

IntelliDim

Dynamic Lighting Controller

IntelliDim is an independent 3-in-1 artificial intelligent lighting controller, featured with customised lumen output settings, occupancy detecting and daylight harvesting.

- AI Dimmer
- PIR occupancy sensor
- Light sensor



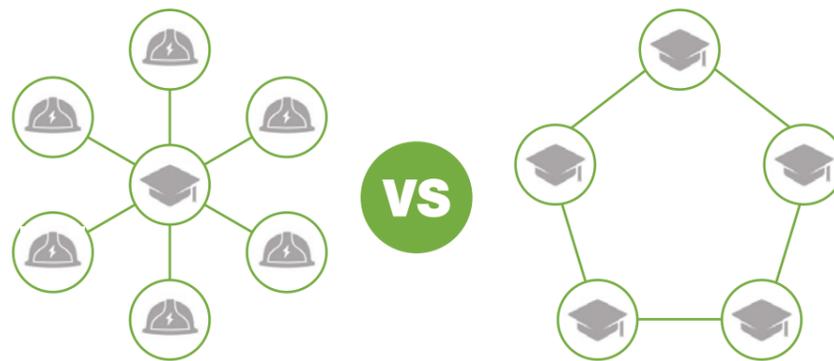
IntelliDim

Dynamic Lighting Controller



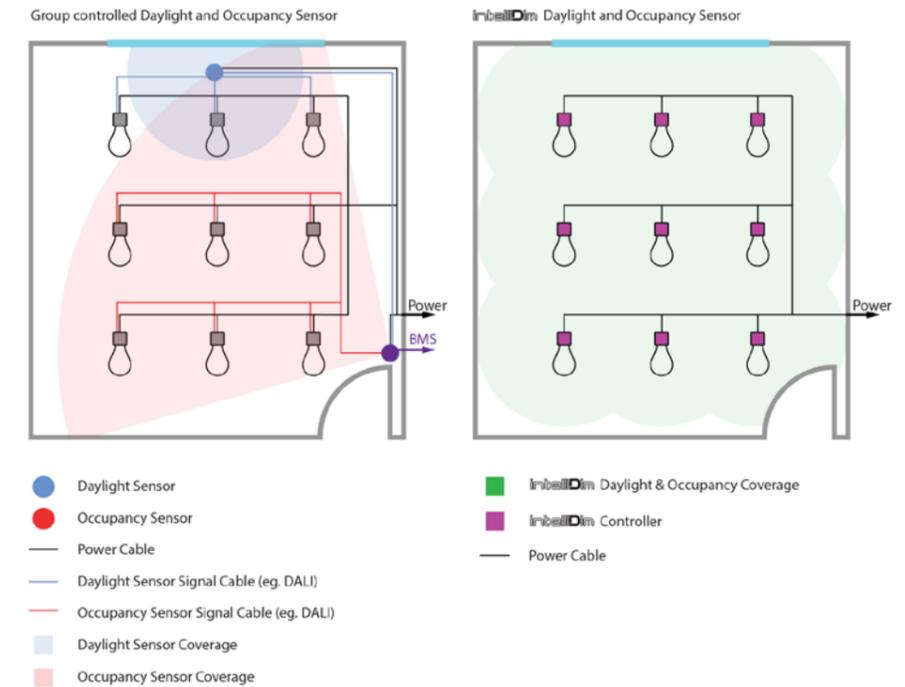
DECENTRALISED SYSTEM

IntelliDim integrates into each luminaire allowing decentralised control per fixture. This plug and play system avoids expensive wiring and complicated controls, and brings individual programming ability to each luminaire without networking. Each **IntelliDim** can be commissioned through its user-friendly smart phone APP.



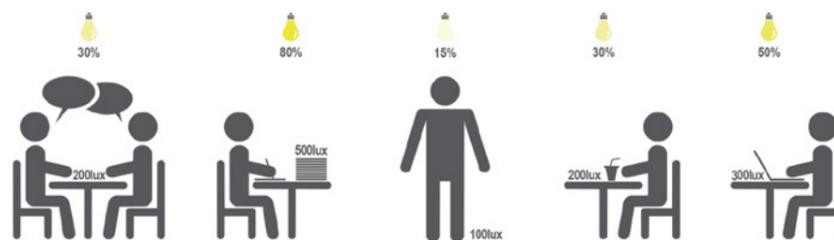
IntelliDim features Occupancy and Daylight Harvesting sensing for each individual luminaire. Unlike zone control systems, each luminaire will be responsible to manage its immediate surrounding. All parameters can be easily adjusted through smart phone APP.

- **Maximise coverage**
- **Independent automation**
- **Easy installation**



- **Decentralised system**
- **Independent control for each luminaire**
- **Plug & Play**
- **APP Control**
- **No expensive wiring costs**

IntelliDim provides the flexibility to commission each luminaire at different light level in order to meet precisely the required lux level for various space usage. Fully maximises energy saving and eliminate light pollution.

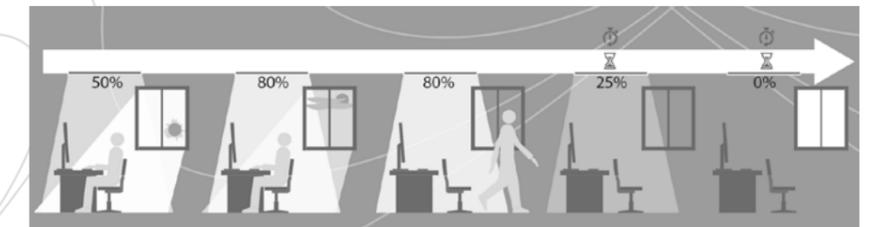


➤ **Different light level for each luminaire**



- **Normal Light Levels: 25-100%**
- **Vacancy Timer: off / 1-120mins**
- **Fade Time: 1-30mins**
- **Standby Light Levels: 5-80%**
- **Standby Timer: 0 / 5-240mins / ∞**

IntelliDim provides flexible parameters at your fingertips through smart phone APP.



