iEngineering
idea + intelligence + integration

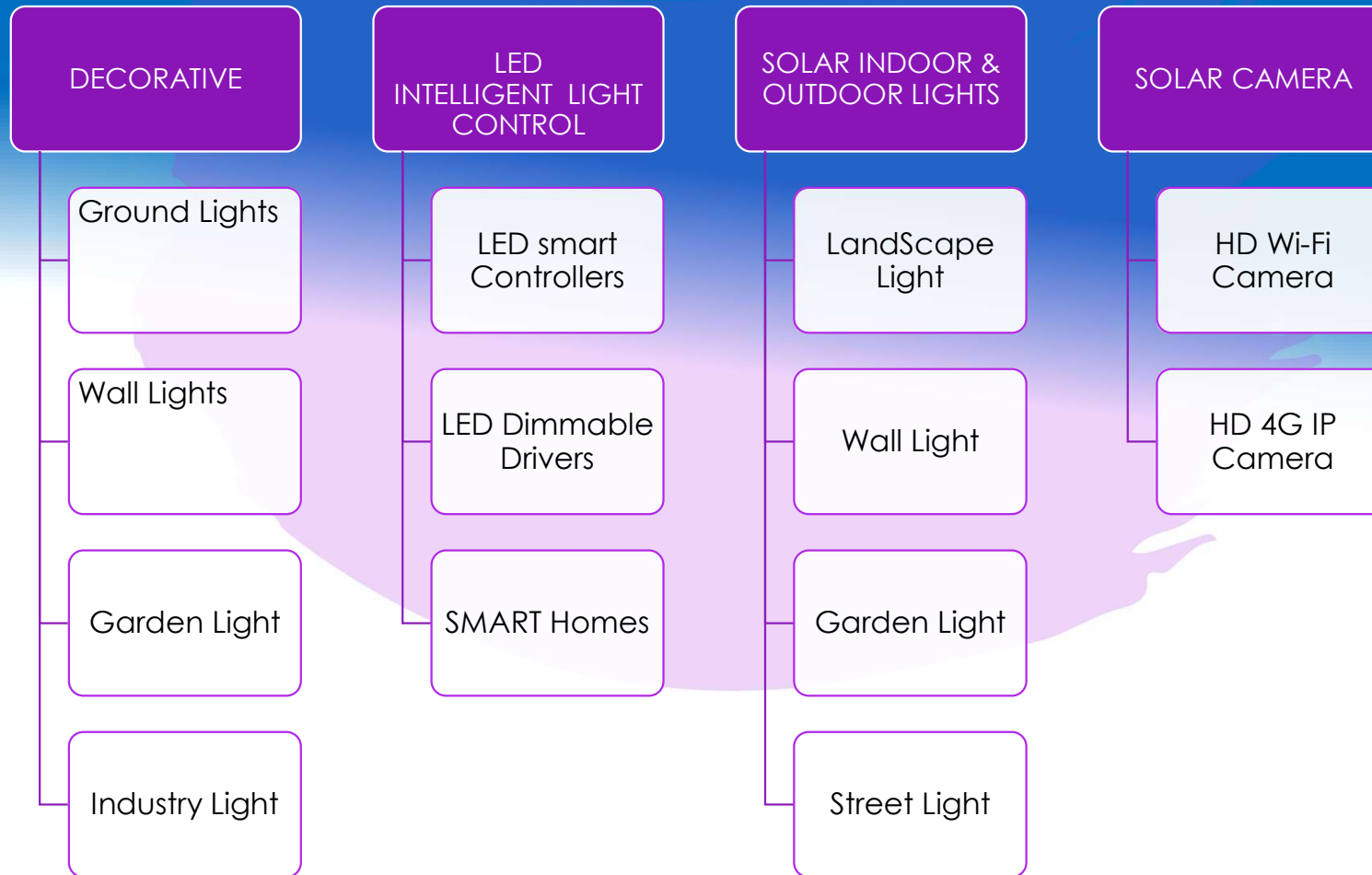# Intelligent Lighting and Cameras Controls

Decorative Lights

LED Intelligent Light Control

Solar Indoor, Outdoor Lights

Solar HD Wi Fi /4G Camera

iLighting
EXPAND YOUR BRIGHTNESS

Intelligent Lighting and Camera Controls

iEngineering
idea + intelligence + integration

DECORATIVE	LED INTELLIGENT LIGHT CONTROL	SOLAR INDOOR & OUTDOOR LIGHTS	SOLAR CAMERA
Ground Lights	LED smart Controllers	LandScape Light	HD Wi-Fi Camera
Wall Lights	LED Dimmable Drivers	Wall Light	HD 4G IP Camera
Garden Light	SMART Homes	Garden Light	
Industry Light		Street Light	

