



YOUYANG

YOUYANG AIRPORT LIGHTING EQUIPMENT INC.

PRODUCT CATALOG

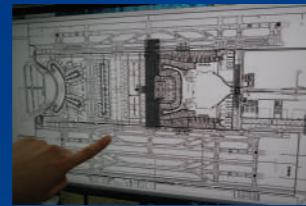


YOUYANG AIRPORT LIGHTING EQUIPMENT INC.

has features and benefits as total AFL solution provider clearly discriminated from other manufacturers as below.

Consulting

- AFL design & installation
- Flight inspection
- Maintenance



Design

- AFL & System
- Installation

Manufacturing

- Full lineup of AFL
- Power equipment
- ALCMS



Construction

- Conduiting & Cabling
- Electrical Works
- Installation of AFL
- Test & Commissioning

40 years of accumulated technology

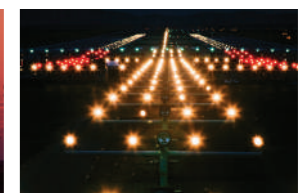
with reference of more than 500 airports in the world.



OUR REMARKABLE PROJECTS

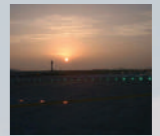
"More than 500 airports 60 countries with **YOUYANG**"

- Incheon International Airport, **Korea**
- Changi International Airport, **Singapore**
- New Ulaanbaatar International Airport, **Mongolia**
- Puerto Princesa International Airport, **Philippines**
- Denpasar International Airport, **Indonesia**
- Chennai International Airport, **India**
- Colombo International Airport, **Sri Lanka**
- Encarnacion International Airport, **Paraguay**
- Vinh International Airport, **Vietnam**
- Antalya International Airport, **Turkey**
- Aalborg International Airport, **Denmark**
- Sandefjord Airport, **Norway**
- Katrijk Wevelgem International Airport, **Belgium**
- Thessaloniki International Airport, **Greece**
- Baku Heydar Aliyev International Airport, **Azerbaijan**
- Tashkent International Airport, **Uzbekistan**
- Osh International Airport, **Kyrgyzstan**
- Port Sudan International Airport, **Sudan**
- Al-Menia Airport, **Egypt**
- Erbil International Airport, **Iraq**
- Al-Dawadmi Airport, **Saudi Arabia**
- Vancouver International Airport, **Canada**
- El-dorado International Airport, **Colombia**
- Rio Negro International Airport, **Colombia**



COMPANY HISTORY

- 1975 Established YOUYANG Electric Corp
- 1989 Altered the name of company to YOUYANG Airport Lighting Equipment Inc.
- 1995 Appointed as technical advisor of Airport Lighting by Korean Government .
- 1996 Appointed as Defense Industrial Venture by Korea Ministry of Defense
- 1998 ISO9001 Certified
- 1999 Contracted with Honeywell as major supplier of AFL products for Incheon Int'l Airport
- 2000 Obtained Industrial Standard by Korean Industrial Technology Association
- 2000 9 Items of light fitting listed in U.S FAA Circular
- 2003 Contracted with Egyptian Air Force for supply of AFL (1st~4th phase) in U\$10,000,000
- 2005 Certified by BV(Bureau Veritas) in compliance with ICAO & FAA for all AFL products
- 2005 Supplied AFL products for Incheon Int'l Airport in 2nd phase
- 2006 Contract awarded for supply of AFL for Kansai Int'l Airport, Japan
- 2007 Supplied AFL & systems for Elazig, Kars and Antalya Int'l Airport, Turkey
- 2008 Established YOUYANG India Pty Ltd.
- 2009 Signed MOU with KAC(Korea Airports Corporation) for joint-development of LED AFL & Power equipment
- 2010 ISO14001 Certified
Certified LED Taxiway Edge Light & Isolating Transformer as excellent product by PPS(Public Procurement Service), Korea
Contracted with UNAMID(United Nations Hybrid Operation in Darfur) for enhancement of AFL for El-Fasher, Nyla and El-Geneina airport, Sudan in U\$16,000,000
- 2011 Certified as Excellent enterprise by Anyang-City, Korea
- 2012 Contract awarded for supply of AFL & systems for 9 airports in Equador
Contract awarded for supply of AFL & systems for Malvinas airport, Peru
- 2013 Appointed as PQ Company of Overseas Procurement Market by PPS (Public Procurement Service), Korea
Supplied & commissioned ILCMS for Sacheon airport, Korea
Contract awarded for provision & installation of AFL for New Ulaanbaatar int'l airport, Mongolia
- 2014 Supplied LED SFL system & ILCMS to Kangreung airport, Korea
- 2015 ALCMS L-890D listed in FAA Circular advisory
- 2016 Awarded contract of AFL & system for 6 airports in Egypt
- 2017 Spanish PPT(AENA) certified by Bureau Veritas





FEATURES & BENEFITS OF LED AIRFIELD LIGHTING

LED Airfield lights manufactured by YOUYANG Airport Lighting Equipment Inc have features and benefits technically distinguished from halogen light fittings in the following aspects.

Lower power consumption

Very low power rating for LED light contributes to lower life cycle costs, resulting in lower power consumption by 60~70% compared to the halogen light, which reduces power capacity of CCRs and isolating transformers in the existing runway circuits.

Longer life time

The average life time of LED is 50,000 hours at highest intensity setting and more than 50,000 hours in operation, reducing cost of maintenance.

Stable luminous intensity

Designed to FAA Engineering Brief 67, YOUYANG LED lights will be operative with equal level of luminous intensity at different brightness step control of CCR, compared to halogen lights.

Compatible with the existing mount base

YOUYANG LED lights are compatible with the existing mount bases of halogen light and isolating transformers which enables easy installation with no additional replacement works.

Safety

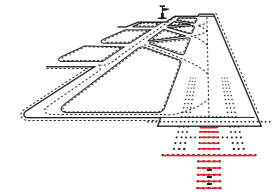
In compliance with FAA Engineering Brief 67, YOUYANG LED lights are designed to have surge protection for the internal circuit so as to safely protect LED lamp in the event of surge.

