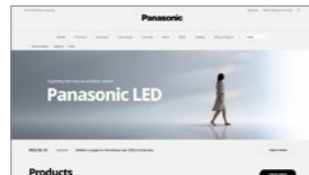


## Street Lighting

Panasonic Lighting - Product Quality Testing



Learn more about Panasonic lighting



Please contact .....

# “CITY CONNECTED” SMART STREET LIGHTS PROVIDE A BETTER LIFE IN OUR COMMUNITIES

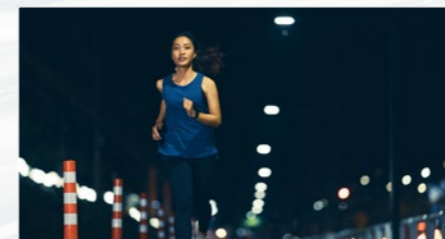
## Panasonic Quality Policy

“Quality is Top Priority” has always been our basic policy, and we strive to continue providing quality solutions.

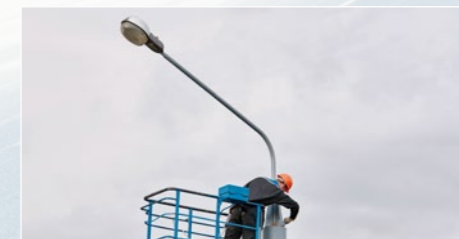
- Business harmonized with society and environment
- Supply consumers with maximum satisfaction and sense of security and safety



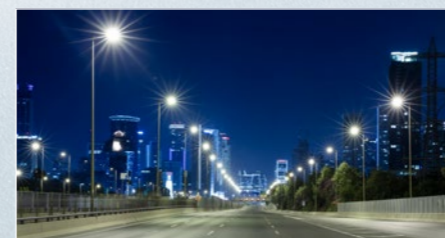
## Panasonic Advanced Features



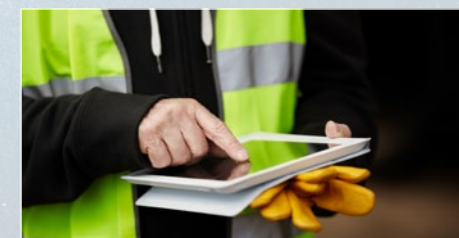
Enhancing Visibility



Maintenance Made Easy



Bright Road With Low Energy Consumption



Easy Remote Control

# Basic Lighting Design Proposal

## Urban Area / Suburbs

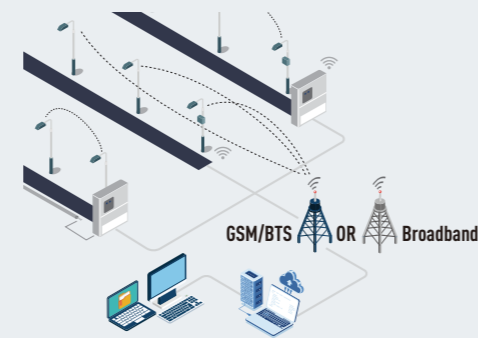
### Smart Street Light

Smart Street Lights are suitable for areas which need a centralized management system, auto-dimming setup, and energy consumption monitoring system.

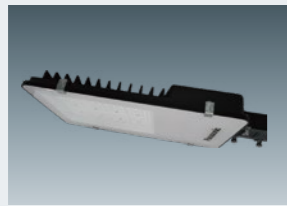


Smart Street Light (Device)