iLighting
EXPAND YOUR BRIGHTNESS

DECORATIVE GROUND LIGHT

LED Inground Light & LED Underground Light

- SUS316# front cover + 12# die-casting housing + tempered glass
- 8°/15°/25°/30°/45°/60°/90°or asymmetrical lens optional
- 1-36W power range
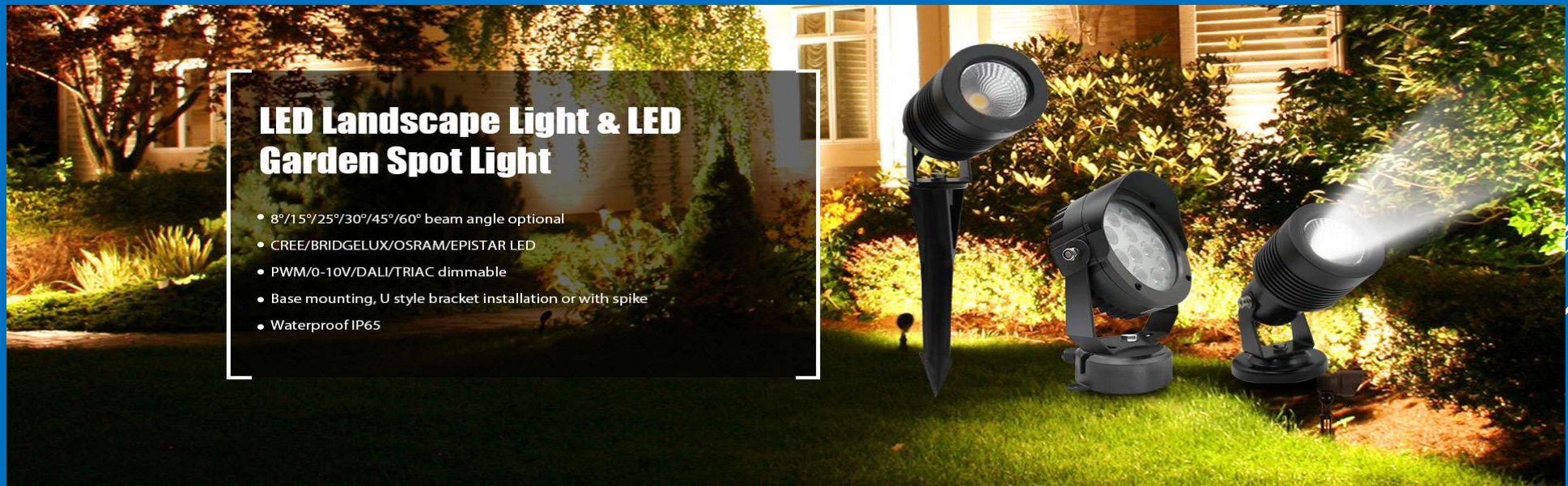- DC12/24V, AC100-240V input voltage optional
- Waterproof IP67

DECORATIVE WALL LIGHT

Recessed LED Wall Light & Stair Light

✔ 12# Die-casting aluminum housing + tempered glass

✔ SMD, COB or high power LED

✔ DC12/24V, AC100-240V input voltage optional

✔ 1-8W power range

✔ Waterproof IP65

DECORATIVE GARDEN LIGHT

LED Landscape Light & LED Garden Spot Light

- 8°/15°/25°/30°/45°/60° beam angle optional
- CREE/BRIDGELUX/OSRAM/EPISTAR LED
- PWM/0-10V/DALI/TRIAC dimmable
- Base mounting, U style bracket installation or with spike
- Waterproof IP65

LED High Bay Light & LED Street Light &
LED Flood Light & LED Area Light

- 50W-1000W LED industry lights
- One-stop integrated lighting solution
- Experienced R&D, production and sales team
- High quality CREE/PHILIPS LED
- 5 years warranty

INDUSTRY LIGHT

LED Smart Controller

DECODER
1-32 CHANNEL DMX512
LT-905/995/912/924/932-OLED

XLR3 XLR5 RJ45 RDM
Photoelectric Isolation Display Short Circuit Protection Overload Protection

100%
Output brightness
1.0 6.5
0.8 3.5
0.9 2.5
1.5
<1
>1
gamma
0
DMX value 255
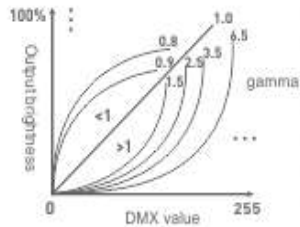
• App remote for changing address
• OLED Display screen
• 8 bit/16 bit
• 4 DMX interfaces
• Photoelectric isolation technology
• Short Circuit / Overload protection
• Dimming Curve: 0.1~9.9

WiFi-RDM
RDM
DMX
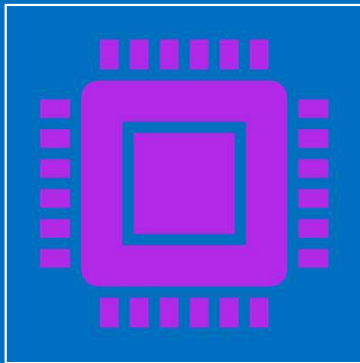
DMX512 Master controller is the output signal of international standard DMX512/1990. It not only can control all the LED lights that receiving the standard DMX signal in the market, but also can work with our DMX decoder to control the general LED lights without DMX512.
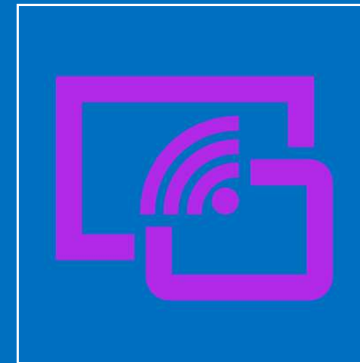
DMX Decoder adopted the advanced micro-electronic control technology to convert universal DMX512/1990 digital signal to CC/CV PWM signal to drive LED, which controlled by DMX512 console, realize 0-100% brightness or various changing effect. And can control single color, dupi-color, RGB, RGBY, RGBW, RGBA LED light

