

HOW IT WORKS

Very easy to install, operate and maintain, Raypoles can be installed by an engineer and two technicians in just seven hours - 4 hours for structure and 3 hours of internal connections. The monitoring of the functions is done from a remote Control Command Centre. Everything from streetlights to energy data analysis, WiFi signal connectivity, traffic management, advertising message, video recording to alarm systems can all be monitored and managed from the Control Command Centre, which is manned by well-trained personnel. Raypole is available with or without integration of Telecom Antenna.

RAYPOLE AS A PART OF SMART CITIES

| Overall Dimensions | | Modules | |
|--------------------|---------------------------|-------------------------------------|--|
| Foot Print Area | 550mm X 550mm Max. | Mobile Antennas | |
| Top Pole Dia. | 150 mm | Intelligent Street Lights | |
| Concrete Base | 800mm X 800mm | Wifi, Surveillance Camera & NVR | |
| Height | 8500mm (without Antennas) | Emergency Call Box | |
| Height | 12000mm (with Antennas) | Advertisement & Air Quality Display | |
| Weight | 900kg | Solar Panels with Hybrid Inverter | |
| | | Battery Bank & Power System | |

| Technical Parameters | | | |
|------------------------|----------------|----------------|-------------|
| Input Supply Voltage | 220-250V | LED Lights | Up to 90W |
| Max. Current Capacity | 16 Amp | Communications | GSM & OF |
| Frequency | 50Hz | Suitable Temp. | 0-50 deg |
| Electrical Protections | O/C,E/F & SC | Material | SS / MS |
| Ingress Protection | IP 55 | Camera Type | PTZ / Fixed |
| Battery Size | 2 X 150Ah, 12V | Servers | Cloud based |
| Solar Panel | 2 X 100Wp, 12V | Connectivity | Telecom |

Raypole can be design & develop based on customer specific requirements along with required modules.

Raychem RPG

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RAYPOLES

Because Smart Cities Need Smarter Solutions



www.raychemrpg.com

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RAYPOLES: BECAUSE SMART CITIES NEED SMARTER SOLUTIONS

Raypoles is a next-gen multi-function outdoor pole unit designed to efficiently provide several features that are congruent to smart city requirements. It functions as a self-sustaining intelligent street light while also being the eyes for the security department as it has inbuilt surveillance systems. It is also a helpful tool for air quality monitoring, a necessity element for emergency communications, a handy advertising display medium and a convenient WiFi access point. When you are low on charge for your electric vehicle, a Raypole is what you seek as it doubles up as a charging station. What's more, Raypoles have a hybrid inverter and a battery bank for the maximum usage of solar power generated through a solar panel, used during unavailability/failure of utility power.

Solar Panel

- High efficiency monocrystalline cells
- Maximum sunlight utilization
- Certified by IEC 61215 standards

Surveillance Camera

- Powerful 18x optical zoom Sony camera
- 120dB true WDR, 2D/3D DNR
- Max.25/30fps@1080P
- IR distance up to 120m
- Fully weather proof IP66 outdoor design
- No surveillance blind zone

WiFi Access Point

- 2.4 Ghz with 150 MBPS speed
- Up to 50-70 mtr full signal strength
- Complies with wireless standards IEEE 802.1.11g

Hybrid Inverter

- User settable Solar/Grid priority
- Effective charging
- Overload protection
- Automatic changeover based on power availability

Intelligent Street Lights

- Web-based sunset & sunrise remote ON/OFF
- 100 Lumens/Watt with >8400 lumens
- Working Temp. -20 C to 60 C
- Life Expectancy Min. 50000 hrs

Advertisement Display

- Outdoor auto brightness adjustment
- Advertisement sharing from command center
- Ethernet, USB & Wifi connectivity
- Maintenance free Outdoor IP 55 design

Electric Vehicle Charging

- Secured RF recharging
- Easy to operate
- Shock-proof
- EV Overload & Short Circuit protection

Battery Bank

- Over 3 hours of power backup
- Quick and efficient charging
- Maintenance free batteries

Telecom Antenna Enclosure

Air Quality Display

- Module for better visibility
- 30 mtr visibility distance
- Sensors for Temperature, Carbon Monoxide, PM10, PM2.5, Air Quality & GPS

Emergency Communications

- Hands-free builtin loud speaker
- Single button emergency call
- Clear and loud voice conversation

