% energy & money

- Basic energy consumption chart

Type	Watt	Power consumption(W) for dim level at stand by mode			lm per dim level at stand by mode		
		10%	30%	50%	10%	30%	50%
600mm T8 LED TUBE Sensor W/Dim	10±1W	2,6±1W	3,5±1W	6,5±1W	10±15lm	290±15lm	750±15lm
1200mm T8 LED TUBE Sensor W/Dim	18±1W	3,5±1W	4,5±1W	9,2±1W	150±15lm	460±15lm	1180±15lm



keep low intensity (10, 20, 30%) until lamp integrated sensor detect
Immediately full bright (100%) once it detect movement



iSMART PIR - T8 LED TUBE

LED T8 LED sensor Tube

85-265 VAC | 50-60 HZ | Power Factor >0,9 | Operation TEMP -20~40 ℃ | IP40 | RoHS

Feature & Benefits

- 120 degree sensitive angle and 10M distance
- 30 seconds to 30 minutes interval can be set.
- OFF, 10%, 30% or 50% standby brightness can be set.
- T8 shape with G13 socket and other different socket type options available.
- Optimum light uniformity and high color homogeneity.
- Extremely robust with aluminum heat sink and polycarbonate cover.
- Power Factor: 0.9, Efficiency >88%.
- Overpower, short and open circuit protected.
- NO noise, NO flicker, NO UV and IR.
- Mercury-free and RoHS compliant.
- Comply with CE, FCC and UL standards.

LED T8 LED sensor Tube

2835 SMD LEDs / PIR sensor

Odering information

Part Number	Description	Unit
DLT6-80610-4072W-H0-N	T8 LED Tube, With PIR sensor, 0.6M, Milky Lens, G13, 72 SMD2835 LEDs, Warm White, 85-265VAC	PCS
DLT6-80610-4072N-H0-N	T8 LED Tube, With PIR sensor, 0.6M, MilkyLens, G13, 72 SMD2835 LEDs, Natural Wite, 85-265VAC	PCS
DLT6-80610-4072C-H0-N	T8 LED Tube, With PIR sensor, 0.6M, MilkyLens, G13, 72 SMD2835 LEDs, Cool Wite, 85-265VAC	PCS
DLT6-81210-4120W-H0-N	T8 LED Tube, With PIR sensor, 1.2M, MilkyLens, G13, 120 SMD2835 LEDs, Warm Wite, 85-265VAC	PCS
DLT6-81210-4120N-H0-N	T8 LED Tube, With PIR sensor, 1.2M, MilkyLens, G13, 120 SMD2835 LEDs, Natural Wite, 85-265VAC	PCS
DLT6-81210-4120C-H0-N	T8 LED Tube, With PIR sensor, 1.2M, MilkyLens, G13, 120 SMD2835 LEDs, Cool Wite, 85-265VAC	PCS
DLT6-81510-4152W-H0-N	T8 LED Tube, With PIR sensor, 1.5M, MilkyLens, G13, 156 SMD2835 LEDs, Warm Wite, 85-265VAC	PCS
DLT6-81510-4152N-H0-N	T8 LED Tube, With PIR sensor, 1.5M, MilkyLens, G13, 156 SMD2835 LEDs, Natural Wite, 85-265VAC	PCS
DLT6-81510-4152C-H0-N	T8 LED Tube, With PIR sensor, 1.5M, MilkyLens, G13, 156 SMD2835 LEDs, Cool Wite, 85-265VAC	PCS

Technical Specification

Physical Specifications

Length	600mm	1200mm	1500mm
Weight	212g	360g	441g
Housing	Aluminum Base+PC Cover		
Lens	Milky		
Tube Diameter	T8		
Base Type	G13/R17d		
Work Environment	Indoor use (applicable for dry environments)		

Electrical Specifications

	600mm	1200mm	1500mm
LED Quantity	72LEDs	120LEDs	156LEDs
Power Consumption	10±1W	15±1W, 18±1W	18±1W,21 1W
Output Current	170mA	230mA	340mA
Input Voltage	85- 265VAC		
Power Factor	>0.95		
Light Source	2835SMD LEDs, more than 11LM each		
Operation Temperature	-20~40℃		

