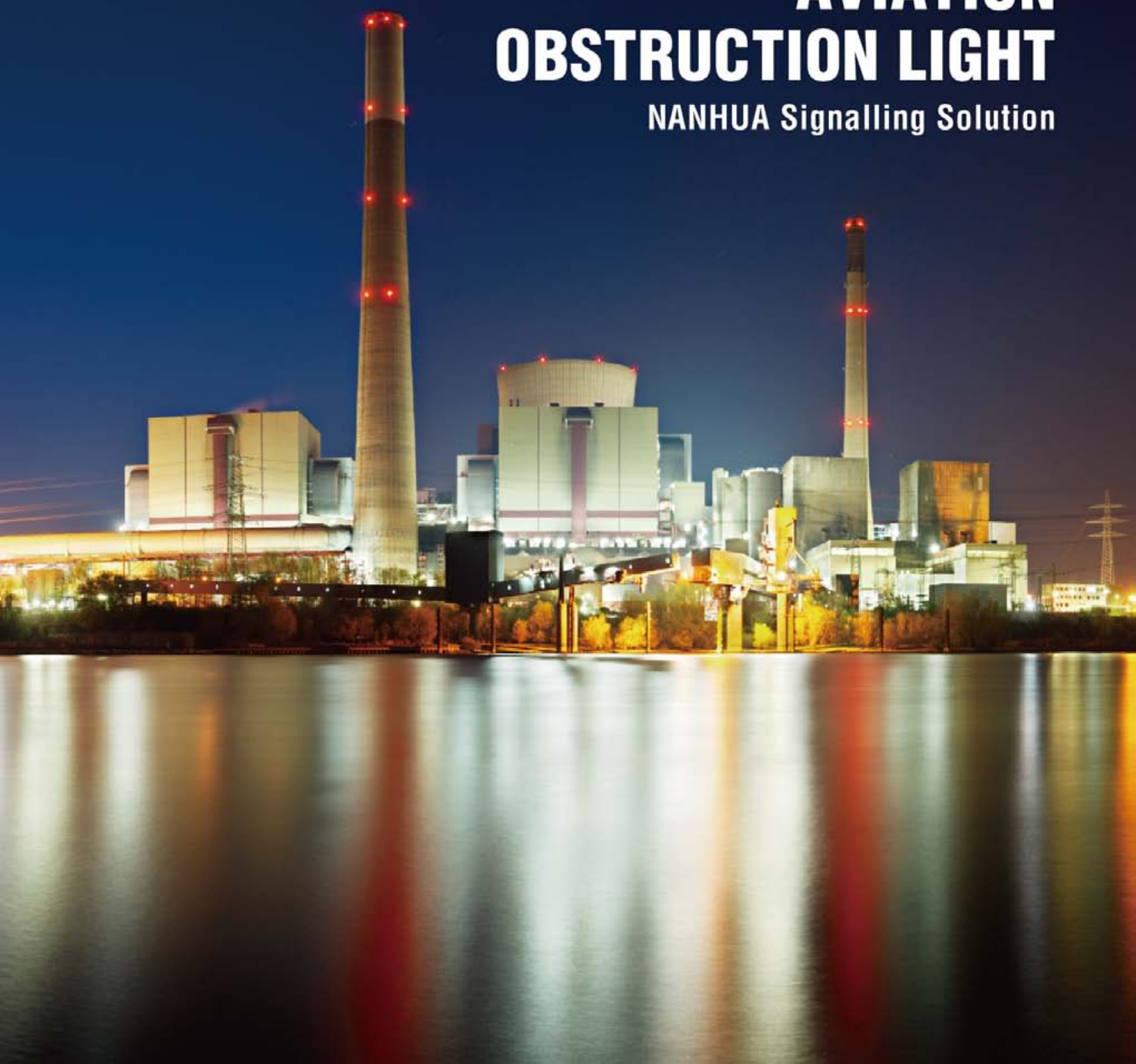


AVIATION OBSTRUCTION LIGHT

NANHUA Signalling Solution



CONTENTS

About NANHUA.....	02
Low Intensity Obstruction Lights.....	03—05
Medium Intensity Obstruction Lights.....	06—10
High Intensity Obstruction Lights.....	11—12
Solar Obstruction Lights.....	14—19
Marine Navigation Lights.....	20—23
Smart Control System.....	24—26





ABOUT NANHUA

Become a worldwide
In industrial field
A leading lighting / signal
Control products and service supplier
R&D world leading
LEDs driver and control system
Use high efficient, reliable
And competitive products
To create values for customers

Shanghai NANHUA Electronics Co., Ltd is an independent enterprise with modern management which is founded in 1990, located in Shanghai, China.

NANHUA has passed the ISO9001 quality system certification, ISO14001 environmental management system certification, OHSAS18001 occupational health and safety management system and a series of certification.

We design, manufacture and sell world leading signal, lighting and control products which be applied in industrial areas, marine environment and hazardous environment.

Up to date, NANHUA products have been sold all over the world.

