

iLCS[®]

Intelligent Light Control System

**Transforming Human Lives
through Smart Lighting**



TRIMAX
LED SMART LIGHT

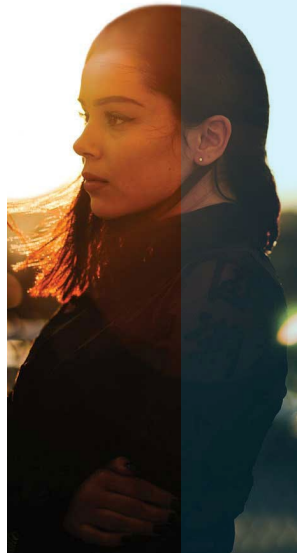


Intelligent Light Control System

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.

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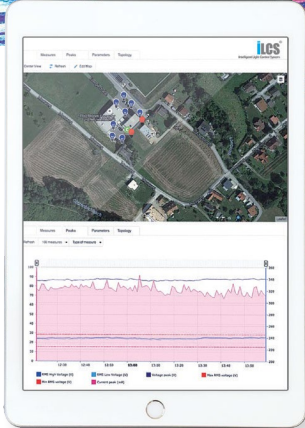
SOCIAL, ENVIRONMENTAL & ECONOMIC, SYSTEM BENEFITS

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



Data Control Unit (DCU)

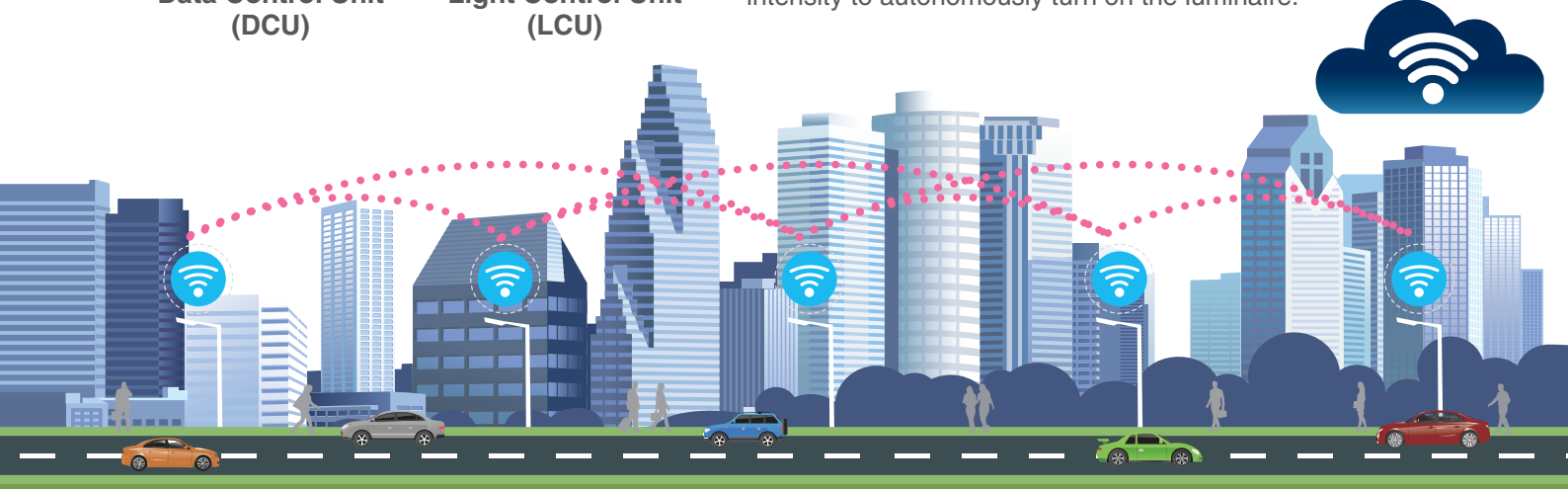


Light Control Unit (LCU)

SMART FLEXIBLE

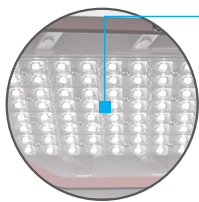
It gives flexibility for municipalities to manage data, obtain useful informations and control luminaires remotely. This means the operators can optimize their maintenance schedule to monitor street lights individually or in groups by streets or blocks from a computer or smartphone. Additionally, city 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.



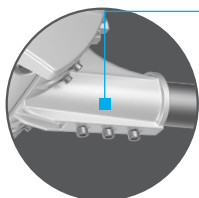


UNIQUE ADVANTAGES



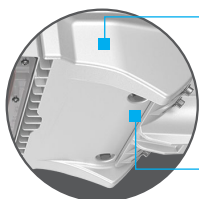
■ Photometric

- 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

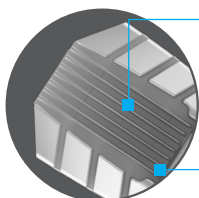


■ Housing

- Marine Grade High Corrosive Resistant LM6 Aluminium Material
- Outdoor Polyester Epoxy Powder Coating

■ Membrane Vent Plug

- Pressure Equalizer

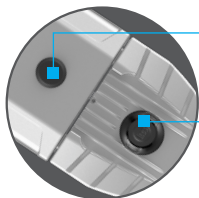


■ Heat Management

- 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

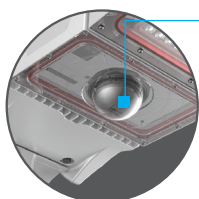


■ Broadband Antenna

- 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	TYPE	NETT WEIGHT
75W	32	12300	77	R0	16.0 kg
100W	32	15790	100	R1	16.0 kg
120W	48	18280	120	R2	20.0 kg
150W	48	23155	152	R3	22.0 kg
180W	64	25844	180		
200W	64	28860	201		
240W	80	32592	240		
250W	80	35580	262		

* All result tested base on 5000K CCT LEDs.

