ILCS®

Intelligent Light Control System

Transforming Human Lives through Smart Lighting

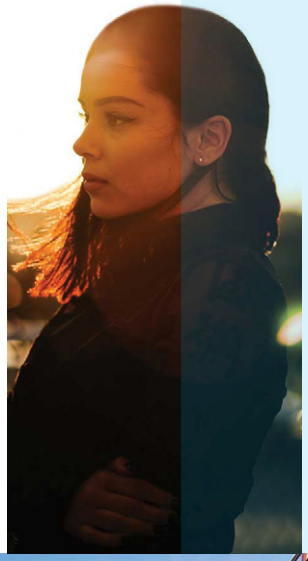
TRIMAX

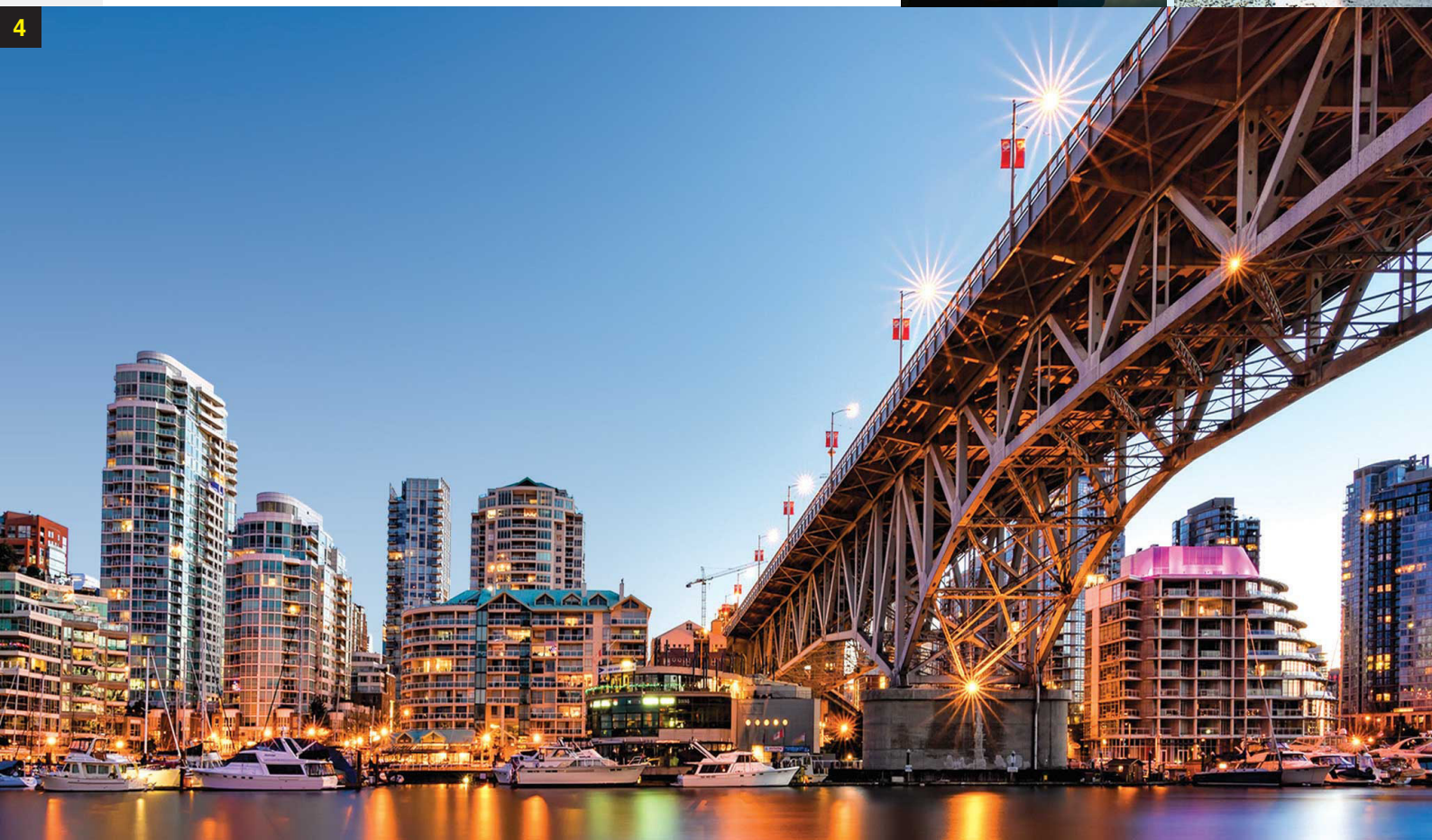
LED SMART LIGHT

iLCS®
Intelligent Light Control System

SMART CITIES: EFFECTIVE CITY PLANNING & MANAGEMENT

A smart city relies on smart technology and require transformation the way municipalities manage its assets and resources. Smart street lights with energy efficiency can deliver enormous savings on total energy costs. It gives flexibility for municipalites to manage data, obtain useful informations and control luminaires remotely. The operators can optimize their maintenance schedule to monitor street lights individually or in groups by streets or blocks from a computer or smartphone. Additionally, city planners are able to configure and schedule lights at a specific timeframe by dimming, on or off. iLCS makes it easy to control and automate your lights from anywhere and anytime.



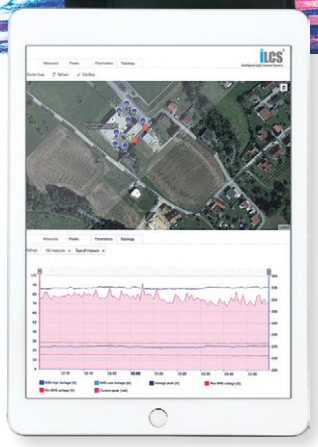


SOCIAL, ENVIRONMENTAL & ECONOMIC, SYSTEM BENEFITS

A TELECOMMUNICATION HUB

With the connect solution, we could achieve in combining unlimited technologies in the modular approach. An unlimited range of possible applications can be incorporated such as public WiFi, telecommunication network coverage, audio announcement, fire and rescue siren alarms, environmental data, occupancy detection, etc. This will build a profound smart and safer city with an ideal infrastructure of Internet of Things (IoT).

1. Enhance Safety & Security
2. Traffic Flow Management
3. Safeguard Assets & Properties
4. Energy Efficiency
5. Surveillance Demand
6. Protect People & Privacy