Since 2005, NANHUA began to focusing on aviation obstruction light system, has full experience in the complete line of cost-effective obstruction lighting and control solutions, and applications including wind power generator, telecom tower, smokestacks, cranes, skyscraper and any other potentially hazardous obstructions to air traffic.

NANHUA will continue to maintain reliable, safety and simple R&D concepts, combine with the latest technology, commit to developing new products to help customer solve problems and enhance customer value.

And we are very pleasure to assume the responsibility to work and share a happy life with our customer, partners and colleagues.



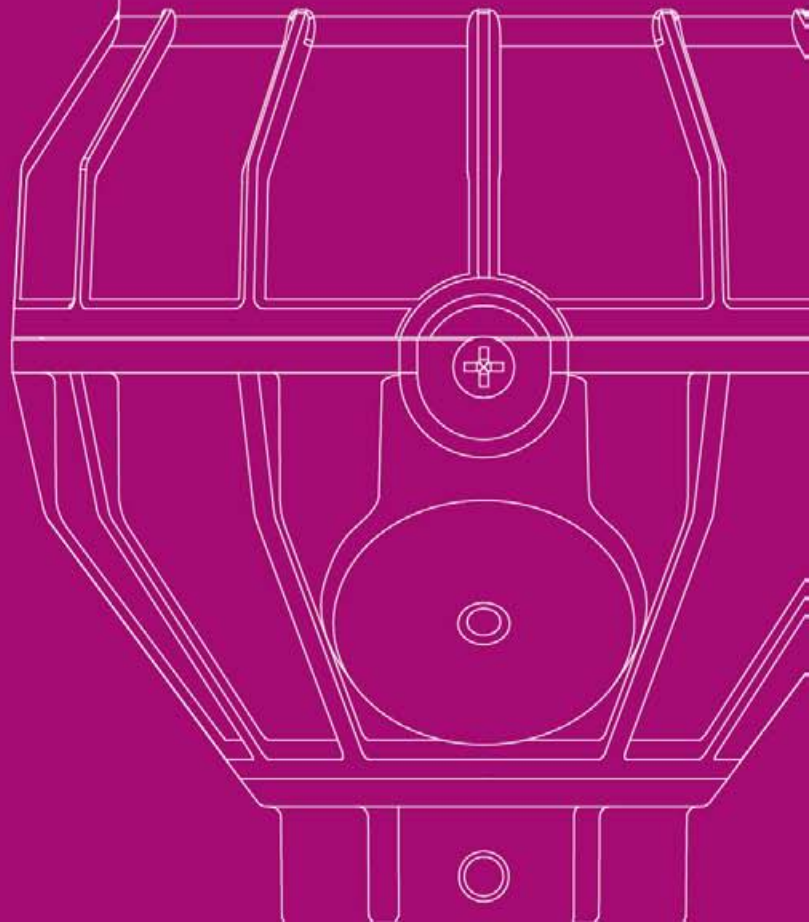
Low Intensity Obstruction Lights

- LS810 Aviation Obstruction Light

Low Intensity Type A & B

- LS810D Aviation Obstruction Light

Dual Low Intensity Type A & B



LS810 Aviation Obstruction Light Low Intensity Type A & B



Major functions& Features

- Professional outdoor waterproof, anti- wind and anti- corrosion.
- No EMI or RFI.
- Compact structure, small size, light weight.
- Easy mounting: G3/4"pipe thread and outgoing line.
- Multiple function options: internal photocell; Alarming signal output; Steady burning or flashing adjustable.

Main specifications

Design Standards	ICAO ANNEX 14, VOLUME I, TYPE A&B LOW INTENSITY FAA~L810 CAAC
Rated Voltage	AC100~240V&DC48V / DC12~24V
Lamp Source	LED
Light Color	Aviation red
Rated Power Consumption	4W
Intensity	10cd / 32.5cd
Horizontal Beam Spread	360°
Vertical Beam Spread	≥ 10°
Signal Type	Steady Burning or Flashing (flash rate can be selected)
On/off level	500Lux
LED Lifespan	≥ 50,000hrs
Operating Temperature	-40°C ~ +70°C
Ambient Humidity	10%~95%
IP Rate	IP66
Material	Lens: PC Housing: Aluminum alloy
Net Weight	300g

Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines
- Chimneys / Stacks
- Buildings and other tall structures
- Cranes

LS810D Aviation Obstruction Light Dual Low Intensity Type A & B



Major functions& Features

- Professional outdoor waterproof, anti- wind and anti- corrosion.
- No EMI or RFI.
- Compact structure, small size, light weight.
- Easy mounting: G3/4"pipe thread and outgoing line.
- When and if service light fails, the controller will switch on the standby light automatically.
- Multiple function option: internal photocell; Alarming signal output; Steady burning or flashing adjustable.