Optical Specifications

	600mm	1200mm		1500mm	
Power Consumption	10W	15W	18W	18W	22W
Lumens	>850lm	>1530lm	>1700lm	>1700lm	>2000lm
Luminous Efficacy	> 85 lm/w	> 85 lm/w	> 89 lm/w	> 89 lm/w	> 91 lm/w
Color Temperature	Warm White:2900K-3200K				
	Natural White:5000K-5300K				
	Cool White:6500K-6800K				
CRI	>75				
Beam Angle	120 Degree				

Technical / design details could be changed without noticed

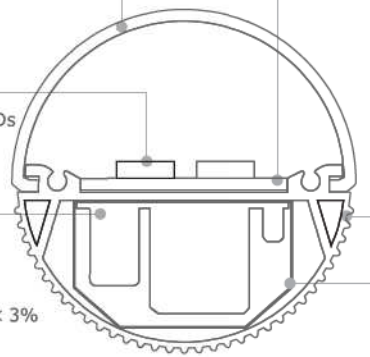
* Results of 6500K with milky lens

Advantage

Optic Lens
- Clear, milky and stripped options
- TEIJIN Polycarbonate material
- Light transmittance > 90%
- 94-V0 approved

SMD LEDs
- High brightness 2835 SMD LEDs
- High color homogeneity

LED Driver
- Isolated driver
- Efficiency > 88%
- Power Factor >0.9
- Constant Current fluctuation < 3%



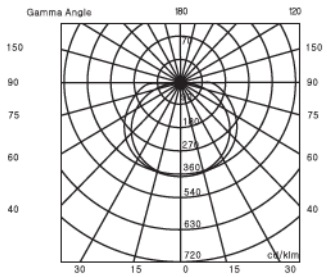
MC-PCB& Thermal conductive silicon
- For optimal thermal transmission

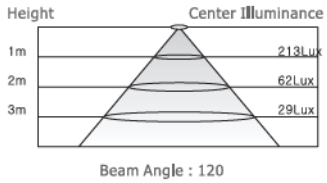
Aluminium Heatsink
- Patent design for optimal thermal transmission
- High-grade exterior

Insulated Casing
- Safety protection
- Pass 3750 high voltage testing

Photometric Data

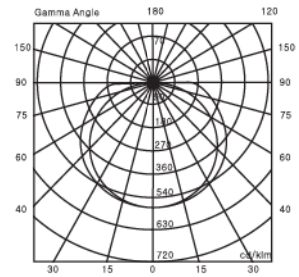
0.6m 6500K clear lens

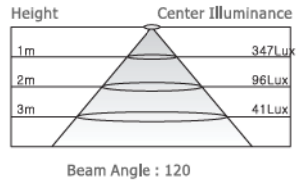




Beam Angle : 120

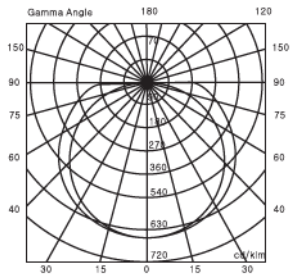
1.2m 6500K clear lens

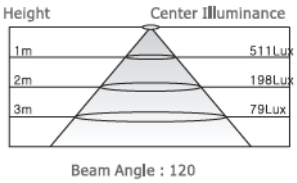




Beam Angle : 120

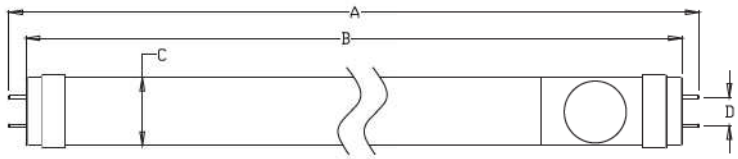
1.5m 6500K clear lens





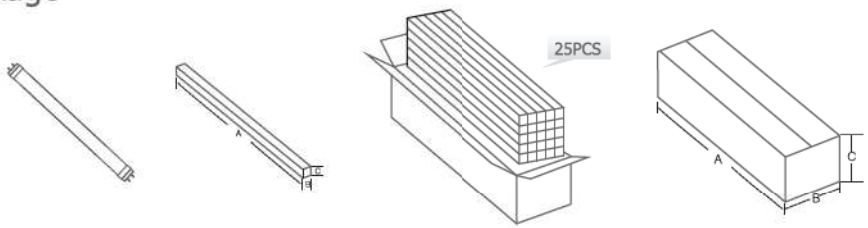
Beam Angle : 120

Dimension & packing details



Item	A:MAX (mm)	B:MAX (mm)	C:MAX (mm)	D:MAX (mm)
2ft/600mm	604	589	26	13
4ft/1200mm	1215	1199	26	13
5ft/1500mm	1514	1499	26	13