EHA-L LED

ALS : APPROACH LIGHT
RTHL : RUNWAY THRESHOLD LIGHT
RENL : RUNWAY END LIGHT
WBAR : RUNWAY WING BAR LIGHT



ELEVATED UNIDIRECTIONAL HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.4/10/11
IEC : 61827
FAA : AC 150 / 5345-46, L-861E, L-862SE, L-862E,S
AENA : PPT 015
KS : KS W 5031(Korean Standard)

SPECIFICATIONS

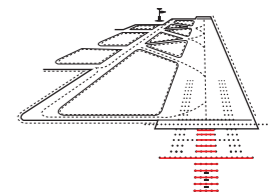
- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 46
- Minimum Average Intensity : 20,000 cd(W) / 10,000 cd(G) / 2,500 cd(R)
- Color : White, Green, Red

IHE-L LED

ALS1: APPROACH CENTERLINE LIGHT /
CROSSBARS LIGHT



INSET HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.4.
IEC : 61827
AENA : PPT 010
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

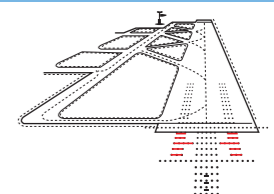
- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 12mm
- Minimum Average Intensity : 20,000 cd
- Color : White

IHE-L LED

ALS2 : APPROACH SIDE ROW BARRETTES LIGHT



INSET HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.4.
IEC : 61827
AENA : PPT 010
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 12mm
- Minimum Average Intensity : 5,000 cd
- Color : Red

IHF-L LED

RTHL : RUNWAY THRESHOLD LIGHT
WBAR : WING BAR LIGHT



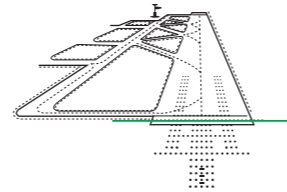
INSET HIGH INTENSITY LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.10
IEC : 61827
FAA : AC 150 / 5345-46, L-850D,E
AENA : PPT 010, PPT 011
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 10,000 cd
- Color : Green



EHB-L LED

REDL : RUNWAY EDGE LIGHT



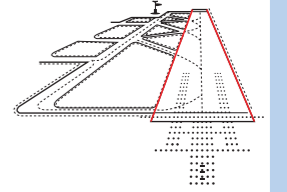
ELEVATED BIDIRECTIONAL HIGH INTENSITY LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.9
IEC : 61827
FAA : AC 150 / 5345-46, L-862
AENA : PPT 016
KS : KS W 5021(Korean Standard)

SPECIFICATIONS

- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 46
- Minimum Average Intensity : 10,000 cd(W) / 4,000 cd(Y)
- Color : White / White, White / Yellow



IHF-L LED

RENL : RUNWAY END LIGHT



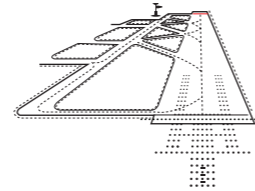
INSET HIGH INTENSITY LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.11
IEC : 61827
FAA : AC 150 / 5345-46, L-850D,E
AENA : PPT 010, PPT 011
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 2,500 cd
- Color : Red



IHF-L LED

REDL : RUNWAY EDGE LIGHT



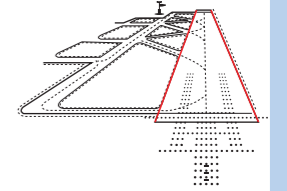
INSET HIGH INTENSITY LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.9
IEC : 61827
FAA : AC 150 / 5345-46, L-850C, D
AENA : PPT 010, PPT 011
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 10,000 cd(W) / 4,000 cd(Y)
- Color : White / White, White / Yellow



IHF-L LED

RTHL & RENL : RUNWAY THRESHOLD
RUNWAY END LIGHT



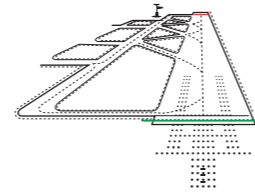
INSET HIGH INTENSITY LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.10 / 11
IEC : 61827
FAA : AC 150 / 5345-46, L-850D
AENA : PPT 010, PPT 011
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 10,000 cd(G) / 2,500 cd(R)
- Color : Green, Red



IHH-L LED 6mm

RCLL : RUNWAY CENTERLINE LIGHT



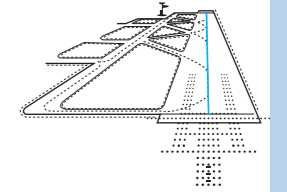
INSET HIGH INTENSITY LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.12
IEC : 61827
FAA : AC 150 / 5345-46, L-850A
AENA : PPT 012, PPT 013
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 6 mm
- Minimum Average Intensity : 5,000 cd(W) / 750 cd(R)
- Color : White / White, White / Red

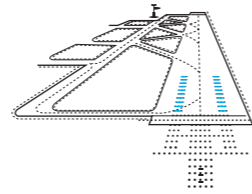


IHI-L^{LED} 6mm

RTZL : RUNWAY TOUCHDOWN ZONE LIGHT



INSET HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.13
IEC : 61827
FAA : AC 150 / 5345-46, L-850B
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

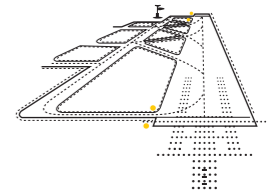
- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 6 mm
- Minimum Average Intensity : 5,000 cd
- Color : White

RGL-L^{LED}

RUNWAY GUARD LIGHT



RUNWAY GUARD LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.22
FAA : AC 150 / 5345-46, L-804

SPECIFICATIONS

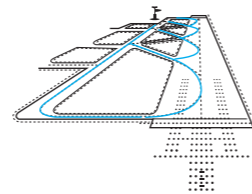
- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 46
- Minimum Average Intensity : 300 cd
- Color : Yellow(Flash)

IMB-L^{LED} 6mm

TCLL-S : TAXIWAY CENTERLINE LIGHT
STRAIGHT SECTION
TCLL-C : TAXIWAY CENTERLINE LIGHT
CURVED SECTION



INSET MEDIUM INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.16 / 9
IEC : 61827
FAA : AC 150 / 5345-46, L-852 C/D/S
AENA : PPT 018
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

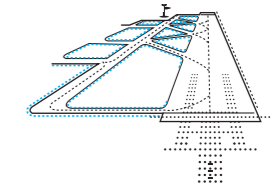
- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 6 mm
- Minimum Average Intensity : S - 200 cd, C - 100 cd
- Color : Green / Green, Green / Yellow