Application

- Telecom Towers
- Broadcast Towers
- Small Wind Turbines
- Chimneys / Stacks
- Buildings and other tall structures
- Cranes

Main specifications

Design Standards	ICAO ANNEX 14, VOLUME I, TYPE A&B LOW INTENSITY FAA~L810 CAAC
Rated Voltage	AC100~240V/ DC12~48V
Lamp Source	LED
Light Color	Aviation red
Rated Power Consumption	4W
Intensity	10cd / 32.5cd
Horizontal Beam Spread	360°
Vertical Beam Spread	≥ 10°
Signal Type	Steady Burning or Flashing (flash rate can be selected)
On/off level	500Lux
LED Lifespan	≥ 50,000hrs
Operating Temperature	-40°C ~ +70°C
Ambient Humidity	10%~95%
IP Rate	IP66
Material	Lens: PC Housing: Aluminum alloy
Net Weight	2.2kg



Medium Intensity Obstruction Lights

- LM101 Aviation Obstruction Light
Medium Intensity Type B

- LM212 Aviation Obstruction Light
Dual Medium Intensity Type B

- LM100 Aviation Obstruction Light
Medium Intensity Type B

- LM40 Aviation Obstruction Light
Medium Intensity Type A

LM101 Aviation Obstruction Light Medium Intensity Type B



Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines
- Chimneys / Stacks
- Buildings and other tall structures
- Cranes

Major functions& Features

- Imported high brightness LED.
- National patent for heat dissipation.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- Multiple function option: internal photocell; Alarming signal output; Steady burning or flashing adjustable; Adjustable flash rate; Internal GPS synchronization.

Main specifications

Design Standards	ICAO ANNEX 14, VOLUME I, TYPE B Medium INTENSITY FAA-L864
Rated Voltage	AC100~240V/DC48V
Lamp Source	LED
Light Color	Aviation red
Rated Power Consumption	65W (Steady burning) 15W (Flashing)
Intensity	2000cd±25%
Horizontal Beam Spread	360°
Vertical Beam Spread	≥3°
Signal Type	Steady Burning or Flashing(flash rate can be selected: 20FPM~60FPM)
On/off level	50Lux
LED Lifespan	≥50,000hrs
Operating Temperature	-40°C ~ +70°C
Ambient Humidity	10%~95%
IP Rate	IP65
Material	Lens: PC Housing: Aluminum alloy Reflector: ABS, vacuum plating
Net Weight	4.5kg

LM212 Aviation Obstruction Light Dual Medium Intensity Type B



Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines
- Chimneys / Stacks
- Buildings and other tall structures
- Cranes

Major functions& Features

- Imported high brightness LED.
- National patent for heat dissipation.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- When and if service light fails, the controller will switch on the standby light automatically.
- Multiple function option: internal photocell; Alarming signal output; Steady burning or flashing adjustable; Adjustable flash rate; Internal GPS synchronization.

Main specifications

Design Standards	ICAO ANNEX 14, VOLUME I, TYPE B Medium INTENSITY FAA-L864
Rated Voltage	AC100~240V/DC48V
Lamp Source	LED
Light Color	Aviation red
Rated Power Consumption	65W (Steady burning) 15W (Flashing)
Intensity	2000cd±25%
Horizontal Beam Spread	360°
Vertical Beam Spread	≥3°
Signal Type	Steady Burning or Flashing (flashing rate can be selected: 20FPM~60FPM)
On/off level	50Lux
LED Lifespan	≥50,000hrs
Operating Temperature	-40°C ~ +70°C
Ambient Humidity	10%~95%
IP Rate	IP65
Material	Lens: PC Housing: Aluminum alloy Reflector: ABS, vacuum plating
Net Weight	5.5kg

LM100 Aviation Obstruction Light Medium Intensity Type B



Major functions& Features

- Imported high brightness LED.
- National patent for heat dissipation.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- Multiple function option: internal photocell; Alarming signal output; Steady burning or flashing adjustable; Adjustable flash rate; Internal GPS synchronization.

Main specifications

Design Standards	ICAO ANNEX 14, VOLUME I, TYPE B Medium INTENSITY FAA~L864
Rated Voltage	AC100~240V/DC48V
Lamp Source	LED
Light Color	Aviation red
Rated Power Consumption	65W (Steady burning) 15W (Flashing)
Intensity	2000cd±25%
Horizontal Beam Spread	360°
Vertical Beam Spread	≥3°
Signal Type	Steady Burning or Flashing (flashing rate can be selected: 20FPM~60FPM)
On/off level	50Lux
LED Lifespan	≥50,000hrs
Operating Temperature	-40℃ ~ +70℃
Ambient Humidity	10%~95%
IP Rate	IP65
Material	Lens: PC Housing: Aluminum alloy
Net Weight	9.5kg

Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines
- Chimneys / Stacks
- Buildings and other tall structures
- Cranes
- Skyscraper

LM40 Aviation Obstruction Light Medium Intensity Type A



Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines
- Chimneys / Stacks
- Buildings and other tall structures
- Cranes
- Skyscraper

Major functions& Features

- Imported high brightness LED.
- National patent for heat dissipation.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- Multiple function option: internal photocell; Alarming signal output; Steady burning or flashing adjustable; Adjustable flash rate; Internal GPS synchronization.