Package



Tube	Box		Corton	
Item	ABC:MAX (mm)	Gross Weight (g)	ABC:MAX (mm)	Gross Weight (g)
2ft/600mm	612*32*32	255.8	640*180*180	6735
4ft/1200mm	1223*32*32	440.4	1250*180*180	11665
5ft/1500mm	1523*32*32	543.4	1550*180*180	14440

Ordering no. logic

DLT1 ------- (E) ---- 8 ------ 06 ---- 0 ------- 0 ------ 1 ------- 144 ---- W ----- H1

Tube Type	External PSU	Diameter	Length	Cover Type	Base Type	LED Type	LED QTY	Color Temp.	Input Voltage
DLT1 Normal Type		5:T5	0.6m	0: Clear	0: G13	1: 3528		Warm White	L0: 11-18V DC
DLT2 Electronic Ballast Compatible		8:T8	1.2m	1: Milky	1: Rotatable	2: 3022		Natural White	L1: 12VDC
DLT3 Inductive Ballast Compatible		1:T10	1.5m		2: FA8	3: 3014		Cool white	L2: 24VDC
DLT4 Single end power type					3: R17D	4: 2835			L5: 5VDC
DLT5T: Triac Dimmable									H0: 100-240VAC/85-265VAC
DLT5S: Switch Dimmable									H1: 100-130VAC
DLT6: PIR sensor									H2: 220-240VAC

USER MANUAL

iSMART DSTITAC T8 Sensor tube

CE IP20

READ ALL CAREFULLY BEFORE INSTALLING, KEEP THE USER MANAUAL FOR FUTURE USE

FEATURES

- 120 degree sensitive angle and 10M distance.
- 30 seconds to 3 minutes interval can be set.
- OFF, 10%, 30% or 50% standby brightness can be set.

GENERAL

The DLT6 T8 LED tubes are designed with PIR sensor, for ultimate energy saving and should be installed and maintained according the following recommendations. They are designed to operate in ambient temperature ranging from -20°C to 40°C.

UNPACKING

The tubes have been properly packed so that no parts should have been damaged during transit. Inspect to confirm.
The carton should contain a luminaire and a user manual.
NOTE: Be careful not to impact or scratch the lens.

HANDLING

Damage may occur if luminaire is improperly handled outside of pack. Do not impact luminaire after removal from packaging.

SAFETY STANDARDS

EN60598-1: 2008 EN61547: 2009 EN55015/A2: 2009

⚠WARNING

To avoid the risk of electric shock, fire or injury, please note the following before installation or maintenance:

- Make sure the main power source is turned OFF.
- Do NOT take the luminaire apart or reassemble it.
- Do NOT use the luminaire in raining or wet environment.
- Check to confirm the rated working voltage and specification.
- Make sure the luminaire fixture is ground protected.
- Do NOT look directly at LED light source while energized.
- Turn power ON before making sure the luminaire is properly installed.

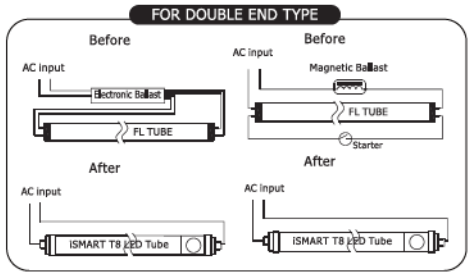
INSTALLATION STEPS

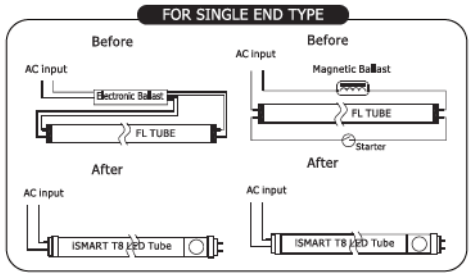
Retrofit Luminaire with Electronic Ballast

1, Turn OFF main power source.
2, Remove existing fluorescent tube.
3, Modify the circuits according to the following drawing.
4, Drop the DLT6 T8 LED Tube into the luminaire fixture.
5, Turn ON the main power to light it.