ELB-L^{LED}

TEDL : TAXIWAY EDGE LIGHT



ELEVATED OMNIDIRECTIONAL LOW INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.17
IEC : 61827
FAA : AC 150 / 5345-46, L-861T
AENA : PPT 017
KS : KS W 5021(Korean Standard)

SPECIFICATIONS

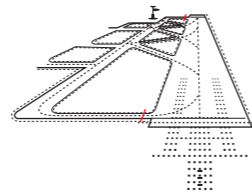
- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 46
- Minimum Average Intensity : 2 cd
- Color : Blue

IMG-L^{LED} 6mm

STBL : STOP BAR LIGHT



INSET MEDIUM INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.19/20
IEC : 61827
FAA : AC 150 / 5345-46, L-852 S
AENA : PPT 018
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

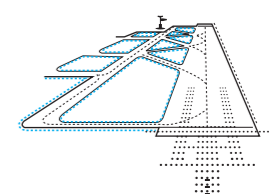
- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 6 mm
- Minimum Average Intensity : 200 cd
- Color : Red

ILD-L^{LED} 6mm

TEDL : TAXIWAY EDGE LIGHT



INSET OMNIDIRECTIONAL LOW INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.16
IEC : 61827
FAA : AC 150 / 5345-46, L-852T
AENA : PPT 018
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

- Input Power : 2.8 A ~ 6.6 A
- Life Time of LED : 50,000 hrs
- Protection Class : IP 68
- Protrusion Height : 6 mm
- Minimum Average Intensity : 2 cd
- Color : Blue

TGS-L LED

TAXIWAY GUIDANCE SIGN



TAXIWAY GUIDANCE SIGN

COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.4
 FAA : AC 150 / 5345-44
 AENA : PPT 022

SPECIFICATIONS

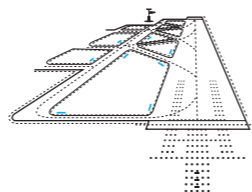
- Input power : 2.8 ~ 6.6A
- Life Time of LED : 50,000 hrs
- Protection class : IP 46

▶ Sign Luminance

| Condition | Average Luminance (cd/m ²) | | |
|------------------------------|--|--------|-------|
| | Red | Yellow | White |
| Visual Range: More than 800m | 30 | 150 | 300 |
| Non Instrument Runway | 10 | 50 | 100 |

▶ Sign Color

| Section | Color | |
|-----------------------|-------------|-------------|
| | Back Ground | Inscription |
| Mandatory Instruction | Red | White |
| Location | Black | Yellow |
| Information | Yellow | Black |



RDML-L LED

RDML : RUNWAY DISTANCE MARKER LIGHT



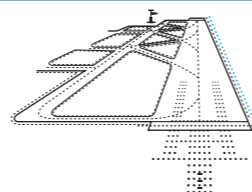
RUNWAY DISTANCE MARKER LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.4
 FAA : AC 150 / 5345-44, L-858B

SPECIFICATIONS

- Input power : 2.8~6.6A
- Life Time of LED : 50,000 hrs
- Protection class : IP46
- Minimum Luminance : 100~335cd/m² (29~98FL)
- Color : White



SFL-3 LED

SFL3 : LED SEQUENCE FLASH LIGHT
 RTL3 : LED RUNWAY THRESHOLD INDICATION LIGHT



LED SEQUENCE FLASH LIGHT

COMPLIANCE WITH STANDARDS

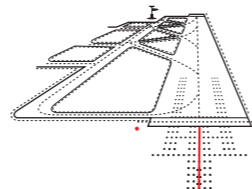
ICAO : Annex14 Para 5.3.4
 FAA : AC 150 / 5345-51, L-849
 KS : KS W 5041 (Korean Standard)

SYSTEM COMPOSITION

- Flash Light
- Power Supply
- Junction Box
- Master Timer : controlled up to 32 flash lights

SPECIFICATIONS

- Life Time of LED : 50,000 hrs
- Effective Intensity : 15,000 cd
- Color : White(Flash)



EHA

ALS : APPROACH LIGHT
 RTHL : RUNWAY THRESHOLD LIGHT
 RENL : RUNWAY END LIGHT
 WBAR : RUNWAY WING BAR LIGHT
 STBL : STOP BAR LIGHT



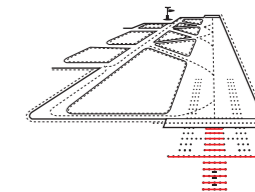
ELEVATED UNIDIRECTIONAL HIGH INTENSITY LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.4 / 10 / 11
 IEC : 61827
 FAA : AC 150 / 5345-46, E-982, L-862E, L-862S
 AENA : PPT 015
 KS : KS W 5031 (Korean Standard)

SPECIFICATIONS

- Power Consumption : 200W x 1 / 150W x 1 (PK30D)
- Life Time of Lamp : 1000 hrs
- Protection Class : IP 46
- Minimum Average Intensity : 20,000 cd(W) / 10,000 cd(G) / 5,000 cd(R)
- Color : White, Green, Red



IHE

ALS1 : APPROACH CENTERLINE LIGHT /
 CROSSBARS LIGHT



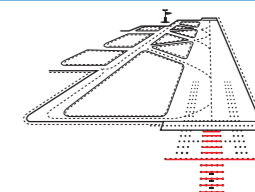
INSET HIGH INTENSITY LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.4.
 IEC : 61827
 AENA : PPT 010
 KS : KS W 5011 (Korean Standard)

SPECIFICATIONS

- Power Consumption : 105W x 3 (MR-16)
- Life Time of Lamp : 1000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 20,000 cd
- Color : White



IHE

ALS2 : APPROACH SIDE ROW BARRETTES LIGHT



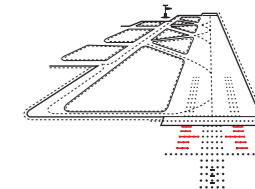
INSET HIGH INTENSITY LIGHT

COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.4.
 IEC : 61827
 AENA : PPT 010
 KS : KS W 5011 (Korean Standard)

SPECIFICATIONS

- Power Consumption : 105W x 3 (MR-16)
- Life Time of Lamp : 1000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 5,000 cd
- Color : Red

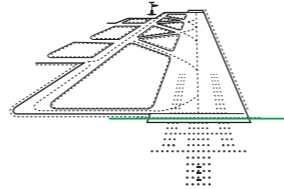


IHF

RTHL : RUNWAY THRESHOLD LIGHT
WBAR : WING BAR LIGHT



INSET HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.10
IEC : 61827
FAA : AC 150 / 5345-46, L-850D, E
AENA : PPT 010, PPT 011
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

