Pivot THINGS THINK | **PRECISION** GROUP

Precision
SMART LIGHT CONTROLLER
PG-SLC 100

Smart Light Controller is an intelligent lighting control solution which communicates to the cloud via a suitable gateway. The evolution of smart light controllers has become an inevitable part as lighting is moving towards Wellness, Human centric and Safety requirements. Our smart light controller, PG-SLC 100, is able to achieve an array of operations using BLE mesh/LoRa WAN technology, where it has the capability to integrate multipurpose sensors for a centralized operation and monitoring control.

15%
Increase in Productivity

Our Smart Lighting System helps in increasing alertness during work hours, enhances experience and regulates sleep cycle among employees. Also, our intelligent system helps the occupants of the facility in boosting their energy level for maximum productivity and reducing overall stress & fatigue.

Highlights

» Improves work performance and productivity

» Power Saving

» Occupancy Sensor

» Day Light Harvesting

» Scheduling

» UVA/UVC Virus Protection Lighting

Verticals

» Hospitals

» Offices

» Factories

» Commercial Spaces

» Schools

» Homes

OUTDOOR STREET LIGHTS

28%
Power Saving

In cities, the streetlights are switched ON typically from evening 6p.m. till 6a.m. In rural areas during the early morning hours between 12a.m. & 3a.m. there aren't any pedestrian motion or vehicles passing by. During this time our Smart Light Controller reduces the intensity of the light to 30%-50% until a movement is detected, by doing this we will be able to save approximately 20%-28% of power.

Highlights

» Scheduling Auto ON/OFF

» Air quality sensor

» Pollution Monitoring - CO_2/CO/PM2.5 sensors

» Intensity Control, Motion Detection & Power Optimization

67%

of Human Time is Spent Under Lighting

Our smart light controller provides Wellness & Human Centric light with additional functionalities like Local user control and Scheduling using a mobile app.

Highlights

» Gas, fire, and smoke sensor

» Tunable intensity and colour (WW to CW)

» Remote operation

90%
Improvement on Sleep Efficiency

Our Smart light controller mimics the natural light for ICU/CCU patients who don't receive much natural light. By mimicking the outside natural light we help in improving the patients sleep cycle, calming their mind and improve their overall comfort and healing, which in turn helps in a faster recovery rate.
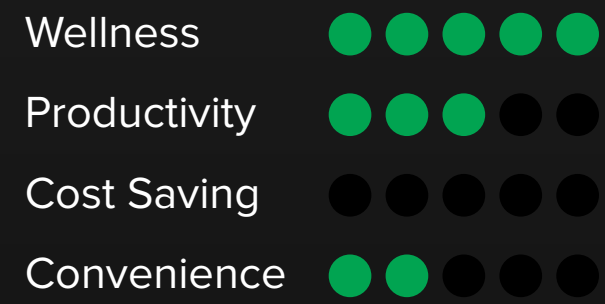
Highlights