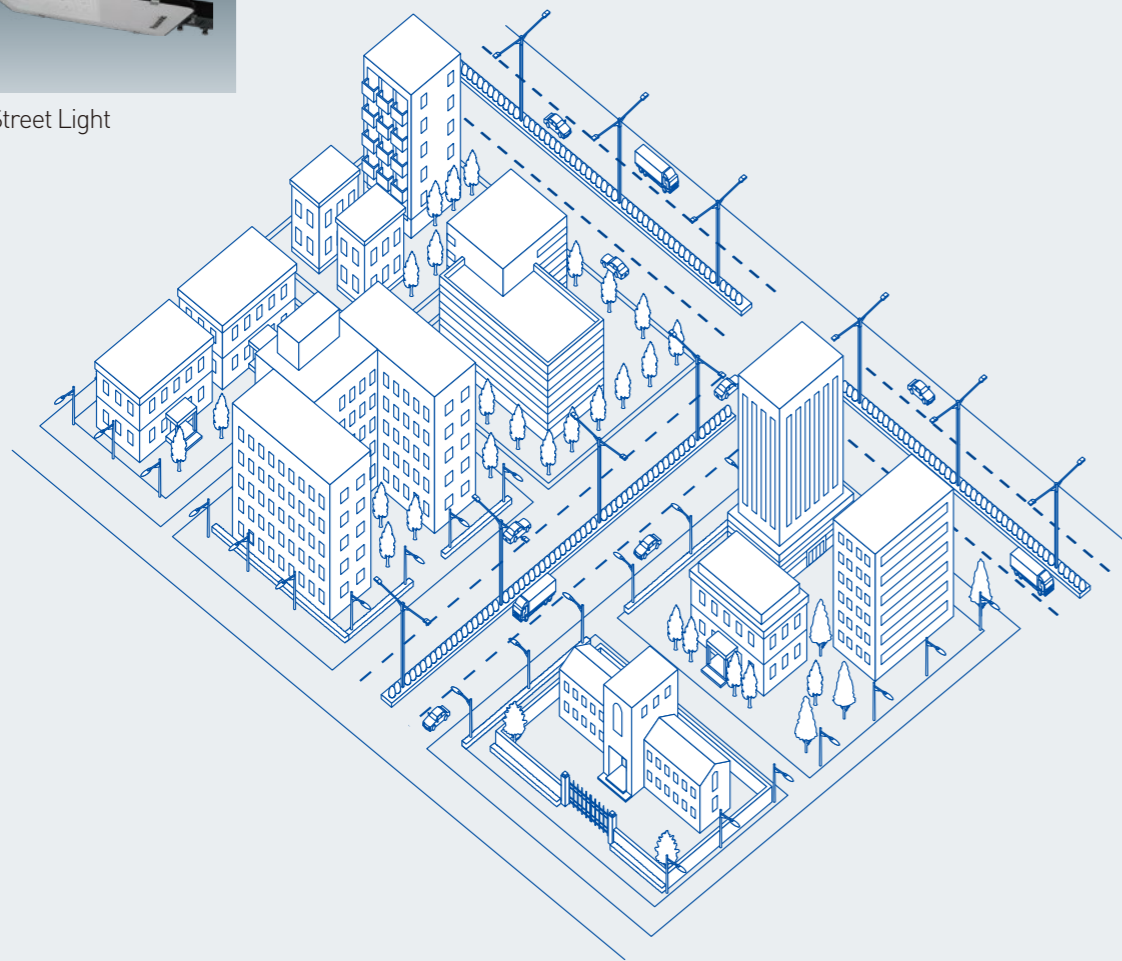
### Smart LED System



### Standard Street Light



SP Street Light



## Rural Area

### Solar Street Light

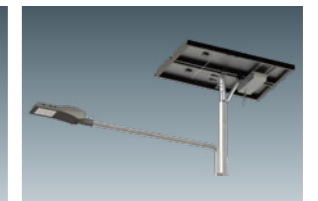
Solar Street Lights are suitable for non-electrified areas such as a distant province, forest, mountainous area, etc.