Main specifications

Design Standards	ICAO ANNEX 14, VOLUME I, TYPE A Medium INTENSITY FAA~L865
Rated Voltage	AC100~240V/DC48V
Lamp Source	LED
Light Color	White / White +Red
Rated Power Consumption	Day<200W Night<30W
Lamp Source Power	≥900W
Intensity	Day 20000±25% cd (White) Night 2000±25% cd (White or red)
Horizontal Beam Spread	360°
Vertical Beam Spread	≥3°
Signal Type	Steady Burning or Flashing(flash rate can be selected: 20FPM~60FPM)
Flashing duration	Day: 150ms Night: 750ms
On/off level	50~200Lux
LED Lifespan	≥50,000hrs
Operating Temperature	-40°C ~ +70°C
Ambient Humidity	10%~95%
IP Rate	Light Head: IP66 Power Box: IP65
Material	Light Head: Lens: PC Housing: Aluminum alloy Power Box: Cold Rolled Steel/ Stainless Steel(Optional)
Net Weight	Light Head: 7kg Power Box: 13kg



High Intensity Obstruction Lights

- LH88 Aviation Obstruction Light

LH88 Aviation Obstruction Light



FAA-L856



FAA-L857



ICAO High
Intensity Type A



ICAO High
Intensity Type B

Application

- Wind Turbines
- Chimneys / Stacks
- Buildings and other tall structures
- Skyscraper

Major functions& Features

- Imported high brightness LED.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti-wind and anti-corrosion.
- Vertical aiming angle adjustable between 0 and +8 degrees.
- Multiple functions option: Flash rate adjustable, Internal GPS synchronization, Wireless communication
- Dual lighting system(white & red) optional

Main specifications

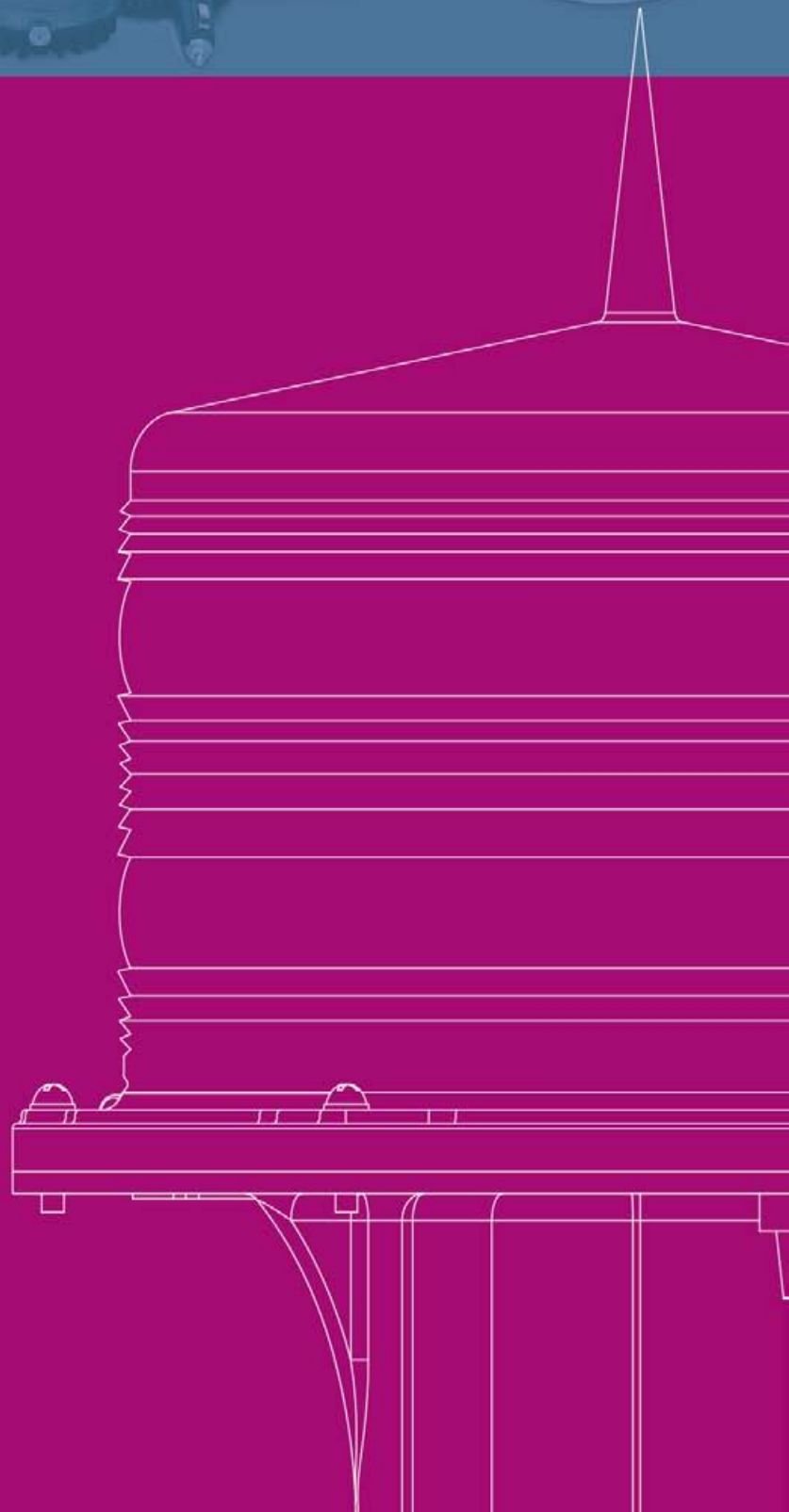
Rated Voltage	AC100-120V/AC200-240V/DC48V
Lamp Source	LED
Horizontal Beam Spread	120°
Vertical Beam Spread	3°-7°
On/Off Level	Daytime: 500Lux Twilight:50-500Lux Night: 50Lux
LED Lifespan	>50,000hrs
Storage Temperature	-55℃ ~ +55℃
Operating Temperature	-40℃ ~ +55℃
Ambient Humidity	10%-95%
Wind Speed	240km/hr
IP Rate	Light Head:IP66 Power Box:IP65
Material	Lens:PC Housing: Aluminum alloy