Retrofit Luminaire with Magnetic Ballast

1, Turn OFF main power source.
2, Remove existing fluorescent tube.
3, Modify the circuits according to the following drawing.
4, Drop the DLT6 T8 LED Tube into the luminaire fixture.
5, Turn ON the main power to light it.





For more information, please check the LT6 data sheet.

lighting@dstitac.com www.dstitac.com

The document is subject to change without notice.
Please visit www.dstitac.com for the latest version.

Ver. 13-1

Intelligent Lighting

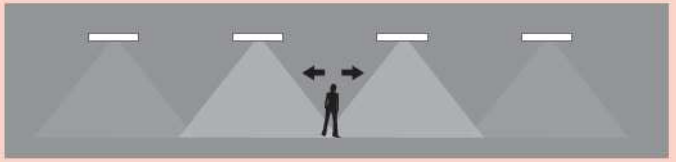
iSMART - Microwave

iSMART - Microwave

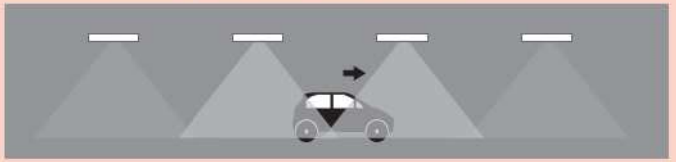
Proposed to more public and place
needs more accurate operations

Save upto 90% energy & money

Item	Model	Full power / lm		Power consumption (Watt) at			lm output per dim level at		
		Watt	Lm	20%	30%	50%	20%	30%	50%
iSMART - Ceiling lamp	MRT-10-01 (3000K)	10W	720	3.2w±5%	3.8w±5%	5.0w±5%	144lm±5%	216lm±5%	360lm±5%
	MRT-10-02 (3000K)	13W	900	3.4w±5%	4.2w±5%	8.0w±5%	180lm±5%	270lm±5%	450lm±5%
	MRT-10-03 (3000K)	16W	1040	3.8w±5%	4.8w±5%	6.5w±5%	208lm±5%	312lm±5%	520lm±5%
iSMART-Bulb	MRT-07-01(3000K)	4W	250	2.5w±5%	3.0w±5%	3.2w±5%	50lm±5%	75lm±5%	125lm±5%
	MRT-07-02(3000K)	7W	460	3.0w±5%	3.8w±5%	4.8w±5%	92lm±5%	138lm±5%	230lm±5%
iSMART-T8 tube	MRT-08-01 (4300K)	10W	700	2.8w±5%	3.5w±5%	5.0w±5%	140lm±5%	210lm±5%	350lm±5%
	MRT-08-02 (4300K)	18W	1400	4.0w±5%	5.0w±5%	8.5w±5%	280lm±5%	420lm±5%	700lm±5%
	MRT-08-03 (4300K)	24W	1900	5.5w±5%	6.8w±5%	10.5w±5%	380lm±5%	570lm±5%	950lm±5%



keep low intensity (10, 20, 30%) until lamp integrated sensor detect
Immediately full bright (100%) once it detect movement