PRO Series

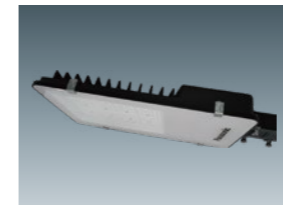


Eco Series

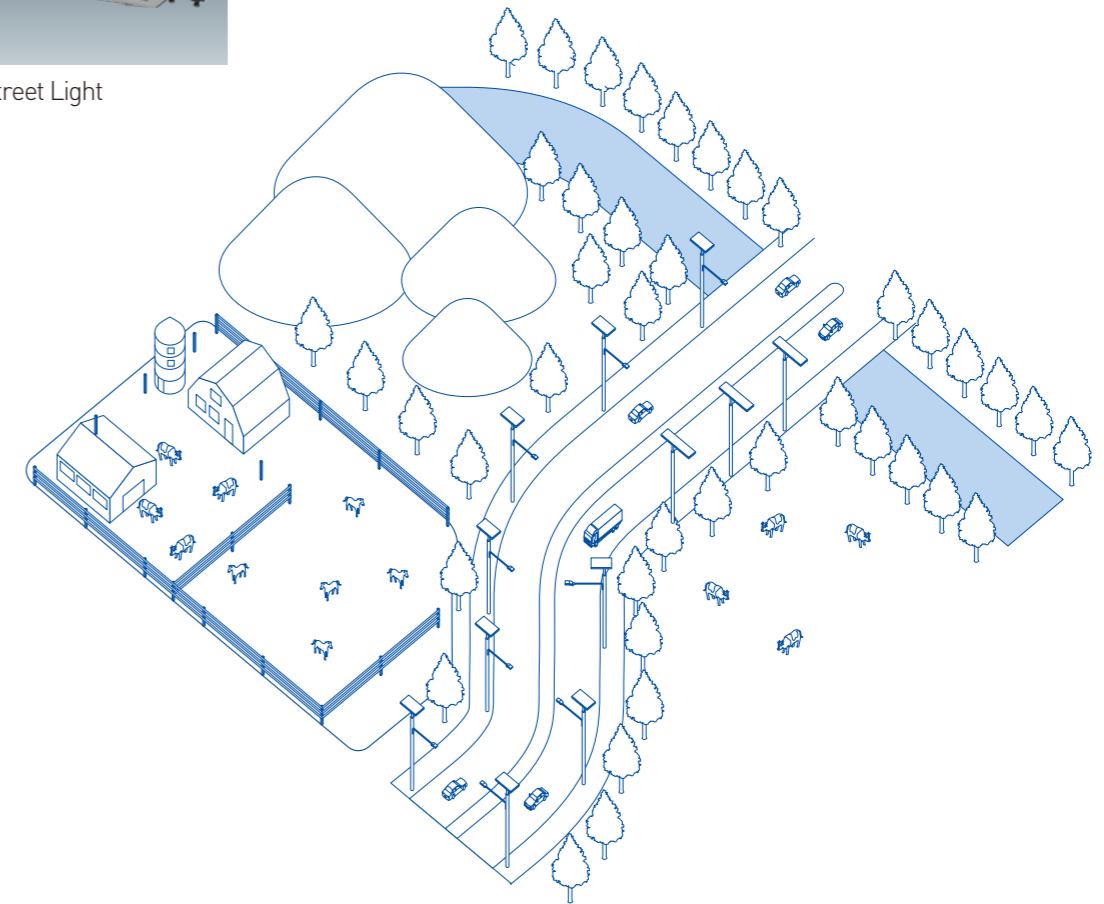


Split Series

### Standard Street Light



SP Street Light

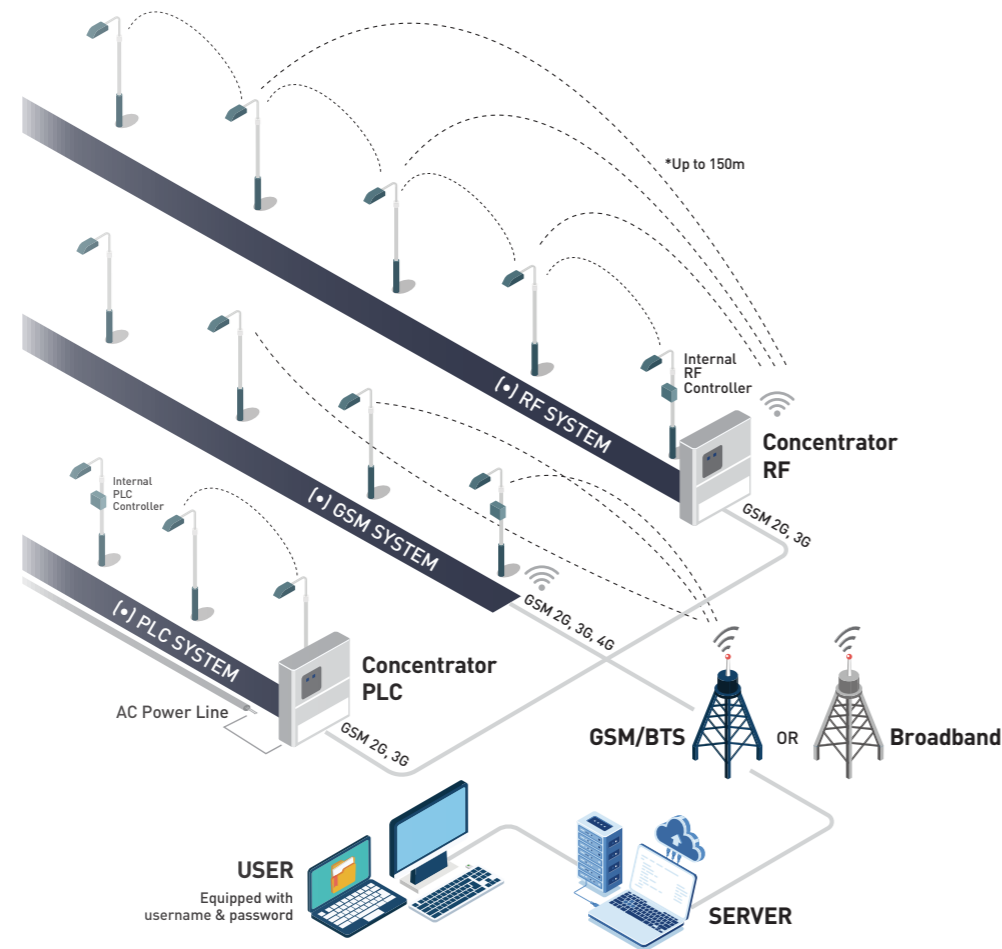


# Intelligent Street Lighting Solution

## Smart Street Lighting System

### 1 Hybrid Communication System

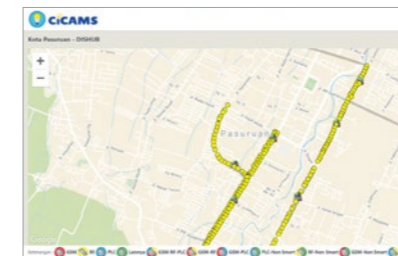
Street lights are flexible and can utilize the various listed communication systems; GSM, RF-GSM and PLC-GSM.



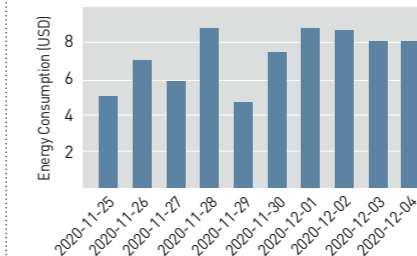
### 2 Remote Control and Monitoring

By connecting street lights with this hybrid communication system, users can control the street light operation from a remote area.

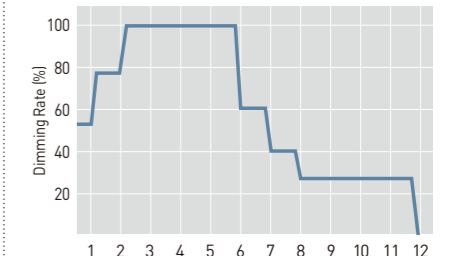
**CiCAMS**  
(City Connected Asset Mangement System)