8 universe Artnet-DMX Controller, support SD card
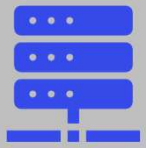
Artnet-DMX Control products. Based on the **Artnet protocol, it is able to quick concert Artnet network data packet into DMX512 data.**

There are **8 universes** available, and it provides RJ45 interface. **SD card** is supported in order to update firmware and data saving. Commonly compatible with all the Artnet software in the market, like **MADRIX**.
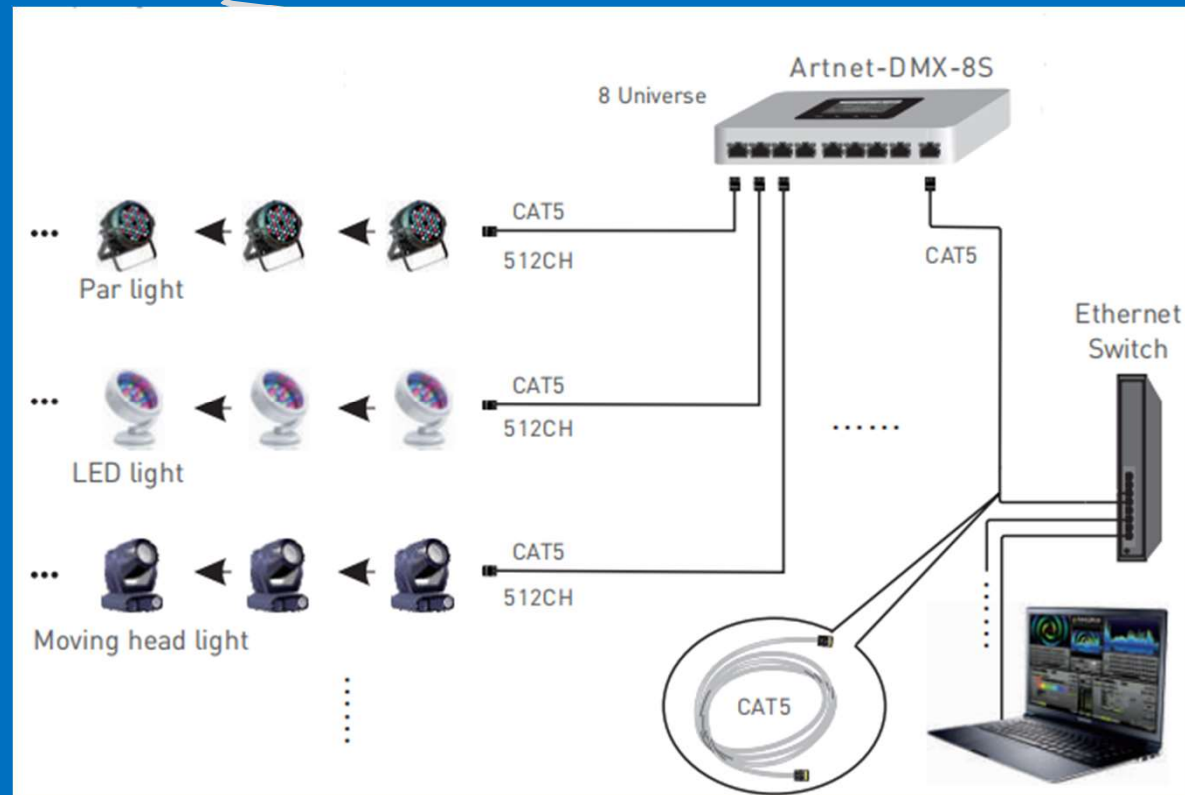
DALI Mechanism

- DALI is the young generation lighting control protocol in the realm of lighting control at present, Which adopt Manchester encoding transmission.

- With overall, grouping dimming, addressing dimming, various scene mode set, brightness traced, etc. powerful dimming function.

- Modern top grade hotel, shopping mall, household increasingly request high standard to lighting system.

- DALI protocol bus-mastering with simple, reliable, superior function etc. features, are used widely, showing the powerful advantage in the realm of intelligent lighting control.

LED Driver
Digital Dimmable

0.1% Depth Dimming   T-PWM Digital Dimming

* T-PWM dimming technology maintains CRI(color rendering index)unchangeable
* 0.1%-100% flicker-free wide dimming range
* Support PUSH DIM dimming
* Wide range voltage + Optional arbitrary current

LED INTELLIGENT LIGHTING CONTROL

DALI-50-500-1750-F1P2

DALI DRIVER

DALI, 1-10V Push Dim

LED Intelligent Driver

5W~50W   500~1750mA   10~54Vdc

* Dimming interface: DALI, 1-10V (0-10V,10V PWM,resistor), Push Dim.
* PWM digital dimming, no alter LED color rendering index.
* Dimming range: 0~100%, LED start at 0.1% possible.
* Power factor > 0.99, Efficiency > 85%.
* Multiple current, wide voltage, compatible with a variety of LED lights.
* Short circuit / Over-heat / Over load / Non-load protection.
* Non-load output voltage 0V to prevent damages to LED caused by poor contact.
* Class 2 power supply. Full protective plastic housing.
* DALI bus standard: IEC62386-101, 102, 207.
* Compliant with Safety Extra Low Voltage standard.
* Suitable for indoor environments.