Art No.	Order code	Name & Standard	Intensity(cd)	Light Color	Flash Rate
LH88	001	FAA-L856	Day: 270,000±25%; Twilight:20,000±25%; Night:2,000±25%	white	40FPM
LH88	002	FAA-L857	Day: 140,000±25%; Twilight:20,000±25%; Night:2,000±25%	white	60FPM
LH88	003	ICAO High Intensity Type A	Day: 200,000±25%; Twilight:20,000±25%; Night:2,000±25%	white	40-60FPM
LH88	004	ICAO High Intensity Type B	Day: 100,000±25%; Twilight:20,000±25%; Night:2,000±25%	white	40-60FPM



Solar Obstruction Lights

- LT101 Solar Aviation Obstruction Light
Low Intensity Type A
- LT601U Solar Aviation Obstruction Light
Low Intensity Type A
- LT602U Solar Aviation Obstruction Light
Dual Low Intensity Type B
- LT810A Solar Aviation Obstruction Light
Low Intensity Type B
- LT864B Solar Aviation Obstruction Light
Medium Intensity Type B
- LT864C Solar Aviation Obstruction Light
Dual Medium Intensity Type B



LT101 Solar Aviation Obstruction Light Low Intensity Type A



Major functions& Features

- Imported high brightness LED.
- Built in NiMH battery, easy for replacement.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- Built – in photocell, bird spike
- Extremely reliable major maintenance cost saving.

Main specifications

Design Standards	ICAO ANNEX 14, LOW INTENSITY TYPE A, FAA~L810
Lamp Source	LED
Light Color	Aviation RED
Solar Battery Power Consumption	1.8W
Battery Capacity	3.6V/8AH (Maintenance-free)NiMH
Autonomy	20 days
Intensity	> 10cd
Horizontal Beam Spread	360°
Vertical Beam Spread	≥ 10°
Signal Type	Flashing
On/off level	70/100 Lux (on / off)
LED Lifespan	≥ 50,000hrs
Operating Temperature	-30°C ~ +70°C
Ambient Humidity	10%~95%
IP Rate	IP65
Material	Base: Aluminum Alloy, Housing: PC
Net Weight	2.3kg

Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines for Temporary Use
- Chimneys / Stacks for Temporary Use
- Cranes

LT601U Solar Aviation Obstruction Light Low Intensity Type A



Major functions& Features

- Imported high brightness LED.
- Built in NiMH battery, easy for replacement.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- Built – in photocell
- Extremely reliable major maintenance cost saving.



Main specifications

Design Standards	ICAO ANNEX 14, LOW INTENSITY TYPE A, FAA~L810
Lamp Source	LED
Light Color	Aviation RED
Battery capacity	3.6V/8AH NiMH * 2
Solar Panel	6W/10V
Intensity	> 10cd
Horizontal Beam Spread	360°
Vertical Beam Spread	≥ 10°
Autonomy	7 days
Signal Type	Steady Burning
On/off level	500 Lux
LED Lifespan	≥ 50,000hrs
Operating Temperature	-40°C ~ +55°C
Ambient Humidity	10%~95%
IP Rate	IP65
Material	Base: Aluminum alloy, Housing: PC
Net Weight	3.5kg

Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines for Temporary Use
- Chimneys / Stacks for Temporary Use
- Cranes

LT602U Solar Aviation Obstruction Light Dual Low Intensity Type B



Major functions& Features

- Imported high brightness LED.
- Built in NiMH battery, easy for replacement.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- Built – in photocell
- Two methods can be customized (Main light steady burning / flash, another one standby or two lights work together)