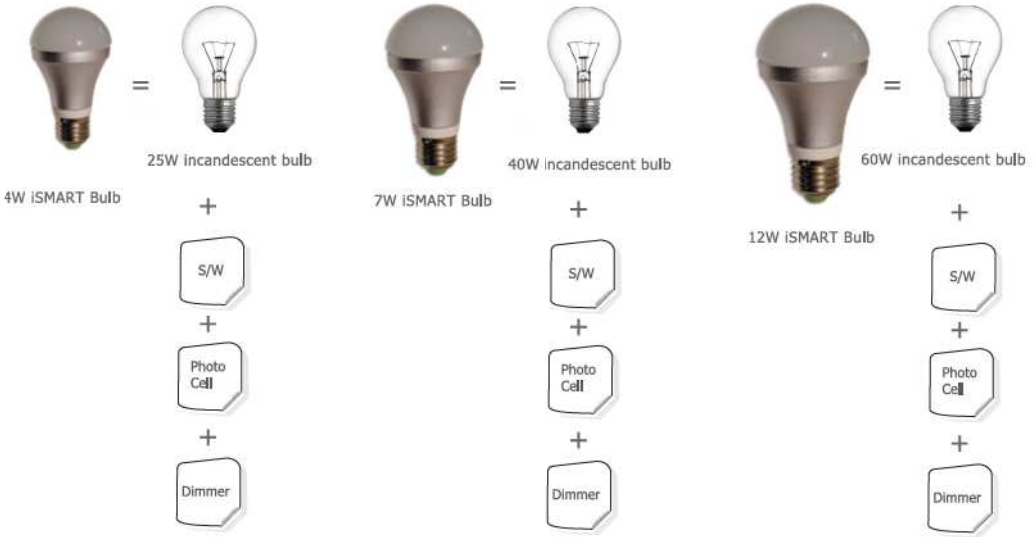
iSMART Micro - LED Bulb series

LED sensor Bulb

100-240 VAC | 50/60Hz | R&TTE | Operation TEMP -20~40℃ | P40 | CE | RoHS

Feature & Benefits

- 360 degree sensitive angle and 2.5~3M Height, 5M angle distance
- 30 seconds to 30 minutes interval can be set.
- OFF, 20%, 30% or 50% standby brightness can be set.
- Bulb shape with E27 socket
- Optimum light uniformity and high color homogeneity.
- Extremely robust with aluminum heat sink and polycarbonate cover.
- CRI > 80
- Photo cell function: Auto identify the environment illumunance, working after it.
- Corridor function: vacant in the detection area 1) 1-10s, 100% intensity, 2)10-40s 20% intensity, 3)after 40, off
- Overpower, short and open circuit protected.
- NO noise, NO flicker, NO UV and IR.
- Mercury-free and RoHS compliant.
- Comply with CE, FCC , RoHs, R&TTE



Technical specification

Model	MRT-07-01	MRT-07-02	MRT-07-03
Rated input	100-240V 50/60Hz		
input power	4W	7W	12W (Ready in 2014)
PF	>0.5	>0.9	
Total lm	250lm	480lm	
Optical CCT	3000K/4000K/6000K		
Base	E27		
Dimension	ø60mm * 110mm		N/A
CRI	>80		
LED type	SMD		
Working temp.	-10°C ~ 40°C		
Life time	30,000 hours		

INDUCTION PARAMETERS

- Ambinet illuminance threshold :10lux
- Time interval :10s ON-Dimming 30s Dimming-off
- Diming level : 20% lm
- Detection range: 2.5 ~ 5m
- Sensor angle: 360 degrees
- HF system: 5.8Ghz ISM wave band
- Transmission power: <0.5mW (1% of cellphone standard power)
- Motion detection range: 0.5 ~ 3m/s
- Note: Motion only can detect movement of object bigger than 0.3m Detection range is related to height and weight of object

COMPARED PARAMETERS

item / product	Incandescent bulb	LED Bulb (General)	iSMART- LED BULB
Power (W)	25W	4W	4W
Lumious efficiency (lm/w)	10lm/W	71.5lm/W	71.5lm/W
Luminous flux (lm)	250lm	250lm	250lm
Life-span (H)	2000h	300000h	30000h
Yearly power consumption (W)	91250W	14600	8760
Yearly cost (USD)	$91.25	$14.60	$8.76
Carbon emission (KG) (IPCC Standard: 0.637kg/kwh)	58.13KG	9.3KG	5.5KG

Important Notice

1. Installation

- To avoid interference each other, space between each bulbs must larger than 1M
- Microwave from bulb can't not go through metal, brick wall, If thickness arger than 20cm. it can go through thin wall but will be attenuated
- Installation behind a glass / plastic will result in reduction of detection area. Approx. reduce by 20% with every 3mm thickness
- To get more reliable sensitivity, the bulb should be not installed in a glass cover
- It is not recommended to install bulb in a small area (smaller than 10m)

2. Working mode (Sensor Initialization Mode)

- After connecting to mains and power on, bulb will light up 100% lm for 10sec. and then s/w off itself (this is called initialization mode)
- After initialization mode, if no motion in detection range, bulb will keep off. if any motion in detection range, it will work inteligently as description in normal mode.