SELV   CE   RoHS

| DALI 1-10V PUSH DIM | PWM Digital Dimming | PF >0.99 | >85% Efficiency | Over-heat Protection | Short Circuit Protection | Over Load Protection | Multiple Current |

Main Characteristics

Dimming Interface:	DALI, 1-10V (0-10V,10V PWM,resistor), Push Dim	Output Power Range:	5W~50W
Dimming Range:	0~100%, LED start at 0.1% possible.	Current Accuracy:	±3%
Input Voltage Range:	100-240Vac ±10%	Max Output Voltage:	58Vdc
Input Current:	115Vac≤0.6A, 230Vac≤0.3A	Non-load Output Voltage:	0Vdc
Power Factor:	PF>0.99/115Vac, PF>0.95/230Vac, at full load	Working Temperature:	tc: 80°C ta: -30°C ~ 55°C
Frequency:	50/60Hz	Working Humidity:	20 ~ 95%RH, non-condensing
Efficiency:	>85%	Storage Temp., Humidity:	-40 ~ 80°C, 10~95%RH
Inrush Current(typ.):	Cold start 50A at 230Vac	Temp. Coefficient:	±0.03%/°C(0-50°C)
Control Surge Capability:	L-N: 1kV	Vibration:	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes
Leakage Current:	<0.5mA/230Vac		
THD:	<10% at 115Vac, <20% at 230Vac (full load)		

Output Current:	500mA	700mA	900mA	1050mA	1200mA	1450mA	1600mA	1750mA
Output Voltage:	10-54V	10-54V	10-54V	10-48V	10-42V	10-34V	10-32V	10-29V
Output Power:	5-27W	7-37.8W	9-48.6W	10.5-50.4W	12-50.4W	14.5-49.3W	16-51.2W	17.5-50.8W

DALI-50-500-1750-F1P2

LED Intelligent Driver

5W~50W   500~1750mA   10~54Vdc

- Dimming interface: DALI, 1-10V (0-10V,10V PWM,resistor), Push Dim.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Power factor > 0.99, Efficiency > 85%.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Short circuit / Over-heat / Over load / Non-load protection.
- Non-load output voltage 0V to prevent damages to LED caused by poor contact.
- Class 2 power supply. Full protective plastic housing.
- DALI bus standard: IEC62386-101, 102, 207.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.

SELV   CE   RoHS

DALI 1-10V PUSH DIM | PWM Digital Dimming | PF >0.99 | >85% Efficiency | Over-heat Protection | Short Circuit Protection | Over Load Protection | Multiple Current

Main Characteristics

Dimming Interface:	DALI, 1-10V (0-10V,10V PWM,resistor), Push Dim	Output Power Range:	5W~50W
Dimming Range:	0~100%, LED start at 0.1% possible.	Current Accuracy:	±3%
Input Voltage Range:	100-240Vac ±10%	Max Output Voltage:	58Vdc
Input Current:	115Vac≤0.6A, 230Vac≤0.3A	Non-load Output Voltage:	0Vdc
Power Factor:	PF>0.99/115Vac, PF>0.95/230Vac, at full load	Working Temperature:	tc: 80°C ta: -30°C ~ 55°C
Frequency:	50/60Hz	Working Humidity:	20 ~ 95%RH, non-condensing
Efficiency:	>85%	Storage Temp., Humidity:	-40 ~ 80°C, 10~95%RH
Inrush Current(typ.):	Cold start 50A at 230Vac	Temp. Coefficient:	±0.03%/°C(0-50°C)
Control Surge Capability:	L-N: 1kV	Vibration:	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes
Leakage Current:	<0.5mA/230Vac		
THD:	<10% at 115Vac, <20% at 230Vac (full load)		

Output Current:	500mA	700mA	900mA	1050mA	1200mA	1450mA	1600mA	1750mA
Output Voltage:	10-54V	10-54V	10-54V	10-48V	10-42V	10-34V	10-32V	10-29V
Output Power:	5-27W	7-37.8W	9-48.6W	10.5-50.4W	12-50.4W	14.5-49.3W	16-51.2W	17.5-50.8W