Main specifications

Design Standards	ICAO ANNEX 14, LOW INTENSITY TYPE B, FAA~L810
Lamp Source	LED
Light Color	Aviation RED
Battery capacity	3.6V/8AH
Solar Panel	6W/10V (Main light steady burning &another one standby) 6W/5V (Main light flash & another one standby)
Intensity	>32.5cd
Horizontal Beam Spread	360°
Vertical Beam Spread	≥ 10°
Autonomy	7 days
Signal Type	Steady Burning / flash (optional)
On/off level	300 Lux
LED Lifespan	≥ 50,000hrs
Operating Temperature	-40°C ~ +55°C
Ambient Humidity	10%~95%
IP Rate	IP65
Material	Base: Aluminum alloy, Housing: PC
Net Weight	3.3kg

Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines for Temporary Use
- Chimneys / Stacks for Temporary Use
- Cranes

LT810A Solar Aviation Obstruction Light Low Intensity Type B



Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines for Temporary Use
- Chimneys / Stacks for Temporary Use
- Cranes

Major functions& Features

- Imported high brightness LED.
- Built in NiMH battery, easy for replacement.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- Built – in photocell, bird spike
- Extremely reliable major maintenance cost saving.
- Extremely reliable major maintenance cost saving.

Main specifications

Design Standards	ICAO ANNEX 14, LOW INTENSITY TYPE B, FAA~L810
Lamp Source	LED
Light Color	Aviation RED
Battery capacity	3.6V/8AH
Solar Panel	4W/5V
Intensity	>32.5cd
Horizontal Beam Spread	360°
Vertical Beam Spread	≥ 10°
Autonomy	7 days
Signal Type	Flash
On/off level	70/100 Lux
Flash Rate	15/20/30 FPM (adjustable)
LED Lifespan	≥50,000hrs
Operating Temperature	-40°C ~ +55°C
Ambient Humidity	10%~95%
IP Rate	IP65
Material	Base: Aluminum alloy, Housing: PC
Net Weight	4.6kg

LT864B Solar Aviation Obstruction Light Medium Intensity Type B



Major functions& Features

- Imported high brightness LED.
- Built in NiMH battery, easy for replacement.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- Built – in photocell, highlight LED
- Extremely reliable major maintenance cost saving.

Main specifications

Design Standards	ICAO ANNEX 14, MEDIUM INTENSITY TYPE B, FAA-L864
Lamp Source	LED
Light Color	Aviation RED
Power Supply	18V/12W silicon solar panel 12V/12AH battery
Power Consumption	30W
Intensity	2000±25%cd
Horizontal Beam Spread	360°
Vertical Beam Spread	≥3°
Autonomy	7 days
Signal Type	Flash
Flash Rate	20FPM
On/off level	50~200Lux
LED Lifespan	≥50,000hrs
Operating Temperature	-40°C ~ +55°C
Ambient Humidity	10%~95%
IP Rate	IP65
Material	Case: cold rolled sheet (Powder paint), base: Aluminum alloy Housing : PC Reflector: ABS
Net Weight	11kg

Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines
- Chimneys / Stacks
- Cranes

LT864C Solar Aviation Obstruction Light Dual Medium Intensity Type B



Major functions& Features

- Imported high brightness LED.
- Built in NiMH battery, easy for replacement.
- Strictly refer to international standard of optical requirement.
- Professional outdoor waterproof, anti- wind and anti- corrosion.
- Built – in photocell, highlight LED
- Extremely reliable major maintenance cost saving.

Main specifications

Design Standards	ICAO ANNEX 14, MEDIUM INTENSITY TYPE B, FAA-L864
Lamp Source	LED
Light Color	Aviation RED
Power Supply	18V/12W silicon solar panel 12V/12AH battery
Power Consumption	30W
Intensity	2000±25%cd
Horizontal Beam Spread	360°
Vertical Beam Spread	≥3°
Autonomy	7 days
Signal Type	Flash
Working type	Base layer working, top layer standby
Flash Rate	20~60FPM customized
On/off level	50~200Lux
LED Lifespan	≥50,000hrs
Operating Temperature	-40°C ~ +55°C
Ambient Humidity	10%~95%
IP Rate	IP65
Material	Case: cold rolled sheet (Powder paint), base: Aluminum alloy Housing : PC Reflector: ABS
Net Weight	11kg

Application

- Telecom Towers
- Broadcast Towers
- Wind Turbines
- Chimneys / Stacks
- Cranes



Marine Navigation Lights

- ML201A 2nh Marine navigation light
- ML411A 4nh Marine navigation light
- ML50 5nh Marine navigation light

ML201A 2nh Marine Navigation Light



Application

- Ocean buoy;
- River buoy;
- Offshore mark;
- Offshore oil platform;
- Fixed light beacon.
- Telecom Towers
- Offshore Wind Turbines

Major functions& Features

- Color complies with IALA Recommendations E-200-1.
- Integrated design, enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP68).
- PC housing, UV resistance, shockproof and corrosion proof. With bird spike.
- 256 kinds of adjustable flashing rate are available, comply with IALA.
- Intensity is continuously adjustable. Photocell controls On/Off automatically and the value of luminance switch can be adjusted.
- Extremely Reliable and cost saving.
- No RF-radiations, EMC compliant.