iLCS
built-in remote control management system

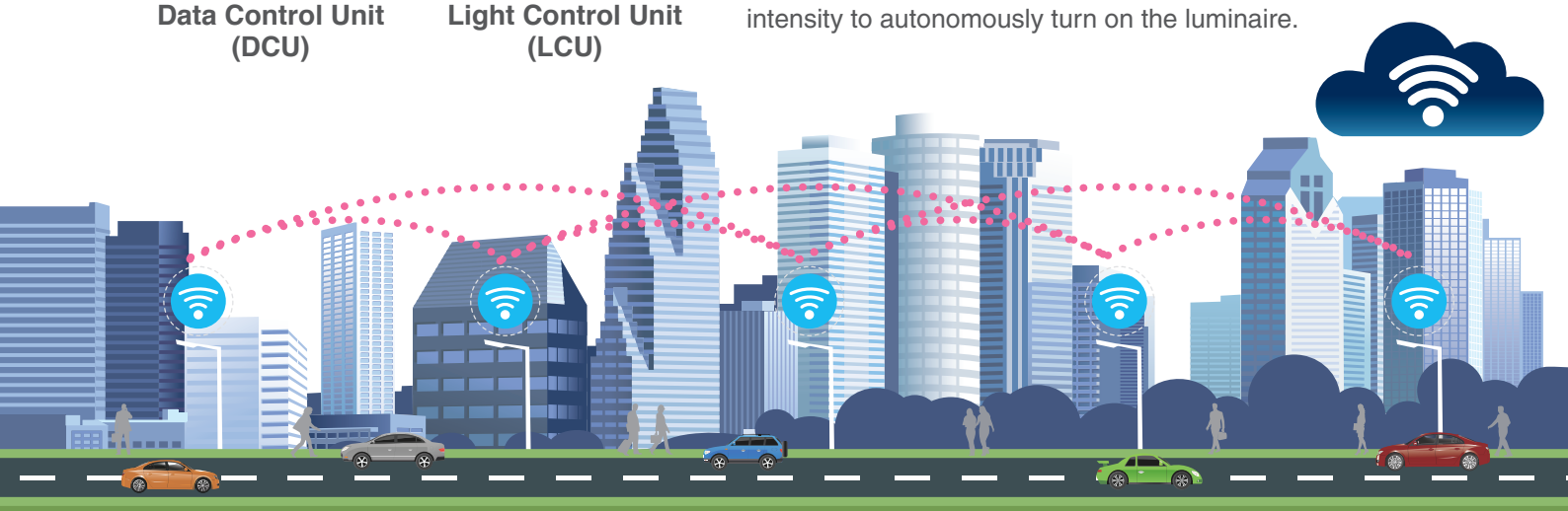
SMART FLEXIBLE

It gives flexibility for municipalites to manage data, obtain useful informations and control luminaires remotely. This means the operators can optimize their maintenance schedule to monitor street lights individually or in groups by streets or blocks from a computer or smartphone. Additionally, city planners are able to configure and schedule lights at a specific timeframe by dimming, on or off. iLCS makes it easy to control and automate your lights from anywhere and anytime. On another level, this smart system is open to integrate with value added functions, enriching and preserving urban livability, thus strengthening the city's infrastructures and metropolitan. Smart street lights are capable to solve city's real challenges.

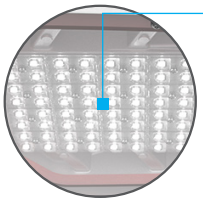
Each node of the network is embedded with a GPS receiver and an astronomic clock. This enables the node, when it is completely isolated (standalone) or the network is under maintenance, it will follow the profile that has been previously programmed. Besides, the enclosure is made semi-transparent to allow an embedded photocell to sense daylight intensity to autonomously turn on the luminaire.

Data Control Unit (DCU)

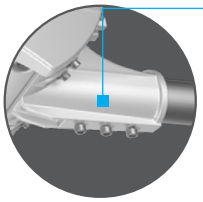
Light Control Unit (LCU)



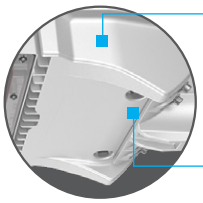
UNIQUE ADVANTAGES



Photometric
- Optical Versatility with Three Types of Distributions
- High Quality Lens with > 94% Efficacy
- Excellent System Efficacy ≈140 lm/W

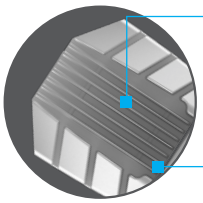


Mechanical Design
- Unique Spigot Mounting with 0°-10° Tilting Adjustment
- Post Top / Side Entry of ø60mm / ø76mm



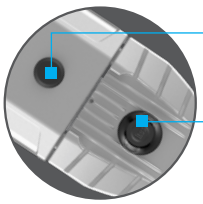
Housing
- Die Cast Aluminium Material
- Outdoor Polyester Epoxy Powder Coating

Membrane Vent Plug
- Pressure Equalizer



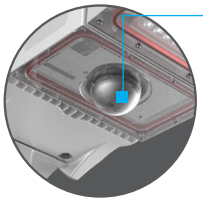
Heat Management
- Aerodynamic Heat Fins Design
- Dust Trap Free Design for Better Heat Dissipation Performance

Weatherproof Sealant
- Pure Silicon Material Gasket Provides Durable Protection at Outdoor Environment



Broadband Antenna
- WiFi Router / Bridge / Access Point

iLCS Light Control Unit (LCU)
- Smart Lighting Element Utilizing Mesh Network
- Metering, GPS and Photocell Embedded



IP PTZ Camera
- 2 MP with 1080p Full HD
- Basic Pan, Tilt and Zoom Maneuvers
- Meeting National Security Demands and Requirements

MEASUREMENT & ORDER CODE

WATTAGE	NO. OF LEDS	TYPICAL LUMINOUS FLUX	TYPICAL WATTAGE
75W	32	12300	77
100W	32	15790	100
120W	48	18280	120
150W	48	23155	152
180W	64	25844	180
200W	64	28860	201
240W	80	32592	240
250W	80	35580	262

TYPE	NETT WEIGHT
R0	16.0 kg
R1	16.0 kg
R2	20.0 kg
R3	22.0 kg

* All result tested base on 5000K CCT LEDs.