SMART HOMES
Gateway with integrated infrared and RF Signals, remote real-time control via LAN, WiFi, 3G/4G mobile phone network
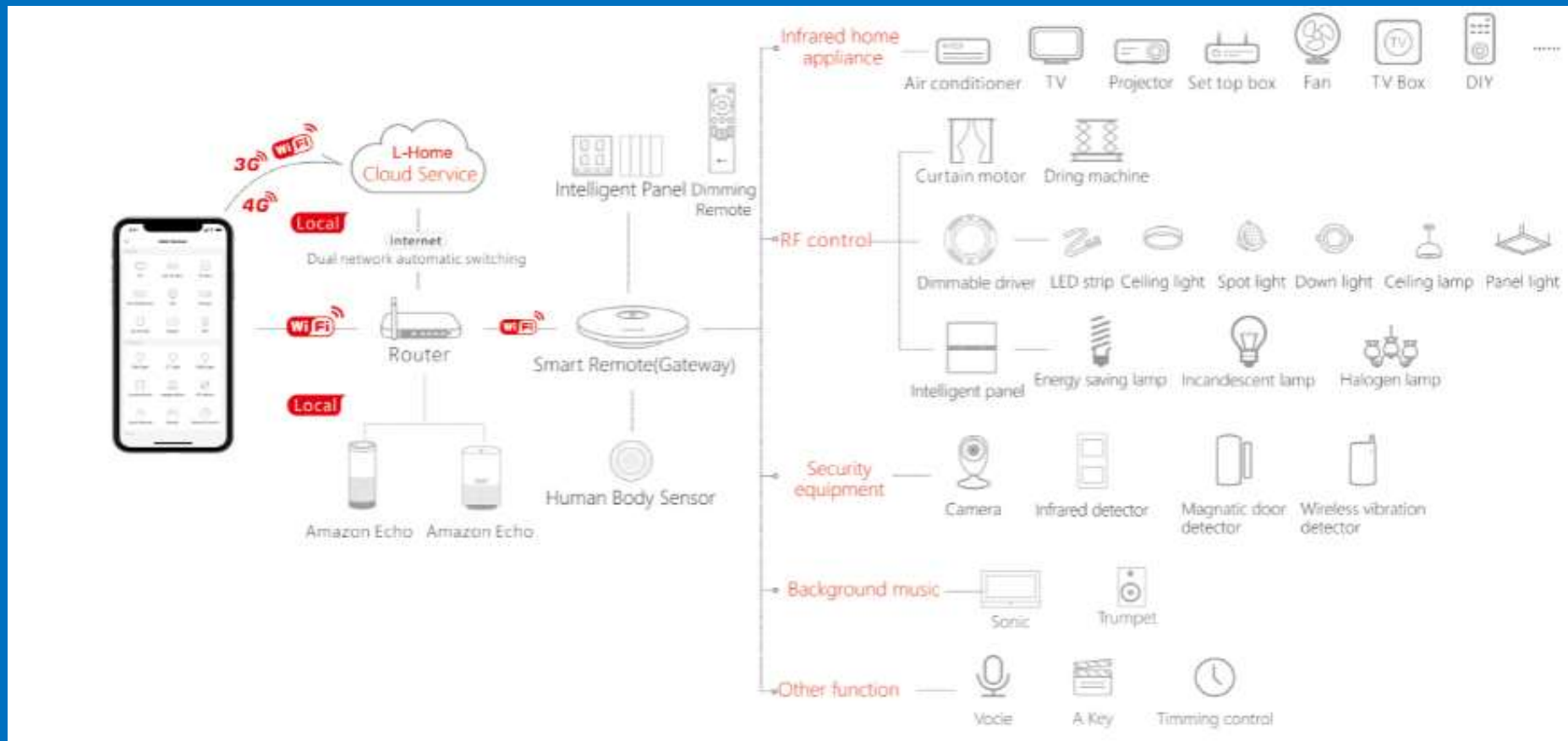
Features of Intelligent Solar / Courtyard Lights

- Integrated Aluminium Frame super breakage resistant and harsh environment resistant.

- Solar Panel Self Clean System.

- One-Click Control by clicking the APP and controlling the status of lighting

- 10+ days lighting even in rainy day .Remote control with 3 lighting modes .

- Spilt Solar Street Light design for high altitude (40W-150W)

- 360Deg Lighting decoration.

- Bright Solar Plaza light for cold and hot area.

- 2 PIR motion Sensors for more sensitive detection.

- Multi-Directional Adjustable

FAS(Faulty Alarm System) Technology:

When the light gets a fault, the client shall cooperate to check which module caused the fault, the checking work could easily cause divergence and misjudgment. It may cost a long analysis time, and the even worse customer refuses to cooperate.

In order to solve this problem, We developed the FAS technology.

Function description*:*

Reporting error of solar panel, lamp panel, control panel and battery pack by four indicators ;

Influence:

➢ Shorten after-sales analysis time, improve after-sales accuracy.

➢Improve customer user experience, shorten the overall after-sales time, offer customers more professional service.

➢Customer complaint rate decreased, customer satisfaction increase.
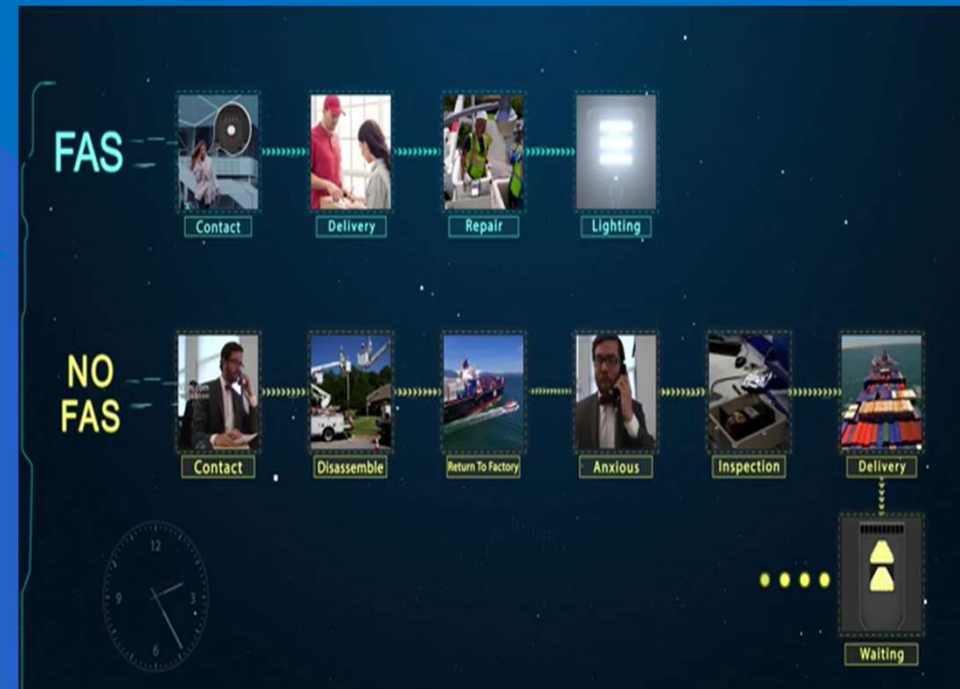
ALS(Adaptive Lighting System) Technology