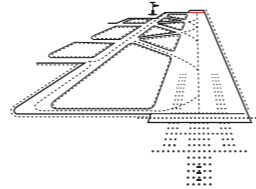
- Power Consumption : 105W x 2(MR-16)
- Life Time of Lamp : 1000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 10,000 cd
- Color : Green

IHF

RENL : RUNWAY END LIGHT



INSET HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.11
IEC : 61827
FAA : AC 150 / 5345-46, L-850D, E
AENA : PPT 010, PPT 011
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

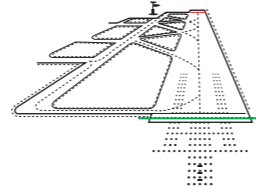
- Power Consumption : 105W x 1(MR-16)
- Life Time of Lamp : 1000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 2,500 cd
- Color : Red

IHF

RTHL / RENL: RUNWAY THRESHOLD & END LIGHT



INSET HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.10/11
IEC : 61827
FAA : AC 150 / 5345-46, L-850D
AENA : PPT 010, PPT 011
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

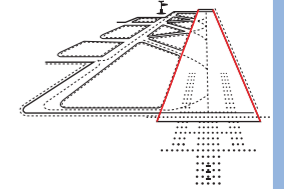
- Power Consumption : 105W x 3(MR-16)
- Life Time of Lamp : 1000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 10,000 cd(G) / 2,500 cd(R)
- Color : Green / Red

IHF

REDL: RUNWAY EDGE LIGHT



INSET HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para.5.3.9
IEC : 61827
FAA : AC 150 / 5345-46, L-850C, D
AENA : PPT 010, PPT 011
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

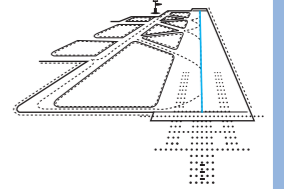
- Power Consumption : 105W x 2(MR-16)
- Life Time of Lamp : 1000 hrs
- Protection Class : IP 68
- Protrusion Height : 12 mm
- Minimum Average Intensity : 10,000 cd(W) / 4,000 cd(Y)
- Color : White / White, White / Yellow

IHG_{6mm}

IHG-RCLL : RUNWAY CENTERLINE LIGHT



INSET HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.12 / 5.3.19 / 20
IEC : 61827
FAA : AC 150 / 5345-46, L-850A, L-852S
AENA : PPT 013
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

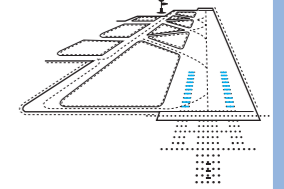
- Power Consumption : 48W x 2(MR-16)
- Life Time of Lamp : 1500 hrs
- Protection Class : IP 68
- Protrusion Height : 6 mm
- Minimum Average Intensity : 5,000 cd(W) / 750 cd(R)
- Color : White / White, White / Red

IHD_{6mm}

IHD-RTZL : RUNWAY TOUCHDOWN ZONE LIGHT



INSET UNIDIRECTIONAL HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.13 / 5.3.22 / 19 / 20
IEC : 61827
FAA : AC 150 / 5345-46, L-850B, L-852S, L-852G
AENA : PPT 012
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

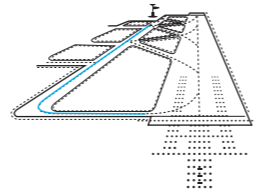
- Power Consumption : 48W x 1(MR-16)
- Life time of Light : 1500 hrs
- Protection class : IP 68
- Protrusion Height : 6 mm
- Minimum Average Intensity : 5,000 cd
- Color : White

IMB_{6mm}

TCLL-S : TAXIWAY CENTERLINE LIGHT
(STRAIGHT SECTION)



INSET MEDIUM INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.16
IEC : 61827
FAA : AC 150 / 5345-46, L-852C
AENA : PPT 018
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

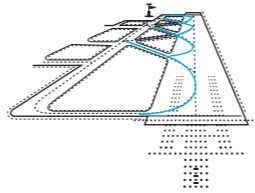
- Power Consumption : 40W x 2(MR-11)
- Life Time of Lamp : 1500hrs
- Protection Class : IP 68
- Protrusion Height : 6mm
- Minimum Average Intensity : 200 cd(G,Y)
- Color : Green / Green, Green / Yellow

IMB_{6mm}

TCLL-C : TAXIWAY CENTERLINE LIGHT
(CURVED SECTION)



INSET MEDIUM INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.16
IEC : 61827
FAA : AC 150 / 5345-46, L-852K
AENA : PPT 018
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

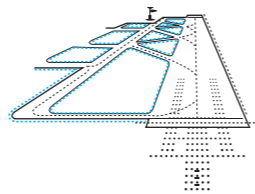
- Power Consumption : 40W x 2(MR-11)
- Life Time of Lamp : 1500 hrs
- Protection Class : IP 68
- Protrusion Height : 6mm
- Minimum Average Intensity : 100 cd(G,Y)
- Color : Green / Green, Green / Yellow

ILC_{6mm}

TEDL : TAXIWAY EDGE LIGHT



INSET OMNIDIRECTIONAL LOW INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.16
IEC : 61827
FAA : AC 150 / 5345-46, L-852T
AENA : PPT 018
KS : KS W 5011(Korean Standard)

SPECIFICATIONS

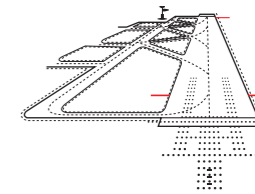
- Power Consumption : 40W x 1(MR-11)
- Life Time of Lamp : 1,000 hrs
- Protection Class : IP 68
- Protrusion Height : 6 mm
- Minimum Intensity : 2 cd
- Color : Blue

PAPI 400

PRECISION APPROACH PATH INDICATOR



PRECISION APPROACH PATH INDICATOR



COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para 5.3.5
FAA : AC 150 / 5345-28, L-880
KS : KS W 5051(Korean Standard)

SPECIFICATIONS

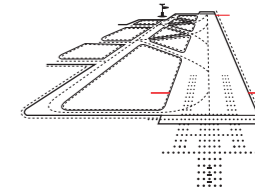
- Power Consumption : 200W x 2(PK30D)
- Life Time of Lamp : 1,000 hrs
- Minimum Average Intensity : 15,000 cd(R) / 30,000 cd(W)
- Color : Red, White