TECHNICAL SPECIFICATION

LUMINAIRE TECHNICAL DATA

- System Power : 75W
  : 100W
  : 120W
  : 150W
  : 180W
  : 200W
  : 240W
  : 250W
- Enclosure Material : Die Cast Aluminium
- Optical Cover : 95% Transparency Tempered Glass
- Gasket Material : Silicone Rubber
- Fitting Color : White Aluminium, Akzo Nobel RAL9006
  : Durable Polyester Epoxy Powder Coating
- Operating Temperature : -30 ~ +50°C
- Input Voltage : 220 ~ 240 Vac 50 / 60 Hz
- Surge Protection Device (SPD) : 10kV, 20kA
- Insulation Classification : Class I
  : Class II Upon Request
- Ingress Protection : IP66
- Impact Protection : IK08
- Spigot Mounting : 0°-10° Tilting
  : ø60mm Post Top / Side Entry
  : ø76mm Post Top / Side Entry (Upon Request)

COMPLIANCE

- LED : LM 80
  : UL
  : RoHS
- LED DRIVER : CE
  : EN55015
  : EN61000
  : EN61547
  : EN62493
  : EN61347
  : EN50581
  : EN62384
- LUMINAIRE : LM79
  : EN60598-1
  : EN60598-2-3
  : EN62471
  : EN61000
  : EN61547
  : EN62493
  : EN55015
  : CISPR 15
  : IEC62722
- SPD : IEC61643
  : UL
  : RoHS

iLCS LCU

- Operating Voltage : 100 ~ 305 Vac @ 50 / 60Hz
- Idle Consumption : < 1W
- Overvoltage, Overload and Thermal Protection
- Short-Circuit and Open-Circuit Protection
- Autonomous Operation Redundancy
- Antenna Integrated
- Metering Embedded
- GPS Embedded
- Photocell Embedded
- Dimming Interface : 0-10V
- Ingress Protection : IP66
- Analog Input Availability : 0-30V

LED MODULE SPECIFICATION

- LED Source : 5050
- CCT : 3000K Warm White
  : 4000K Neutral White
  : 5000K Cool White
- Lumen : >145 lm / watt
- CRI : Min 70
- L70 : 65,000 Hrs @ 25°C
- PCB Material : Metal Core
- Lens (94% Efficiency) : Type I
  : Type II
  : Type III

IP PTZ CAMERA

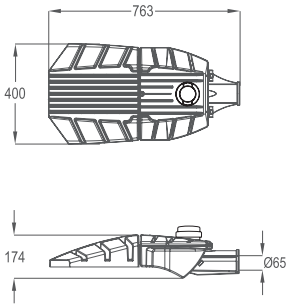
- 2MP with 1080P Full HD
- Day and night mode up to 50m IR range
- 10x Zoom Lens with F2.8 - 28mm
- Basic WDR (120dB)
- 30 fps at 1920 x 1080
- Pan and Tilt
- Approval : EMC: FCC, CE-EMC, RCM, IC VoC, KC
  Safety: UL, CB CE-LVD
  Environment: CE-RoHS, WEEE, Reach
  Protection: IEC

APPLICATION

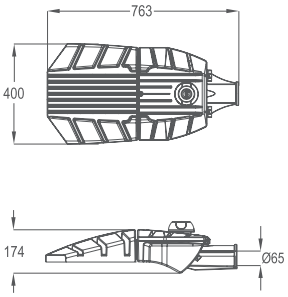
- Pathways
- Parks
- Car Parks
- Foot Paths
- Access Ways
- Road Lightings
- Residential Areas
- Municipal Expressways
- Facade Lightings

DIMENSION

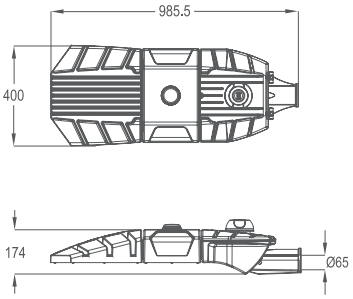
TRIMAX R0 - Side Entry (without LCU)