Main specifications

Intensity	10cd
Visible Range	> 2.5NM
Lamp Source	LED
LED Lifespan	≥ 50,000hrs
Flash Rate	IALA 256 kinds of Flash rate adjustable (MOS code)
Beam Spread	Horizontal: 360°Vertical > 9°
Light color	Red, Green, Blue, Yellow, White
Operating Temperature	-30°C~ +70°C
Ambient Humidity	10%~95%
IP Rate	IP68
Battery	High grade NiMH-Environment friendly
Battery Capacity	3.6V/8AH
Autonomy	> 20 days (12 hours darkness, 12.5% duty cycle)
On/off level	300 lux ± 100 lux
Material	PC(UV resistant)
Net Weight	1.7kg

ML411A 4nh Marine Navigation Light



Major functions& Features

- Color complies with IALA Recommendations E-200-1.
- Integrated design, enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP68).
- PC housing, UV resistance, shockproof and corrosion proof. With bird spike.
- 256 kinds of adjustable flashing rate are available, comply with IALA.
- Intensity is continuously adjustable. Photocell controls On/Off automatically and the value of luminance switch can be adjusted.
- Extremely Reliable and cost saving.
- Solar power is available (Optional).
- GPS Synchronization (Optional).
- GSM faulty alarm function (Optional).

22

Application

- Ocean buoy;
- River buoy;
- Offshore mark;
- Offshore oil platform;
- Fixed light beacon.
- Telecom Towers
- Offshore Wind Turbines

Main specifications

Visible Range	> 4 NM
Lamp Source	LED
LED Lifespan	> 50,000hrs
Flash Rate	IALA 256 kinds of Flash rate adjustable (MOS code)
Beam Spread	Horizontal: 360°Vertical > 7°
Light color	Red, Green, Blue, Yellow, White
Intensity	> 40cd
Autonomy	> 30 days (14 hours darkness, 12.5% duty cycle)
Battery	Maintenance free sealed lead acid battery
Battery Capacity	12V/12AH
On / Off level	300lux ± 100 lux, end user can adjust it
Operating Temperature	-40°C~+80°C
Ambient Humidity	10%~95%
IP Rate	IP68
Material	PC(UV resistant)
Net Weight	5.9kg

ML50 5nh Marine Navigation Light



Major functions& Features

- Color complies with IALA Recommendations E-200-1.
- Integrated design, enabling a rugged and completely waterproof seal capable of prolonged and deep immersion (IP68).
- PC housing, UV resistance, shockproof and corrosion proof. With bird spike.
- 256 kinds of adjustable flashing rate are available, comply with IALA.
- Intensity is continuously adjustable. Photocell controls On/Off automatically and the value of luminance switch can be adjusted.
- Extremely Reliable and cost saving.
- Solar power is available (Optional).
- GPS Synchronization (Optional).
- GSM faulty alarm function (Optional).

Application

- Ocean buoy;
- River buoy;
- Offshore mark;
- Offshore oil platform;
- Fixed light beacon.
- Telecom Towers
- Offshore Wind Turbines

Main specifications

Rated Voltage	AC100V~AC240V/DC12~DC48V
Power Frequency	50Hz~60Hz
Power Consumption	6W
LED Lifespan	≥ 50,000hrs
Flash Rate	IALA 256 kinds of Flash rate adjustable (MOS code)
Beam Spread	Horizontal: 360°Vertical > 10°
Light color	Red, Green, Blue, Yellow, White
Intensity	> 77cd
Operating Temperature	-40°C~+60°C
Ambient Humidity	10%~95%
IP Rate	IP68
Material	PC(UV resistant)
Net Weight	<3kg



Intelligent Control System

- FR19 Control Box

- FR30 Control Box With UPS

FR19 Control Box



Application

FR19 for the fault alarm output, ON/OFF and flash frequency control for aviation obstruction light also can be used to control street light.

Main Functions & Features

- Control the aviation lights flash synchronously.
- With fault alarm function. When any light fails, there will be with alarm indicator and fault signal output.
- Alarm signal is relay contactor output, no power source.
- With photocell/manual switchover device. If you do not need photocell function, it could change to manual control model by this device.
- External photocell switch.

Main specifications

Operating voltage	AC110V~AC240V/DC48V
Control circuit branch	8 channel
Flashing rate	30 FPM (other for customized)
Photocell on/off level	70~100Lux
Alarm output	Dry contact output (relay)
Control mode	Steady burning or flash
Operating temperature	-30°C ~ +70°C
Humidity	10% ~ 95% (no coagulation)