PAPI 600

PRECISION APPROACH PATH INDICATOR



PRECISION APPROACH PATH INDICATOR



COMPLIANCE WITH STANDARDS

ICAO : Annex 14 Para 5.3.5
FAA : AC 150 / 5345-28, L-880
KS : KS W 5051(Korean Standard)

SPECIFICATIONS

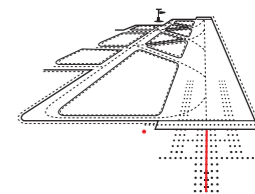
- Power Consumption : 200W x 3(PK30D)
- Life Time of Lamp : 1,000 hrs
- Minimum Average Intensity : 15,000 cd(R) / 30,000 cd(W)
- Color : Red, White

SFL1

SFL1 : XENON SEQUENCE FLASH LIGHT
RTL1 : RUNWAY THRESHOLD INDICATION LIGHT



SEQUENCE FLASH LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.4
FAA : AC 150 / 5345-51, L-849
KS : KS W 5041(Korean Standard)

SYSTEM COMPOSITION

- Flash Light
- Power Supply
- Junction Box
- Master Timer : controlled up to 32 flash lights

SPECIFICATIONS

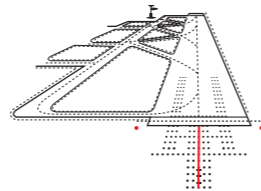
- Power Consumption : 60 J
- Life Time of Lamp : 1,000 hrs
- Effective Intensity : 15,000 cd
- Color : White(Flash)

SFL2

SFL2 : XENON SEQUENCE FLASH LIGHT (PLC TYPE)
 RTIL2 : RUNWAY THRESHOLD INDICATION LIGHT



SEQUENCE FLASH LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.4
 FAA : AC 150 / 5345-51, L-849
 K S : KS W 5041(Korean Standard)

SYSTEM COMPOSITION

- Flash Light
- Power Supply
- Junction Box
- Master Timer : controlled up to 32 flash lights

SPECIFICATIONS

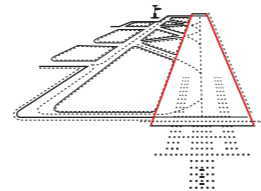
- Power Consumption : 42 J
- Life Time of Lamp : 1,000 hrs
- Effective Intensity : 15,000 cd
- Color : White(Flash)

EHB

REDL : RUNWAY EDGE LIGHT



ELEVATED BIDIRECTIONAL HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.9
 IEC : 61827
 FAA : AC 150 / 5345-46, L-862
 AENA : PPT 016
 K S : KS W 5021(Korean Standard)

SPECIFICATIONS

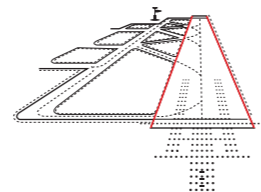
- Power Consumption : 200W x 1 / 150W x 1(GY-9.5)
- Life Time of Lamp : 1000 hrs
- Protection class : IP 46
- Minimum Average Intensity : 10,000 cd(W) / 4,000 cd(Y)
- Color : White / White, White / Yellow

EHC

REDL : RUNWAY EDGE LIGHT



ELEVATED BIDIRECTIONAL HIGH INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.9
 IEC : 61827
 FAA : AC 150 / 5345-46, L-862
 AENA : PPT 016
 K S : KS W 5021(Korean Standard)

SPECIFICATIONS

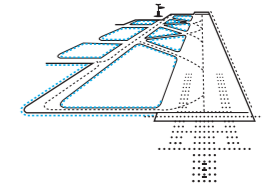
- Power Consumption : 150W x 1 / 100W x 1(PK30D)
- Life Time of Lamp : 1000 hrs
- Protection class : IP 46
- Minimum Average Intensity : 10,000 cd(W) / 4,000 cd(Y)
- Color : White / White, White / Yellow

ELA

TEDL : TAXIWAY EDGE LIGHT



ELEVATED OMNIDIRECTIONAL LOW INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.9
 IEC : 61827
 FAA : AC 150 / 5345-46, L-862
 AENA : PPT 017
 K S : KS W 5021(Korean Standard)

SPECIFICATIONS

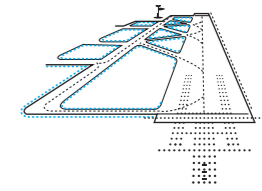
- Power Consumption : 45W x 1(GY-9.5)
- Life Time of Lamp : 1000 hrs
- Protection class : IP 46
- Minimum Average Intensity : 2 cd
- Color : Blue

ELD

TEDL : TAXIWAY EDGE LIGHT



ELEVATED OMNIDIRECTIONAL LOW INTENSITY LIGHT



COMPLIANCE WITH STANDARDS

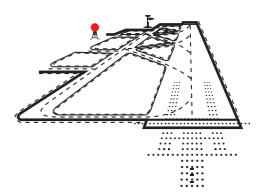
ICAO : Annex 14 Para 5.3.16
 IEC : 61827
 FAA : AC 150 / 5345-46, L-861, L-861T
 AENA : PPT 017
 K S : KS W 5021(Korean Standard)

SPECIFICATIONS

- Power Consumption : 45W x 1(GY-9.5)
- Life Time of Lamp : 1000 hrs
- Protection class : IP 46
- Minimum Average Intensity: 2 cd
- Color : Blue

BEACON

BEACON : AIRPORT BEACON



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.3.3
 FAA : AC 150 / 5345-12, L-802A
 K S : KS W 5061(Korean Standard)

SPECIFICATIONS

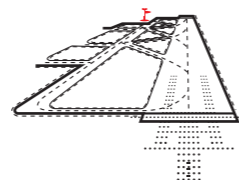
- Power Consumption : 1000W x 4(PAR64)
- Protection Class : IP46
- Minimum Effective Intensity : 11,250 cd(G) / 75,000 cd(W)
- Color : Green, White

WD

WIND CONE1 : AIRPORT WIND CONE



WIND CONE



COMPLIANCE WITH STANDARDS

ICAO : Annex14 Para 5.1. 1
FAA : AC 150 / 5345-27
KS : KS W 5071(Korean Standard)