Insufficient Lighting time and Brightness in case of failure was resolved by ALS technology :

Function Desciption

It calculates the remaining power and automatically controlling the discharge current in accordance with the weather conditions the lamp can keep lighting for more than 10 days even on cloudy or rainy days.

Influence

➢The lighting time is prolonged by 258%

➢Stronger guarantee for whole night's lighting.

➢Customer complaint rate is almost zero;

Brightess — ALS Advantage — 150% — 100% — 50% — 0% — 1 2 3 4 5 6 7 8 9 10 nights — ALS — Without ALS

TCS (Temperature Control System) Technology

Function description:

The lamp can work at -20℃ to 65℃ environment even though all the Li-ion only can work 0℃ -45℃, as our product has a temperature control system and special heat insulation protection, It can cut off the protection of the charging system to protect the lamp on low-temp and can maintain the temperature at a constant temperature without being affected on high-temp.

Influence:

➢Increase your sales area.

➢ Reduce your customer complaints.

➢Lower your after-sales cost.
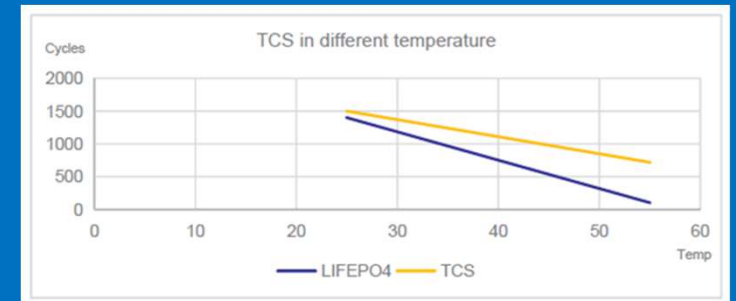
Garden Spot Light

Landscape Spot

RGBW4in1
(W=3000K/6000K)

Underground Up

Underwater Light

Flood Light

IP65

DECORATIVE LIGHTS

Area Light

High Bay Light

Wall Washer Light
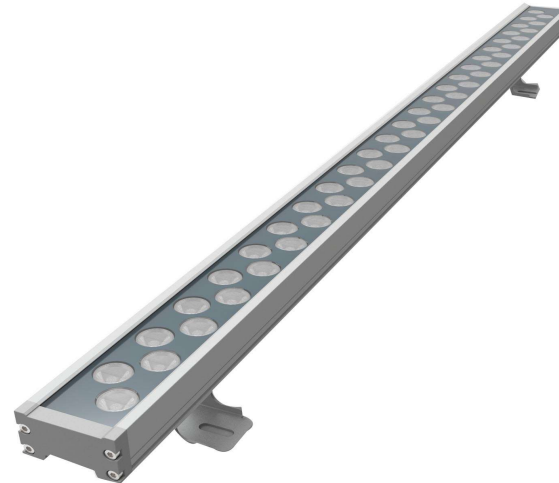
Wall Pack Light

Solar Landscape Light

Solar Wall Light

Solar Street Light

Solar Area Light

Solar Landscape Light

Solar Smart Street Light

iEngineering
idea + intelligence + integration

High Efficiency FLEXIBLE solar panel

15w LED Power

Aluminum pole

Solar Inbuilt Pole Lights

Solar AC-DC Hybried Lights

Solar Garden Lights

Solar Inbuilt Camera Lights

Solar Flood Lights

Solar High Mast Lights

SOLAR HIGHMAST LIGHT

SOLAR FLOOD LIGHT

SOLAR CAMERA LIGHT
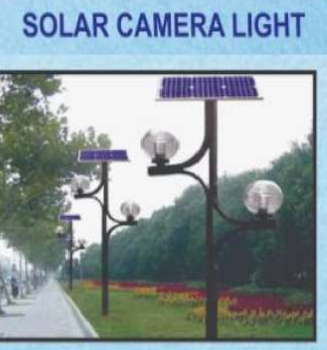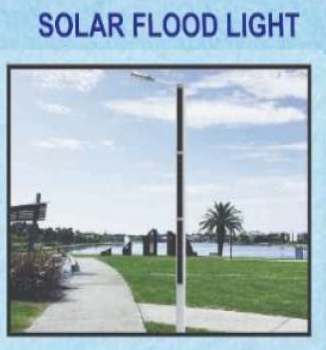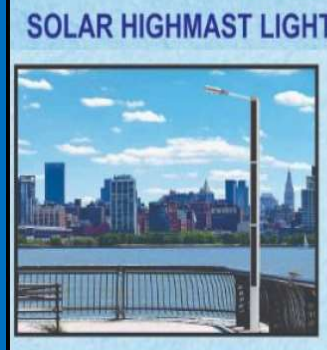
iMonitor

Features :

- If we don't record the video then it will catch the pictures 20 times per day and Cameras can work more than 7 days after fully charged.

