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OWLET IOT

WHAT IS OWLET IOT?

Next Generation Smart Lighting Management

High performing remote lighting management system

- Manage & monitor LED luminaires
- Asset management tool

IoT ready platform

• Future oriented and open to 3rd party integration





MAIN APPLICATIONS



MAIN REASONS WHY TO USE OWLET IOT

- Manage and maintain your assets
- Reduce your energy bills through advanced dimming profiles
- Operate & maintain your light network more efficiently
- Possibility to integrate IoT sensors & applications



Owlet User Interface – individual luminaire view

Owlet User Interface – asset management

CONSTANT LUMEN OUTPUT



Power savings compared to constant power operation during 70000 h:

- L70: ~20 % L80: ~12%
- L90: ~6 %





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WHY OWLET IOT IS DIFFERENT

Easy installation & automatic commissioning

- Easy field install on standard 7-pin NEMA socket
- Auto-commissioning through GPS, RFID & secure cellular communication

Extremely robust & redundant system

- Hybrid communication
- Integrated photocell for failsafe functionality + astro-clock
- Highly secure APNs

Accurate

- Utility grade meter (1% accuracy)
- RFID reader enables accurate asset management

Advanced lighting functionalities

- Possibility to add PIR sensor in the local mesh network
- Integral remote configurable energy savings algorithms like CLO

Open & Future-proof

- IoT ready with possibility to integrate other sensors & data through open APIs
- Usage of open protocols & standards
- IPv6 equipped



OWLET IOT LUCO CONTROLLER

Smart control module for outdoor luminaires

- Integrated cellular module communication (to the Cloud)
- RF module uses mesh Zigbee communication (between Nodes)
- Integrated GPS module supports geo-locating
- Integrated RFID reader enables accurate asset identification
- It is ANSI C136.41 (7Pin) NEMA twist lock receptacle
- Integrated photocell provide failsafe functionality through day/ night switching + astro clock functionality
- DALI and 1-10V dim interface
- Digital input and power supply for a passive infrared sensor
- Utility grade meter offers accuracy of 1% over the complete dimming range



HOW DOES IT WORK?

USER INTERFACE APPLICATION



- Energy consumption curve over time
- Number of light points or a single light point
- Light output time (average)
- Off time (average)
- Dimming status (average)
- Reports and alarms
- Asset data

- Flexible analytics and visualization platform
- Real-time summary and charting of streaming data
- Intuitive interface for a variety of users
- Instant sharing and embedding of dashboards



GLOBAL REFERENCES

City: +500 cities

Installed Base: +100 000 nodes controlled

Some Examples

- Krakow (+4 400 luminaires)
- San Jose (+22 000 luminaires)
- Le Mans (+300 luminaires)
- Ho-Chi-Minh (+800 luminaires)
- Johannesburg (+1000 luminaires)





Experts in lightability[™]

THANK YOU

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VAN DER NEST