SPECIFICATIONS

- Power Consumption : 700W
- Input Voltage : Single Phase 220V / 240V 50 / 60Hz
(120V upon request)
- Lamps : Flood Light (150W x 4)
Obstruction Light (100W x 1)
- Wind Sack : ø 900 x 3750

CCR1

ANALOG TYPE CONSTANT CURRENT REGULATOR



CONSTANT CURRENT REGULATOR

COMPLIANCE WITH STANDARDS

ICAO : Aerodrome Design Manual Part 5
IEC : 61822
FAA : AC 150/5345-10, L-828
AENA : PPT 002
KS : KS W 5091(Korean Standard)

SPECIFICATIONS

- Input Voltage : Single Phase 220V or 380V 50 / 60Hz
(Other voltages upon request)
- Type : Thyristor Phase Control
- Ratings : 4, 5, 7.5, 10, 15, 20, 25, 30 KW
- Output Current : 6.6A max(20 Amp upon request)
- Accuracy : Within +1.5%, -3% 5 step
- Remote Control : 24VDC, 48VDC

CCR2

MICROPROCESSOR CONSTANT CURRENT REGULATOR



CONSTANT CURRENT REGULATOR

COMPLIANCE WITH STANDARDS

ICAO : Aerodrome Design Manual Part 5
IEC : 61822
FAA : AC 150 / 5345-10, L-829
AENA : PPT 002
KS : KS W 5091(Korean Standard)

SPECIFICATIONS

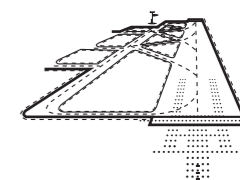
- Input Voltage : Single Phase 208V, 220V or 380V 50 / 60 Hz
(Other voltages upon request)
- Type : Thyristor Phase Control
- Ratings : 4, 5, 7.5, 10, 15, 20, 25, 30 KW
- Output Current : 6.6A max(20 Amp upon request) 1, 3, 5 or 7 step
- Accuracy : All step - Within ±1%
- Protection : Over current protection $I_2 = 6.85A < 4 \text{ sec} / I_2 = 6.93A < 2 \text{ sec}$
 $I_2 = 7.10A < 1 \text{ sec} / I_2 = 8.30A < 0.3 \text{ sec}$
Open circuit protection $I_2 = 1.50A < 1 \text{ sec}$

IT

IT1 : ISOLATING TRANSFORMER(Without Earth)
IT2 : ISOLATING TRANSFORMER(With Earth)
IT3 : ISOLATING TRANSFORMER(Low Inductance Type)



ISOLATING TRANSFORMER



COMPLIANCE WITH STANDARDS

IEC : 61823
FAA : AC 150/5345-47, L-830
AENA : PPT 006
KS : KS W 5111(Korean Standard)

FEATURES

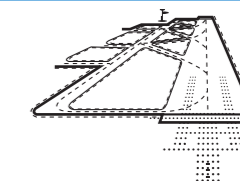
- Encapsulated in thermoplastic rubber(TPE)
- Resistant to oil, kerosene, aircraft fuel, acids and alkalis and other chemicals present on airfields
- Primary cable 600mm long, cross section 8 mm² Thermoplastic rubber(TPE) insulation and jacket
- Secondary cable 1200 mm long, cross section 2 wires of 3.5 mm² thermoplastic rubber insulation and jacket
- Primary Plug and Receptacle FAA L-823, Style 2
Primary plug and Receptacle FAA L-823, Style2, Style 9
- Secondary Receptacle FAA L-823, Style 7

