



Theorylight

Tri-proof Light (TP-VE)

Up to 160lm/W | 20W 36W 44W



ZigBee Mesh
Network Control



Motion Sensor



Zoning & Grouping



Theorylight
Remote Control



Daylight Sensor



On/Off Control

CE

RoHS

APPLICATIONS

- Parking Area
- Stairway
- Manufacture
- Warehouse
- Exhibition Hall

FEATURES

- Daylight and Motion sensors embedded
- ZigBee mesh network smart controls
- Easy Grouping without Gateway via Theorylight Remote Control.
- Automatic ON/OFF or Dimming Functions with smart sensing (Daylight, Motion) for maximum energy saving
- Color Temperature options with 4000K, 5000K , 5700K or 6500K , default available in 5000K
- Power Field available with power between 44W, 36W, 20W
- Efficiency up to 160 lm/W
- 50% less power consumption than traditional light sources.
- Lowest maintain cost



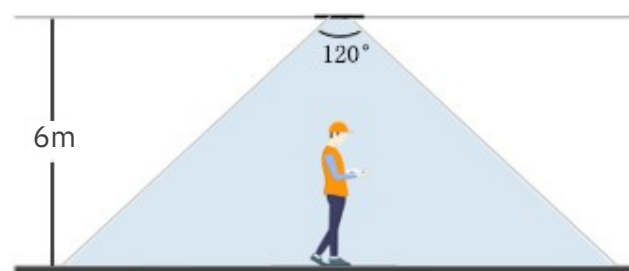
SMART MODULES

-  ZigBeeModule
-  Microwave Motion Sensor Module
-  Infrared Daylight Sensor Module

Sensor Parameters

Sensing Angle	120°
Sensing Distance	6 m
Light Sensing Range	0~2000 Lux (Infrared Daylight)
Remote Control Distance	10 m

Sensing Angle



PRODUCT DATA

General Information

LED Type	Lumileds
Light efficiency	130lm~160lm/W
CCT	4000K / 5000K (Default Available) / 5700K/ 6500K
CRI	80
LED Lifespan	> 50000h
Power Supply	BOKE
Type of Driver	Non-isolated
Driver efficiency	91% (Typical)
Warranty	3 Years Warranty
Certificate	CE, RoHS

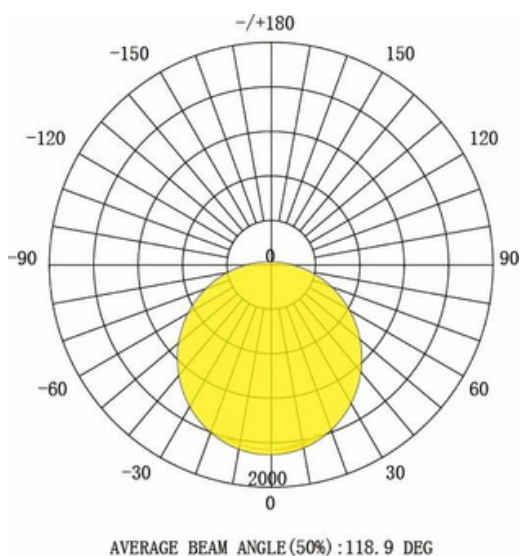
Application Conditions

Operating Temperature	-20°C to +50°C
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Approval and Application

Ingress protection code IP	IP65
Surge protection	2KV
Mech. impact protection code	IK08

Light Distribution Curve



Operating and Electrical

Input voltage	200~240 Vac
Input Frequency	50/60Hz
Inrush current	18A peak, 290us duration
Power Factor	> 0.95
THD	< 10 %
Standby Power	< 1W

Mechanical and Housing

Structure Material	PC PC PC
Finish Material	White Ceiling Mount
Lens Material	
Fixture Color	
Mounting Option	

Controls and Dimming

Dimmable	Dimmable	ZigBee	/
Intelligent Control	Dimming/Infrared	Daylight	/Microwave Motion Sensor

Draw ing



Type	Length (mm)	Width (mm)	Height (mm)
0.6m (20W)	600	65	55
1.2m (36W)	1200	65	55
1.5m (44W)	1500	65	55