- If turn on the lights and record the video then Solar Cameras can work about 4.5 hours after fully charged.

- If turn off the lights and record the video then Solar Cameras can work about 11 hours after fully charged.

HD Wi-Fi Solar Camera

Model type	LED power	Colour temperature	Luminaire net weight
SIC-103CW	10W	4000K	1.7kg

Solar Panel 2W

Solar Battery 2pcs 18650 Li-ion, 5200mAh

Solar Power Supply

P2P Wi Fi Router 2.4Ghz

Sony Sensor: im x 323

Notification :PIN Activated

Working Status Indicator

Operating Time >90 days

Colour Images Day and Night

Video 1080 p H264

Duplex Communication

Cloud Storage

4G Wireless Solar Power

- Light Dimming through App
- Arming and disarming function
- Solar Panel 3 W
- Solar Battery 3pcs 18650 Li-ion,7800mAh

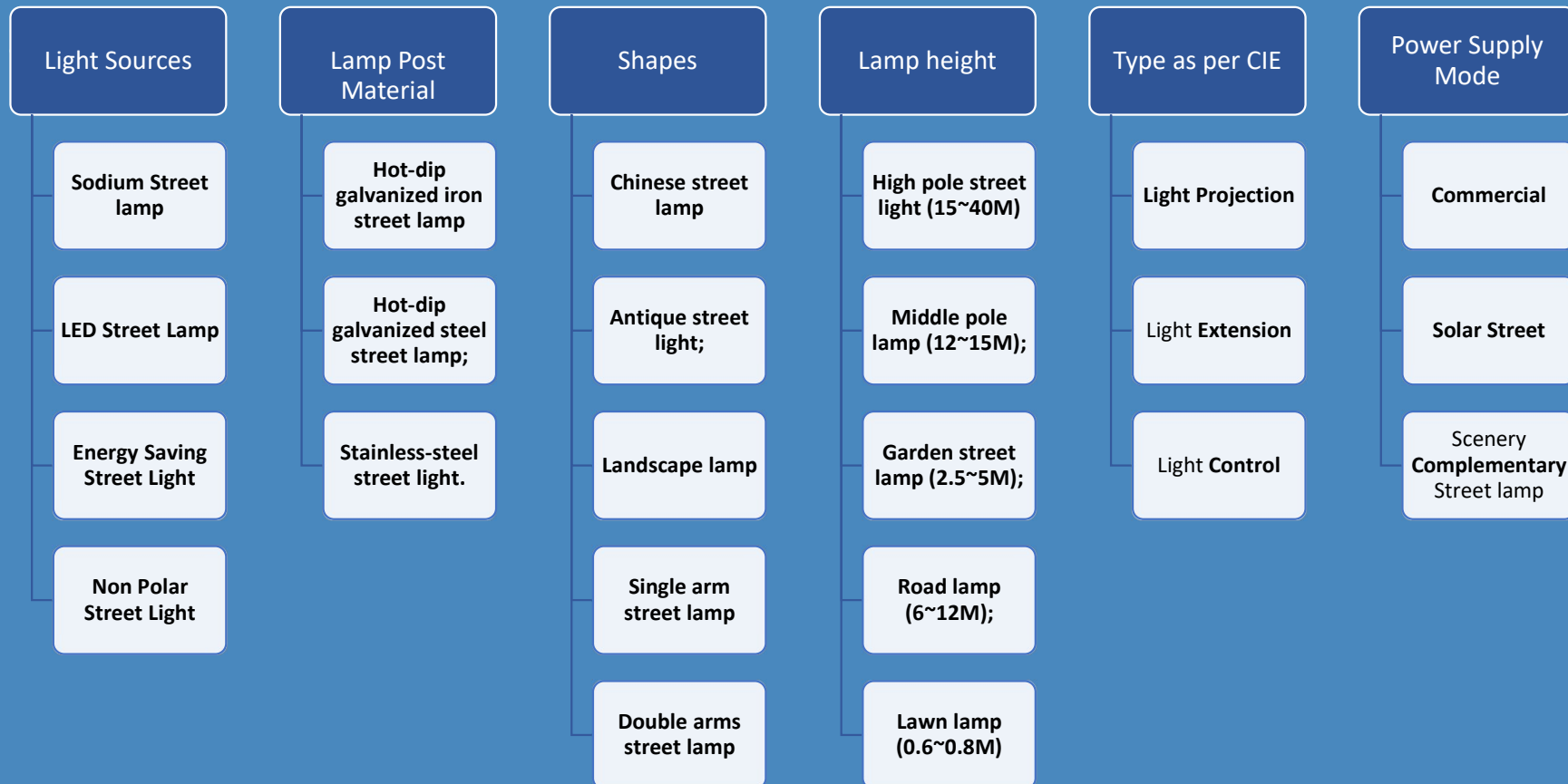| Model type	LED power	Colour temperature	Luminaire net weight
SIC-105CG	10W	4000K	1.3kg