CK

CK1 : PRIMARY CONNECTOR KIT
CK2 : SECONDARY CONNECTOR KIT



CONNECTOR KIT



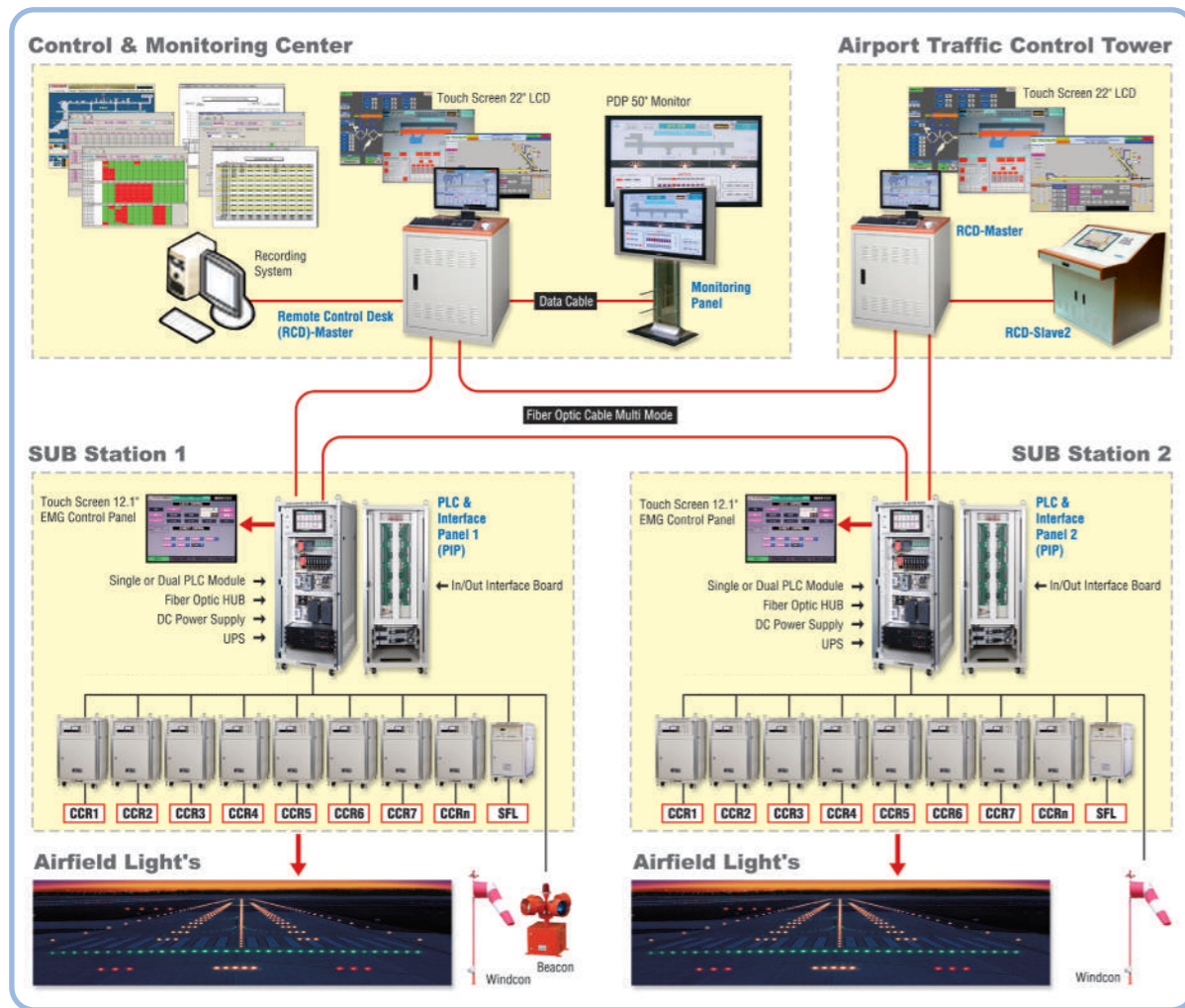
COMPLIANCE WITH STANDARDS

IEC : 61823
FAA : AC 150/5345-26, L-823
AENA : PPT 003, PPT 004

FEATURES

- Encapsulated in thermoplastic rubber(TPE)
- Resistant to oil, kerosene, aircraft fuel, acids and alkalis and other chemicals present on airfields
- Primary Connector kit FAA L-823, Style 3 & 10
- Secondary Connector kit FAA L-823, Style 4 & 11(1Core Cable), Style 5 & 12(2Core Cable)

ALCMS (Airport Lighting Control & Monitoring System)



In compliance with

ICAO Annex 14, Volume I, (Aerodrome) current edition
 FAA AC150/5345-56 : Specification for L-890 Airport Lighting Control and Monitoring System (ALCMS) Advisory Circular

YOUYANG ALCMS is designed to provide users with control and monitoring function of airfield lights at Runway, Approach, PAPI, Taxiway, apron and other airfields according to RVR(Runway Visual Range) and landing direction. The operation of ALCMS can be individually by circuit and simultaneously carried out by ICAO compliant preset table that is pre-set by the condition of airports considering daily time frame, RVR(runway Visual Range) and category of the airport. YOUYANG ALCMS is equipped with micro-processed interface modules that can be customizable for communication, command, monitoring, input/output and fail-safe function.

Our ALCMS has features and benefits in the following aspects :

- 1) Available for monitoring real-time and historical operation status
- 2) Easy touch screen control
- 3) Comprehensive and multi-functional integrated solution to meet various range of airfield control and monitoring requirements
- 4) Fail-safe mode available to ensure that control and monitoring of CCRs will not be suffering in the event that the main ATCT(Air Traffic Control Tower) workstation fails.
- 5) Integrate with other airport systems such as A-SMGCS.
- 6) Simple and easy view of actual AFL operation, maintenance and alarm status of ALCMS and airfield lights.
- 7) Easy maintenance available by keeping track with record of malfunction, type & nature of the problem, location of malfunction occurred, etc.

ATCT & Remote Control Desk



Installation

Airport Traffic Control Tower

Functions

- Logic control & monitor
- Circuit group control & monitor
- Step control & monitor
- Monitoring of Mini Runway graphic display
- Individual CCR manual control
- Individual CCR Monitoring
- Preset of control step
- On-off & Error monitoring
- All event recording data base

Component

- Industrial computer
- 22"± LCD Touch screen Monitor(Optional)
- UPS
- Network Hub
- Surge protector
- Circuit breaker

Substation & PLC Interface Panel



PLC Module



UPS

Installation

Maintenance Room or monitoring center

Functions

- Emergency control & monitor
- Logic control & monitoring
- Individual CCR Control & Monitoring
- PLC main control Program
- Communication program
- Data gathering & transaction
- Data interface

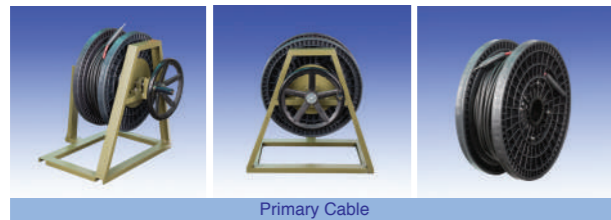
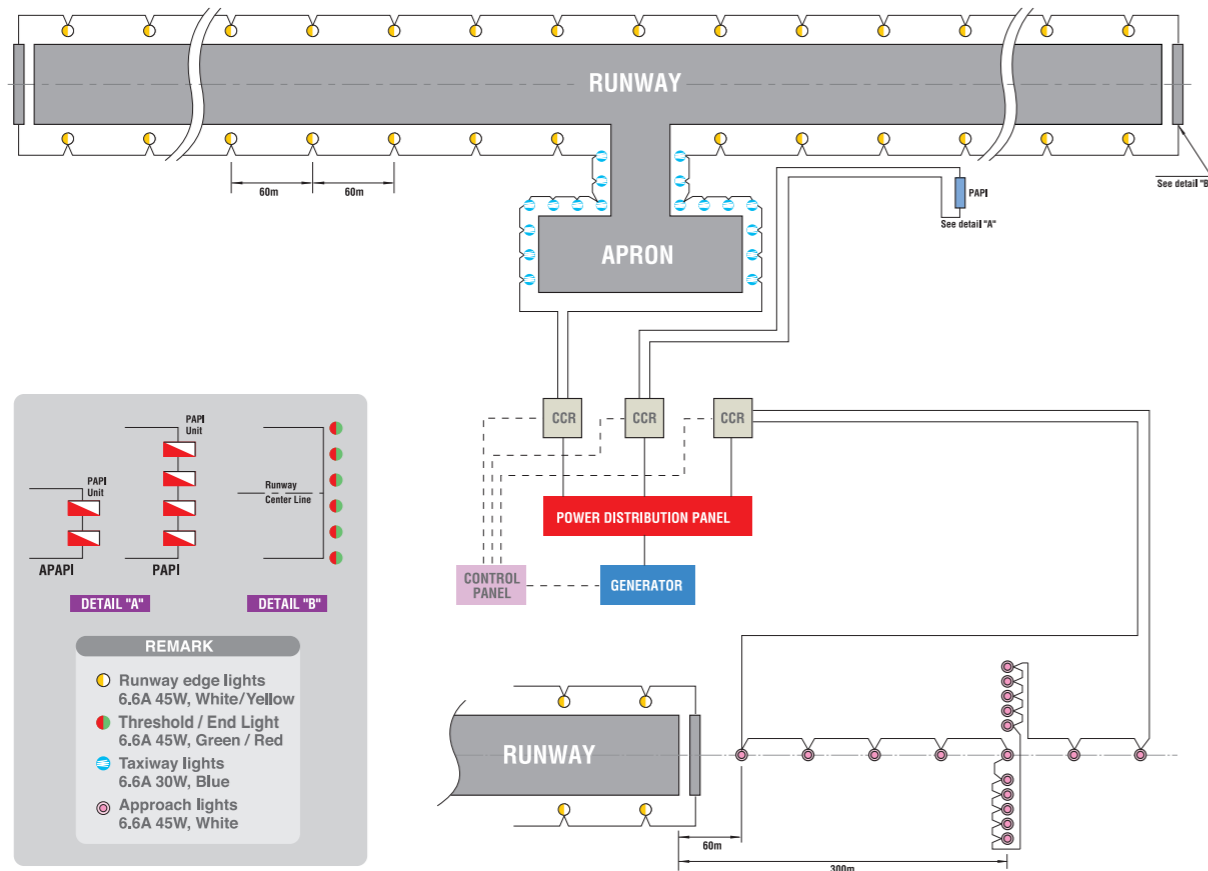
Component