PRODUCT PARAMETER

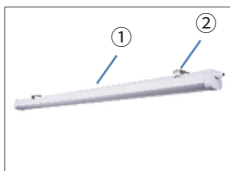
Model Number	Power Consumption (±10%)	Ra	Input voltage	Light Efficiency	Size (L * W * H)	Beam Angle	Correlated Color Temperature	LED type	Driver Type
TL12-TP-VE-L060-XXX①-20W-XXXX ② -A120-XX③ -XX④-MID-OTA-3.0	20W	80	200~240Vac	130~160lm/w	600*65*55mm	120deg	4000K 5000K 5700K 6500K	Lumileds	Microwave motion sensor+Infrared Daylight sensor
TL12-TP-VE-L120-XXX①-36W-XXXX ② -A120-XX③ -XX④-MID-OTA-3.0	36W	80	200~240Vac	140~160lm/w	1200*65*55mm	120deg	4000K 5000K 5700K 6500K	Lumileds	Microwave motion sensor+Infrared Daylight sensor
TL12-TP-VE-L150-XXX①-44W-XXXX ② -A120-XX③ -XX④-MID-OTA-3.0	44W	80	200~240Vac	140~160lm/w	1500*65*55mm	120deg	4000K 5000K 5700K 6500K	Lumileds	Microwave motion sensor+Infrared Daylight sensor

PACKAGE

Item.	Luminaire Net Weight	Packing Info	Dimension (inner box) (mm)	Dimension (outercarton) (mm)	GW (Outer carton)	20ft GP	40ft GP	40HQ
TL12-TP-VE- L060-XXX①-20W- XXXX②-A120-XX③-XX④MID-OTA-3.0	/	/	/	/	/	/	/	/
TL12-TP-VE- L150-XXX①-36W- XXXX②-A120-XX③-XX④-MID-OTA-3.0	0.78kg	12pcs/ctn	/	1315x265x320	12.5	2744	5339	6686
TL12-TP-VE- L150-XXX①-44W- XXXX②-A120-XX③-XX④-MID-OTA-3.0	1.11kg	12pcs/ctn	/	1615x265x320	15.2	2238	4353	5452

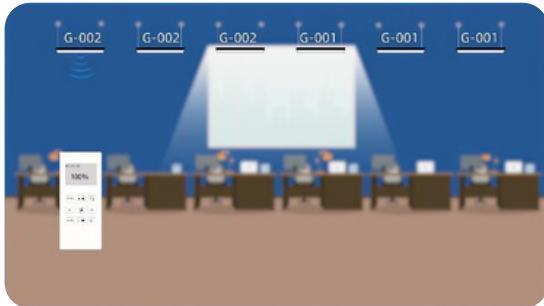
Remark :
 -XXX①designates different Correlated Color Temperature, 40K = 4000K, 50K= 5000K, 65K = 6500K.
 -XXXX②designates different Light Efficiency E130=130Lm/W,E160=160Lm/W.
 -XX③designates different Power Resource Terminals, DT= Dual Power Terminals, MT=Mono Terminal.
 -XX④designates different market certification , EU = EUROPE UNION, US = USA, CN = CHINA.
 -For the US version, the input voltage is 100~277Vac.

STANDARD KIT

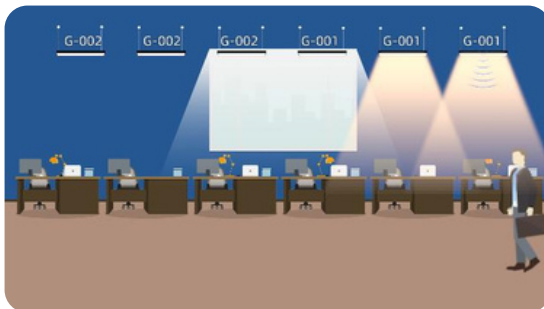


Serial Number	Description	Quantity
①	LED Tri-pool Light	1
②	Stainless steel Buckle	1

TYPICAL WORKING SCENARIOS



The “Theorylight” smart lamps are embedded with motion sensor and daylight sensor, using a “Theorylight” remote control, users can set grouping and parameters very fast and convenient. By adopting the standard ZigBee technology, “Theorylight” has the inborn advantages like long transmission distance, multiple channels and mesh network.



Users can set the sensor parameters of one group or individual button, and change lamp brightness. In one group, lamp with one the motion sensors work the together to control these grouped lamps, and the daylight sensors control individual lampson/off accordingto the ambient brightness.

The Theorylight serial include panel, linear light, tri-proof light, highbay, LED tube. This kind of smart lamps can be used for industrial and commercial area, example offices,warehouses,factories,parking and others.