FR30 Control Box With UPS



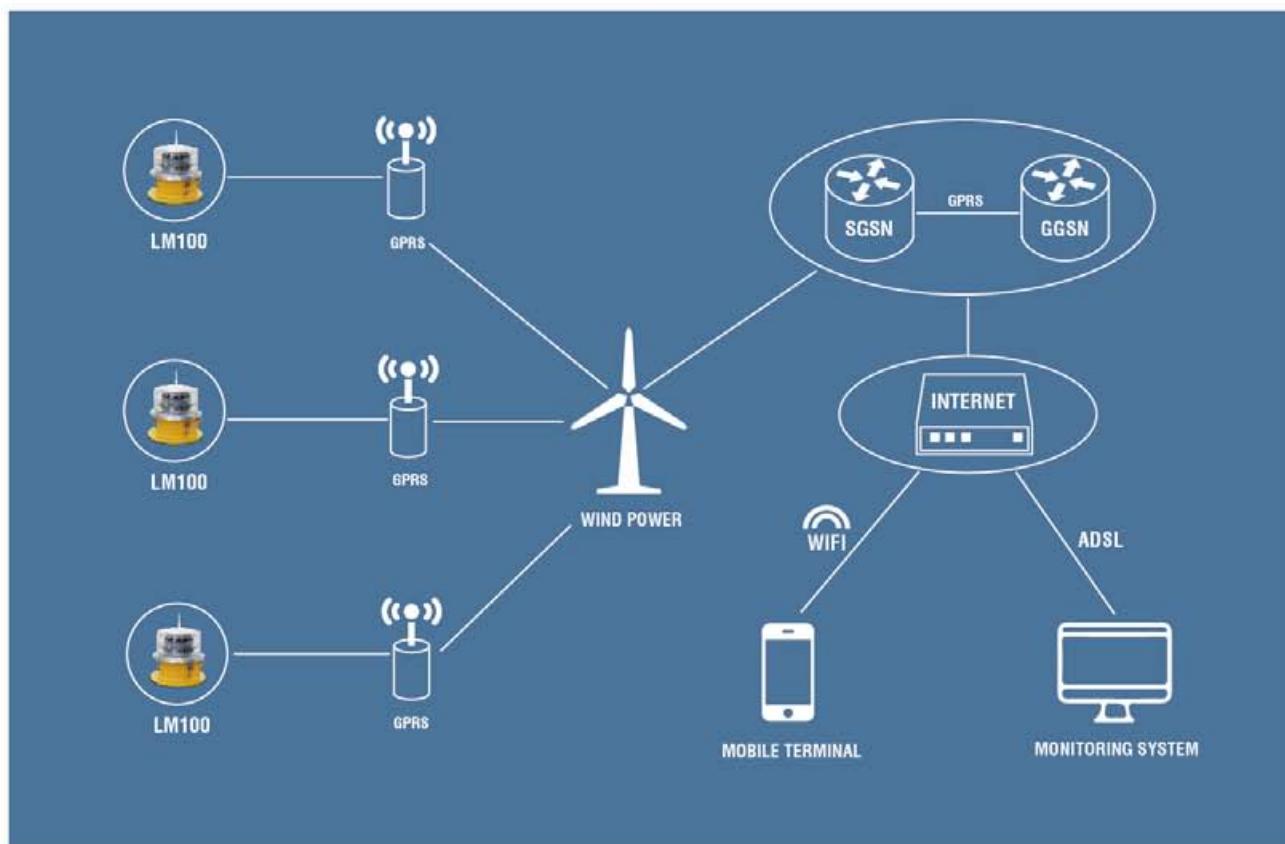
Main Functions & Features

- Control the aviation light flash, steady burning/ flash changeable, flash frequency adjustable.
- Built-in free maintenance battery. The battery starts to power on as long as the major power is of.
- The aviation light fault indicator function. Once a fault happens, the controller lightens the corresponding light and output the alarm signal
- Power fault alarm function, Major power supplier fails, output the alarm signal.
- Built-in automatic/manual switchover function, no photocell control function. Change to the manual control model through the switchover button.
- External connection to the photocell switch to reach the photocell automatic switchover function. The value of photocell switch can be adjusted.

Application

FR30 for the fault alarm output, ON/OFF and flash frequency control for aviation obstruction light also can be used to control street light.

Main specifications	
Operating voltage	AC200V~AC240V
Output voltage	AC200V~AC240V
Control circuit branch	4 channel (option)
Photocell on/off level	70~100Lux
Battery capacity	24V/12AH (option)
Max. Output power	600W
Control mode	Auto: Photocell auto control
	Manual: ON Light on; OFF Light off
Operating mode	Steady burning or flash 20/30/40/60FPM adjustable
Operating temperature	-40°C ~ +60°C
Humidity	10% ~ 95% (no coagulation)
IP code	IP65
Material	cold-rolled steel
Weight	41Kg



NANHUA aviation obstruction lights intelligent control system via GPRS signal or network signal can be realized on obstruction lights remote fault monitoring, status adjustment, data acquisition and so on.



www.7-mars.com. www.siamenergysaving.com

SIGNALS

Warning Alarm
Aviation Obstruction
Heli Landing

LIGHTING

High Bay, Low Bay, Flood Light
Linear Light, High Masts Light
Work light. Ex/Marine/Emergency

CONTROLS

Communication & Intercom
Control system
Monitoring and software