- PLC CPU
- PLC I/O Module
- Emergency control panel
- Network HUB
- Power supply
- UPS
- Surge arrester
- Circuit breaker
- Interface board
- Terminal blocks

Portable Lighting System (CCR Power Type)



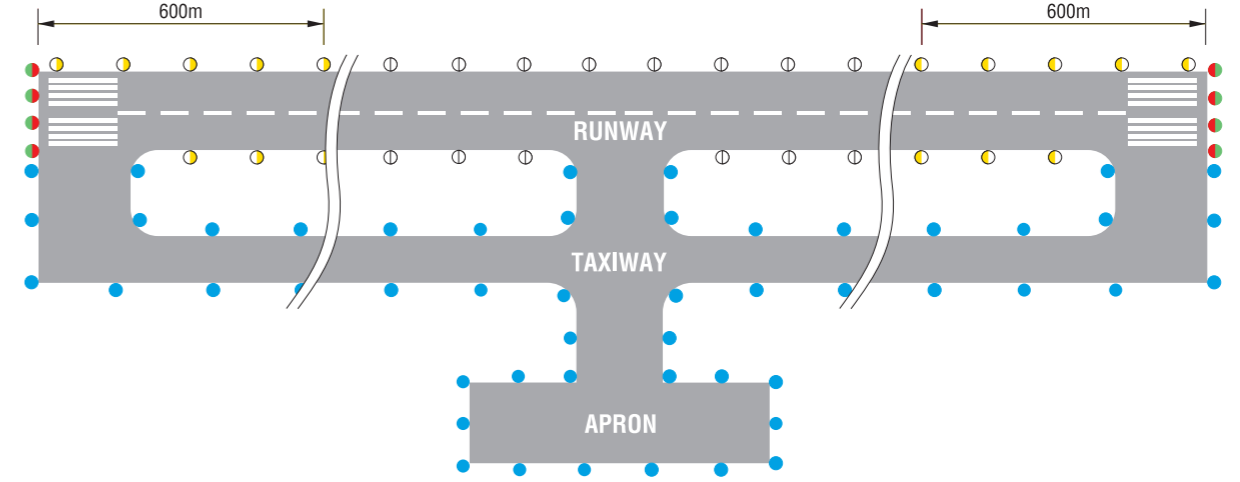
Installation Layout



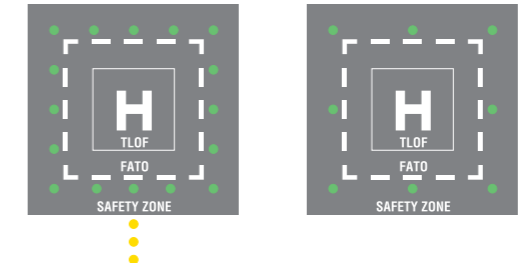
Portable Lighting System (Battery Power Type)



Airfield Lighting System



Heliport Lighting System



Trailer



Trailer is produced as per customer's requirements and also decided by quantity of Portable lights and wheel load quantity of trailer. Standard Trailer has a consent for commercial power supply and a Solar consent also can be supplied by customer's requirements.

PLS

PLS

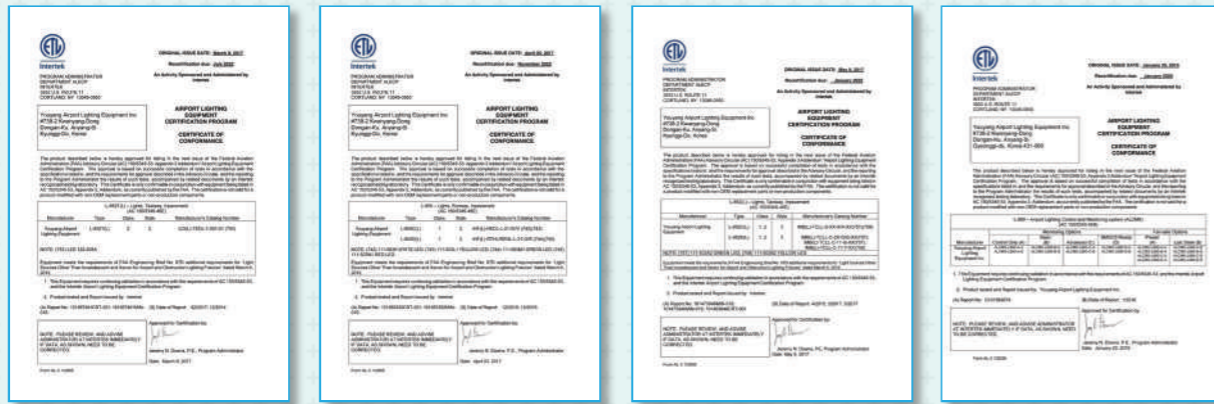
ICAO CERTIFICATE

MAK CERTIFICATE



FAA CERTIFICATE

AENA CERTIFICATE



YOOYAYZG

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