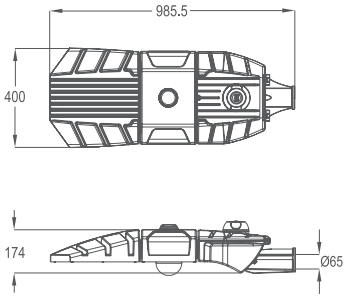
TRIMAX R1 - Side Entry



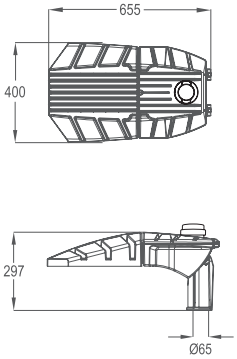
TRIMAX R2 - Side Entry (without CCTV)



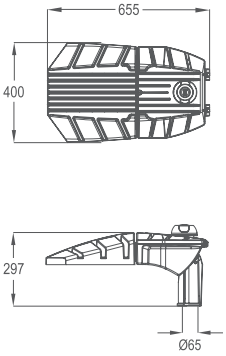
TRIMAX R3 - Side Entry



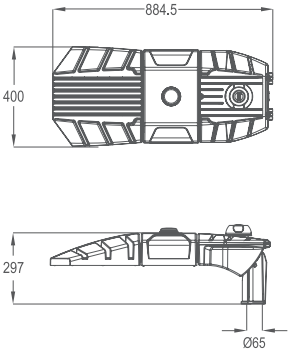
TRIMAX R0 - Post Top (without LCU)



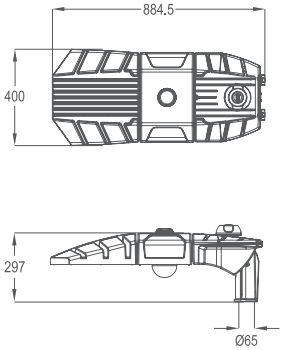
TRIMAX R1 - Post Top



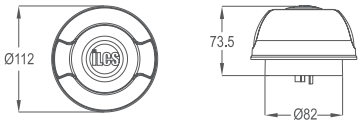
TRIMAX R2 - Post Top (without CCTV)



TRIMAX R3 - Post Top

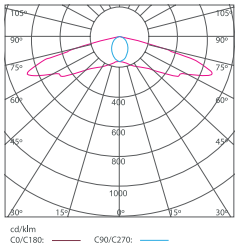


Light Control Unit

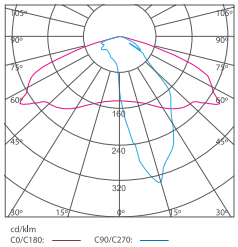


PHOTOMETRIC

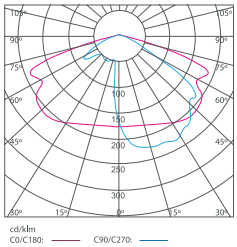
TYPE I - Rural Road



TYPE II - Urban Road



TYPE III - Expressway



Note: All specifications are subject to change without prior notice for product improvement. Images are for illustrative purposes only.

ILCS®
Intelligent Light Control System

HQ, MALAYSIA

SUCCESS ELECTRONICS & TRANSFORMER MANUFACTURER SDN. BHD.
199001009281 (200853-K)
(A wholly owned subsidiary of Success Transformer Corporation Berhad)

Hotline within Malaysia: 1300 88 2788
Tel : +603 6279 2800
Fax : +603 6157 2722

Sales Enquiry
Domestic: ses@success.com.my
Overseas: export@success.com.my

GLOBAL NETWORKS

SINGAPORE
SUCCESS TRANSFORMER PTE. LTD.*
Tel : +65 6742 4808
Fax : +65 6742 4708
Email : enquiry.stpl@success.com.my
Website : www.qpstransformers.com

INDONESIA
PT BOXON NIKKON JAYAINDO*
Tel : +62 21 2265 2860
Fax : +62 21 2265 2745
Email : marketing@nikkonlighting.co.id
Website : www.nikkonlighting.com

THAILAND
NIKKON LIGHTING (THAILAND) CO. LTD.*
Email : export@success.com.my
Website : www.nikkonlighting.com

**A subsidiary of Success Transformer Corporation Berhad*

Most Innovative Product Award
by Australian Smart Lighting Summit 2018

Most Innovative Product Award
by Middle East Lighting Design Summit 2018

Participation Award
by Abu Dhabi Smart City Summit 2019

www.nikkonlighting.com