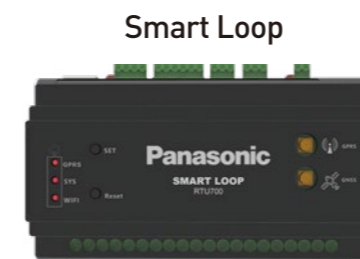
**Energy Consumption Monitoring**



**Auto-dimming Setup**



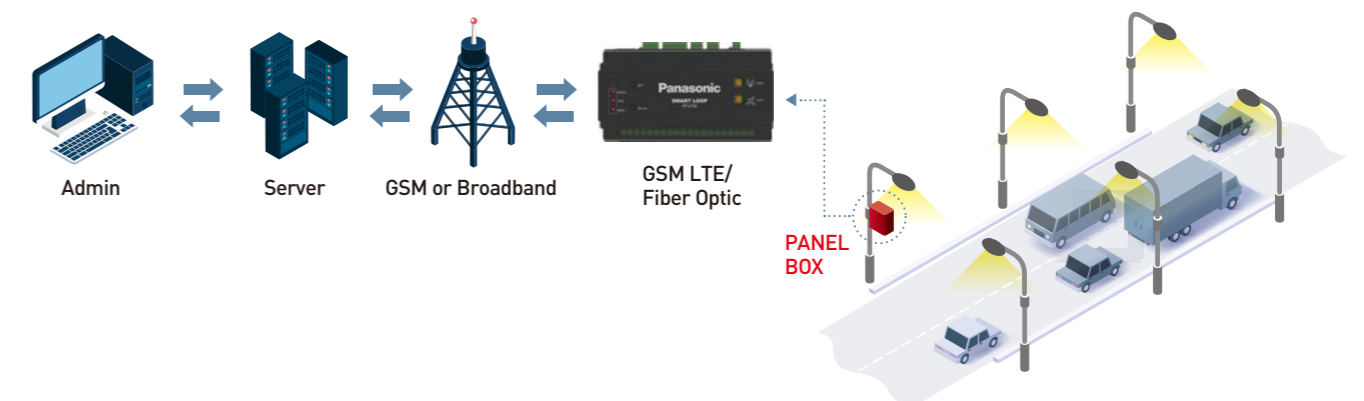
### 3 Retrofit fixtures modified into a Smart Street Lighting System



<b>Application</b>	Suitable to be installed with standard street light and landscape lighting.
<b>Feature</b>	Allows for control and monitoring of the standard street lights and landscape lighting through CiCAMS*.

Smart System GSM	Smart System RF	Smart System PLC
Ideal for projects with 10 luminaires or fewer.	More efficient for grouping, 1 concentrator can control up to 200 luminaires.	More efficient for wire grouping. 1 concentrator can control up to 200 luminaires. Suitable for all types of streets.
Luminaires must be in a location where the signal is strong.	Can work in areas where the GSM signal is weak or unstable such as a subway, underpass, tunnel, etc.	Can work in areas where the GSM signal is weak or unstable because using power supply cable for the communication.
No need for a panel controller.	Equipped with measurements and control features in the Concentrator panel.	

#### Communication System



\*CiCAMS = City Connected Asset Mangement System

# Case Study

## Smart Street Lighting System

### Indonesia : Smart LED Lighting



<b>Location</b>	Jakarta, Indonesia
<b>Product</b>	Smart street light, pedestrian light, etc
<b>Units</b>	About 30,000 units
<b>Benefit for customers</b>	Easy to be controlled via PC or smartphone. Reduction in energy consumption. CiCAMS* can be integrated easily with governmental smart city systems.

#### For further information

[https://panasonic.net/electricworks/job-references/id\\_19\\_streetlight/index.html](https://panasonic.net/electricworks/job-references/id_19_streetlight/index.html)

### India : Smart LED Lighting



<b>Location</b>	Maharashtra, India
<b>Product</b>	Smart street light
<b>Units</b>	161 units
<b>Benefit for customers</b>	Notify the problem whenever via software. Provide a vibrant brightness with low energy consumption.

#### For further information

[https://panasonic.net/electricworks/job-references/in\\_21\\_streetlight/index.html](https://panasonic.net/electricworks/job-references/in_21_streetlight/index.html)

# Intelligent Street Lighting Solution

## Solar Street Lighting System

High performance of LED, battery, and solar panel system

### Product Line-up

PRO Series



ECO Series



Split Series



### Quick Specs

	PRO Series	ECO Series	Split Series
Wattage Lineup	15, 20, 30, 40, 50, 60	20, 30, 40, 50, 60	40, 60, 70, 80, 90, 100
lm/W	180	150	150-180

### Main Features



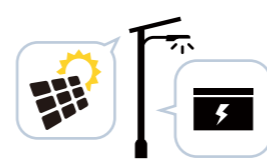
Can offer both smart type and standard type.



Equipped with motion sensors for detection of movement around street lights.



Equipped with 4 modes of dimming programs. Can choose a mode by remote controller.



Utilizes LiFePO4 battery and monocrystalline solar panel for maximum performance.

## Standard Street Light

Product for common street situation

### Product Line-up

SP Street Light



### Quick Specs

	SP Street Light
Wattage Lineup	30, 60, 90, 120
lm/W	120-125
Features	—

### Comparison table from Mercury to LED

Unit: lm Maintenance Factor = 1.0

Mercury	SP Street Light
400W	
300W	120W
200W	90W
100W	60W
80W	30W
40W	