TECHNICAL SPECIFICATION

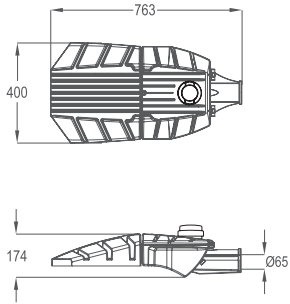
LUMINAIRE TECHNICAL DATA	COMPLIANCE
<ul style="list-style-type: none"> System Power : 75W : 100W : 120W : 150W : 180W : 200W : 240W : 250W Enclosure Material : Die Cast Marine Grade Aluminium Optical Cover : 95% Transparency Tempered Glass Gasket Material : Silicone Rubber Fitting Color : White Aluminium, 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) 	<ul style="list-style-type: none"> 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	LED MODULE SPECIFICATION
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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

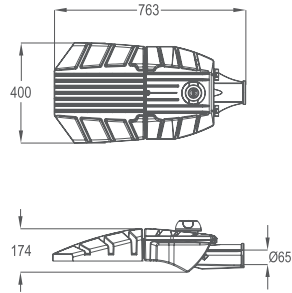
IP PTZ CAMERA	APPLICATION
<ul style="list-style-type: none"> 2MP with 1080P Full HD Day and night mode up to 50m IR range 10x Zoom Lens with F2.8 - 28mm Basic WDR (120dB) 30 fps at 1920 x 1080 Pan and Tilt Approval : EMC: FCC, CE-EMC, RCM, IC VoC, KC Safety: UL, CB CE-LVD Environment: CE-RoHS, WEEE, Reach Protection: IEC 	<ul style="list-style-type: none"> Pathways Parks Car Parks Foot Paths Access Ways Road Lightings Residential Areas Municipal Expressways Facade Lightings

DIMENSION

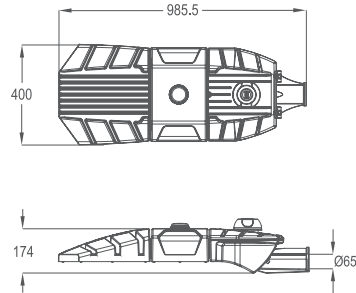
TRIMAX R0 - Side Entry
(without LCU)



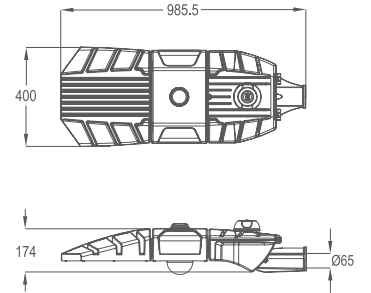
TRIMAX R1 - Side Entry



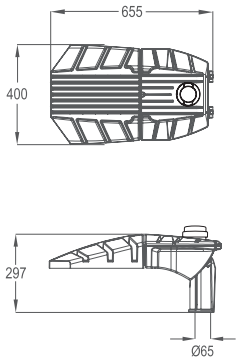
TRIMAX R2 - Side Entry
(without CCTV)



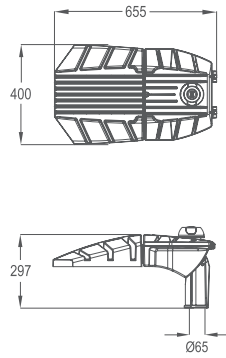
TRIMAX R3 - Side Entry



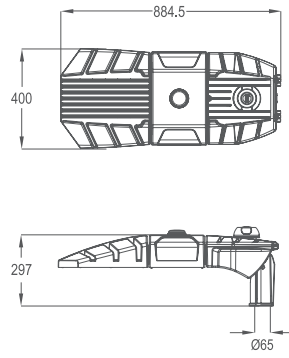
TRIMAX R0 - Post Top
(without LCU)



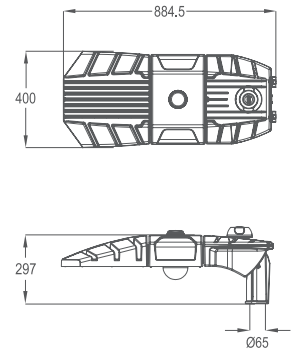
TRIMAX R1 - Post Top



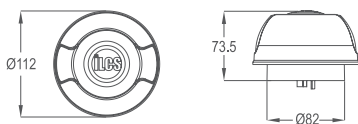
TRIMAX R2 - Post Top
(without CCTV)



TRIMAX R3 - Post Top

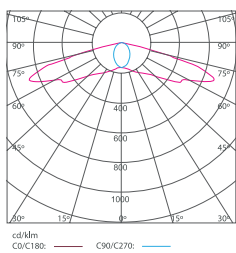


Light Control Unit

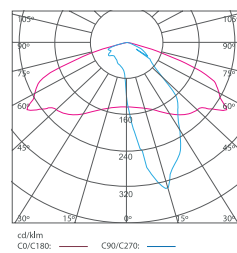


PHOTOMETRIC

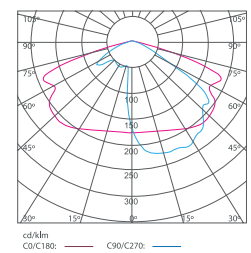
TYPE I - Rural Road



TYPE II - Urban Road



TYPE III - Expressway



Note: All specifications are subject to change without prior notice for product improvement. Images, pictures and illustrations used are for illustrative purposes only and the color printed in the brochure may differ from the actual product.



Intelligent Light Control System

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