INDICATORS of STREET LIGHTS

Light Sources	Lamp Post Material	Shapes	Lamp height	Type as per CIE	Power Supply Mode
Sodium Street lamp	Hot-dip galvanized iron street lamp	Chinese street lamp	High pole street light (15~40M)	Light Projection	Commercial
LED Street Lamp	Hot-dip galvanized steel street lamp;	Antique street light;	Middle pole lamp (12~15M);	Light Extension	Solar Street
Energy Saving Street Light	Stainless-steel street light.	Landscape lamp	Garden street lamp (2.5~5M);	Light Control	Scenery Complementary Street lamp
Non Polar Street Light		Single arm street lamp	Road lamp (6~12M);		
		Double arms street lamp	Lawn lamp (0.6~0.8M)		

LED STREET LIGHTS

Longer Life Span- 30,000–80,000 hours or longer

Durability: more stable in harsh environment

Instant on: bright instantly and with no re-strike delay

Equipped with Zhaga Book 18 Socket

Energy efficiency: LEDs use 50% less electricity than traditional incandescent

Why is Street Light so important??

Reduce crime: scare and beware the criminals

Safety: reduce the risks of accidents and injuries

Beauty: add charm to the city

200W LED Street Light Head IP65 Waterproof Module Street light
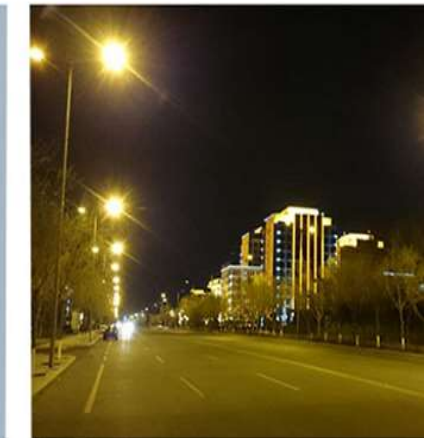
Unique appreance,
Customized LOGO

IP65
OUTDOOR RATED

CE RoHS

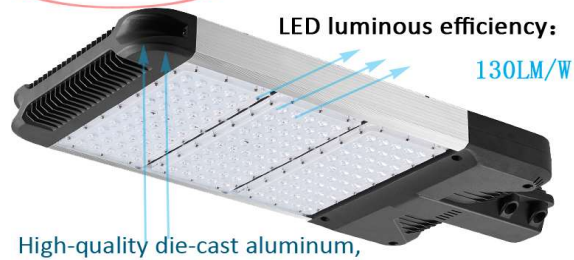**Lamp beads:** Long lifespan, durable,and high efficiency

Thickened interface:
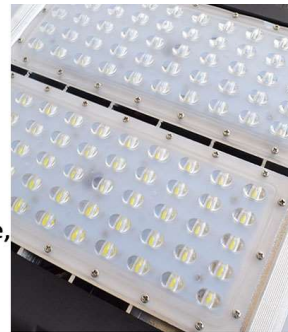Using thick aluminum material, more safe and stable, waterproof and rustproof, durable

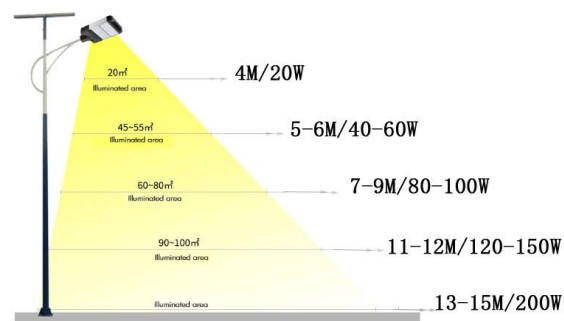# 150W Module Street Light 120W Street Light

PHILIPS 3030 LIGHT SOURCE

LED luminous efficiency:

130LM/W

High-quality die-cast aluminum,

LED lens:

Waterproof lens,

high hardness,

not fragile,

high light transmittance,

uniform

and transparent light.

INSTALLATION SUGGESTION

Illuminated area	Power
20㎡ Illuminated area	4M/20W
45~55㎡ Illuminated area	5-6M/40-60W
60~80㎡ Illuminated area	7-9M/80-100W
90~100㎡ Illuminated area	11-12M/120-150W
Illuminated area	13-15M/200W

120W LED Solar Street Light COB Street Lamp Head

Split Solar Street Light

- Fast Charging Keep lighting on for 10 rainy days.

- High Brightness 4000-1500 Lumen Can illuminate 3-4 lanes. Long Battery Life even in the – 20Deg C area.

- Self fault Alarm System for easy maintenance

Solar Courtyard Light

Remote control for different lighting mode

PIR motion Sensor for Energy Saving

Brightness Adjustable and Timer Function

ALS technology for all night lighting in cloudy or rainy day.

LIGHT IN LESS THE SMARTEST WAY

CONTACT US :iENGINEERING AUSTRALIA PTY LTD.

ADDR:- BUILDING T2A,

 WARAWARA CIRCUIT,
QUAKER HILLS, NSW 2763

OFFICE:- +61 (0)2 83207682

 MOBILE:- +61 (0) 467 055 252

EMAIL:-DNAIKER@IENGAUST.COM.AU