* Working mode can be changed by customer requirement

2. Working mode (Sensor Initialization Mode)

- After connecting to mains and power on, bulb will light up 100% lm for 10sec. and then s/w off itself (this is called initialization mode)
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* Working mode can be changed by customer requirement

iSMART Micro - LED T8 Tube

LED T8 LED sensor Tube

100-240 VAC | 50/60Hz | R&TTE | Operation TEMP -20~40℃ | IP40 | CE | RoHS

Feature & Benefits

- 120 degree sensitive angle and 2.5~3M Height, 15M angle distance
- 30 seconds to 30 minutes interval can be set.
- OFF, 20%, 30% or 50% standby brightness can be set.
- Bulb shape with G13 socket
- Optimum light uniformity and high color homogeneity.
- Extremely robust with aluminum heat sink and polycarbonate cover.
- CRI > 80
- Photo cell function: Auto identify the environment illumunance, working after it.
- Corridor function: vacant in the detection area 1) 1-10s, 100% intensity, 2)10-40s 20% intensity, 3)after 40, off
- Overpower, short and open circuit protected.
- NO noise, NO flicker, NO UV and IR.
- Mercury-free and RoHS compliant.
- Comply with CE, FCC , RoHs, R&TTE

Technical specification

Model Type	Input Voltage	Power	Beam Angle	CCT	Size	Luminous Flux	CRI
MRT-08-01	100-240V 50/60Hz	8W	120 +/-10°	2700K 4300K 6400K	ø26*600mm	640lm	>80
MRT-08-02		12W			ø26*900mm	810lm	
MRT-08-03		15W			ø26*1200mm	1200lm	
MRT-08-04		20W			ø26*1500mm	1500lm	

Important Notice

1. Installation

- To avoid interference each other, space between each bulbs must larger than 1M
- Microwave from bulb can't not go through metal, brick wall, If thickness arger than 20cm. it can go through thin wall but will be attenuated
- Installation behind a glass / plastic will result in reduction of detection area. Approx. reduce by 20% with every 3mm thickness
- To get more reliable sensitivity, the bulb should be not installed in a glass cover
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*** Working mode can be changed by customer requirement**

2. Working mode (Sensor Initialization Mode)

- After connecting to mains and power on, bulb will light up 100% lm for 10sec. and then s/w off itself (this is called initialization mode)
- After initialization mode, if no motion in detection range, bulb will keep off. if any motion in detection range, it will work inteligently as description in normal mode.

*** Working mode (ON/off or Dim) can be changed by customer requirement**

iSMART Micro - LED down light

LED sensor down light

100-240 VAC | 50/60Hz | R&TTE | Operation TEMP -20~40℃ | IP40 | CE | RoHS

Feature & Benefits

- 120 degree sensitive angle and 2.5~3M Height, 10M angle distance
- 30 seconds to 30 minutes interval can be set.
- OFF, 20%, 30% or 50% standby brightness can be set.
- Bulb shape with G13 socket
- Optimum light uniformity and high color homogeneity.
- Extremely robust with aluminum heat sink and polycarbonate cover.
- CRI > 80
- Photo cell function: Auto identify the environment illumunance, working after it.
- Corridor function: vacant in the detection area 1) 1-10s, 100% intensity, 2)10-40s 20% intensity, 3)after 40, off
- Overpower, short and open circuit protected.
- NO noise, NO flicker, NO UV and IR.
- Mercury-free and RoHS compliant.
- Comply with CE, FCC , RoHs, R&TTE

Technical specification

Model Type	Input Voltage	Power	PF	Beam Angle	CCT	Size	Luminous Flux	CRI
MRT-09-01	100-240V 50/60Hz	9W	>0.9	120 +/-10°	2700K 4300K 6400K	4 inch	480lm	>80
MRT-09-02		15W				6 inch	1280lm	
MRT-09-03		20W				8 inch	1700lm	