» Centralized light control via portal & App control

» Faster healing rate

» Wellness/Human Centric Lighting in ICU/CCU

» Occupancy based UVC lighting for disinfecting surface and air

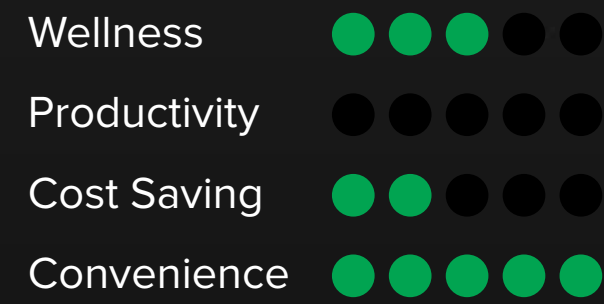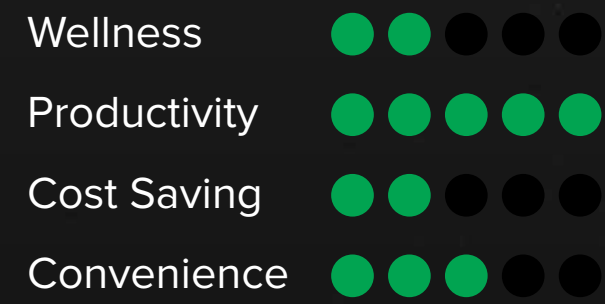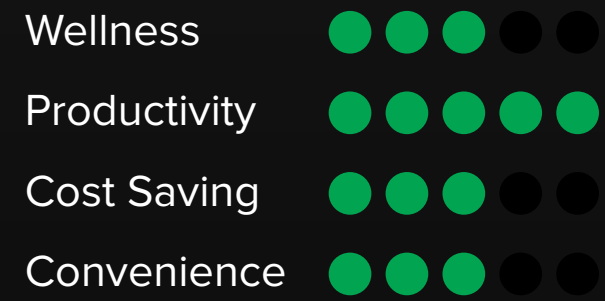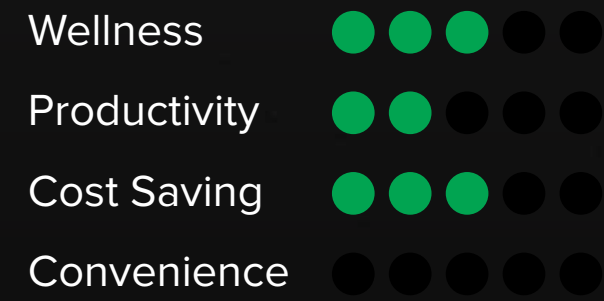# SEGMENT WISE BENEFITS

Healthcare

Wellness	●●●●●
Productivity	●●●
Cost Saving	(No Impact)
Convenience	●●

Hospitality

Wellness	●●●
Productivity	(No Impact)
Cost Saving	●●
Convenience	●●●●●

Retail

Wellness	●●
Productivity	●●●●●
Cost Saving	●●
Convenience	●●●

Workspace

Wellness	●●●
Productivity	●●●●●
Cost Saving	●●●
Convenience	●●●

Education

Wellness	●●●
Productivity	●●
Cost Saving	●●●
Convenience	(No Impact)

Campus /Public area Outdoor
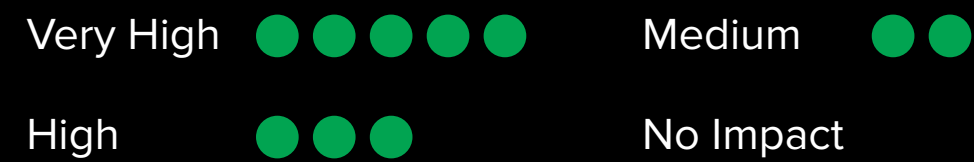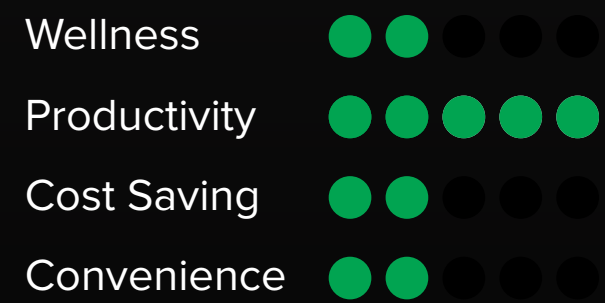
Wellness	(No Impact)
Productivity	(No Impact)
Cost Saving	●●●●●
Convenience	(No Impact)

Govt. Sector

Wellness	●●
Productivity	●●●●●
Cost Saving	●●●
Convenience	●●

Legend

Very High	●●●●●	Medium	●●
High	●●●	No Impact	

Technical Specification

2* GPIO Occupancy, gas/smoke sensor

1* I2C

1* Temp Sensor

1* Temp Sensor

1* Dimming 01-10V / CCT

1* Dimming 01-10V / CCT

BLE / LoRa - WAN / Wi-Fi

Multi color LED indicator

230V AC/50 Hz

Additional wellness enabled like pollution monitoring, CO monitoring and disinfection of the area using UVC lighting

Power Saving - Occupancy based lighting

Intensity control to suit the user's comfort and enabling power saving

Enabling Circadian for wellness and improving sleep cycle upto 90%

Customized user experience

Built in power supply to retrofit existing luminaire

Energy saving switch built in

Highlights

LoRa Compliance to LoRa

Backhaul Connectivity (WiFi)

BLE Mesh Network