COMPARED PARAMETERS

item product	Incandescent bulb	LED down light (General)	iSMART- LED BULB
Power (W)	40W	7W	7W
Lumious efficiency (lm/w)	12lm/W	68.6lm/W	68.6lm/W
Luminous flux (lm)	480lm	480lm	480lm
Life-span (H)	2000h	300000h	30000h
Yearly power consumption (W)	146000	27375	16425
Yearly cost (USD)	$146.00	$27.38	$16.42
Carbon emission (KG) (IPCC Standard: 0.637kg/kwh)	93KG	17.35KG	10.41KG

*** Working mode (ON/off or Dim) can be changed by customer requirement**

iSMART Micro - LED Ceiling light

IP40 CE RoHS

- 120 degree sensitive angle and 2.5~3M Height, 10M angle distance
- 30 seconds to 30 minutes interval can be set.
- OFF, 20%, 30% or 50% standby brightness can be set.

Optimum light uniformity and high color homogeneity.

Extremely robust with aluminum heat sink and

Photo cell function: Auto identify the environment illumunance, working after it.

Corridor function: vacant in the detection area
1) 1-10s, 100% intensity, 2)10-40s 20% intensity, 3)after 40, off

Overpower, short and open circuit protected.

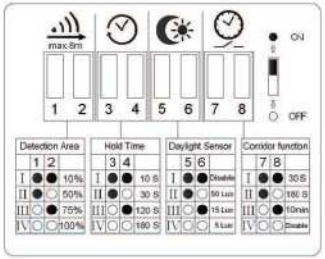
Model Type	Input Voltage	Power	PF	Beam Angle	CCT	Size	Luminous Flux	CRI
MRT-10-01	100-240V 50/60Hz	10W	>0.9	120 +/-10°	2700K 4300K 6400K	ø185*65Hmm	720lm	>80
MRT-10-02		13W				ø238*65Hmm	800lm	
MRT-10-03		16W				ø298*65Hmm	17001040	

item product	Incandescent bulb	LED down light (General)	iSMART- LED BULB
Power (W)	60W	12W	12W
Lumious efficiency (lm/w)	12lm/W	62.5lm/W	68.662.5
Luminous flux (lm)	750lm	750lm	750lm
Life-span (H)	2000h	300000h	30000h
Yearly power consumption (W)	219000	43800	26280
Yearly cost (USD)	$219.00	$43.80	$26.28
Carbon emission (KG) (IPCC Standard: 0.637kg/kwh)	139.5KG	27.76KG	16.65KG

*** Working mode (ON/off or Dim) can be changed by customer requirement**

INDUCTION PARAMETERS

- Ambinet illuminance threshold :10lux
- Time interval :10s ON-Dimming 30s Dimming-off
- Diming level : 20% lm
- Detection range: 2.5 ~ 10m
- Sensor angle: 120 degrees
- HF system: 5.8Ghz ISM wave band
- Transmission power: <0.5mW (1% of cellphone standard power)
- Motion detection range: 0.5 ~ 3m/s
- Note: Motion only can detect movement of object bigger than 0.3m Detection range is related to height and weight of object



User frendly function for ceiling light

The ceiling lamp can be adjustabled by user as following : you only put the hold time on 30s or 120s as you like ,and the corridor function on disable ,then it will keep 20% on all the time .

Important Notice

1. Installation

- To avoid interference each other, space between each bulbs must larger than 1M
- Microwave from bulb can't not go through metal, brick wall, If thickness arger than 20cm. it can go through thin wall but will be attenuated
- Installation behind a glass / plastic will result in reduction of detection area. Approx. reduce by 20% with every 3mm thickness
- To get more reliable sensitivity, the bulb should be not installed in a glass cover
- It is not recommended to install bulb in a small area (smaller than 10m)

2. Working mode (Sensor Initialization Mode)

- After connecting to mains and power on, bulb will light up 100% lm for 10sec. and then s/w off itself (this is called initialization mode)
- After initialization mode, if no motion in detection range, bulb will keep off. if any motion in detection range, it will work inteligently as description in normal mode.

*** Working mode can be changed by customer requirement**

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