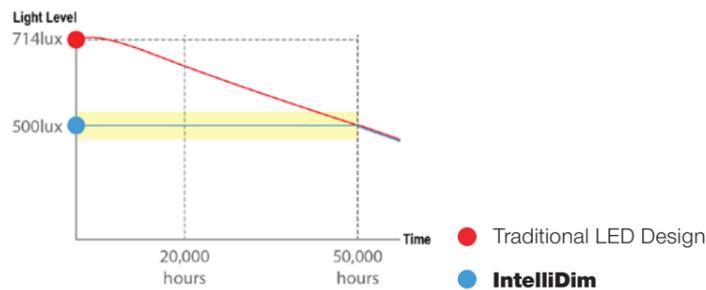
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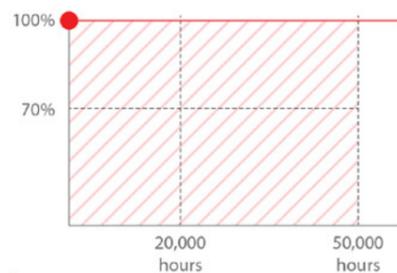
- ▭ Precise light level settings
- ▭ Elimination of LMF (Lumen Maintenance Factor)
- ▭ Save extra energy
- ▭ No light pollution due to over design
- ▭ Prolong service life

IntelliDim features Constant Light Output (CLO). When setting the required light level, a snapshot of the surrounding light level will be stored in the sensor. The system takes into account of LED light chips deterioration and compensate with additional power to maintain the required light level. This effect eliminates the additional energy consumption and light pollution that typical lighting design allows for lumens maintenance factor.

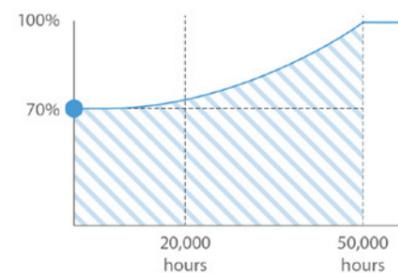
Light level comparison



Energy Consumption of Tradition LED lighting

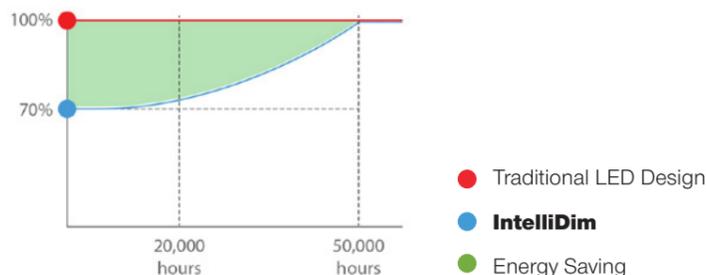


Energy Consumption with IntelliDim CLO



IntelliDim CLO will maintain the required light from day one, with immediate 30% energy savings. Across time, LED chips deteriorates, more energy will be consumed to compensate LED chips deteriorations.

Through the course of 50,000hrs, addition overall savings could be greater than 15% on average.



IntelliDim provide great selections of parameters with smartphone APP, but yet it doesn't bring the complications of wireless network pairings and connections. After choose the appropriate parameters on the APP, the settings can be signaled through the smartphone's flash.

The **Overall Settings** page is ideal for commissioning the luminaire for the rest time. It enables users to choose parameters in Lumen levels, Timers, CLO and Daylight Harvest.

The landing page asks the user to choose from 3 different purposes of commissioning.

When using the **Timer Adjustment** function, the change of timer settings will not alter any preset Lumen Levels.

Lumen Level Adjustment allow users to alter the current light level without the reference of the existing parameters, and will not alter any timer settings.

Each time the Lumen Level is adjusted, a snap shot of the surrounding light level will be captured and stored inside **IntelliDim**. This reference will be used as benchmark for the CLO and Daylight Harvesting function. It is advised when setting Lumen Levels, user should set it in the absent of daylight.

The dynamic diagram shows the chosen lumen and timer parameters.

Overall Settings Lumen Level sets the amount of light generated by the luminaire to meet target light level. This setting range from 30-100%, which reverts the full power of the luminaire driver1.

Standby Lumen Level sets the amount of light generated by the luminaire in the range of 5-80% when the below space becomes vacant. This feature is optional and is only available when Time is set to ON.

When Timer is set to OFF, there will not be any motion detection, luminaire will maintain at the Lumen Level.

When Timer is set to ON:

Vacancy Timer (1-120mins) sets out the duration of vacancy before luminaires dims down to Standby Lumen Level; **Fade Timer** (1-30mins) sets out the duration of the dimming process from Lumen to Standby Lumen Level;

Standby Timer (5-240mins, 0min or) sets out the duration to switch o the luminaire from Standby Lumen Level. If set to 0, luminaire will skip the standby lumen level and immediately switch o after the Vacancy Timer count down. If set to , then the luminaire will NOT switch-off and maintain at Standbyby Lumen Level.

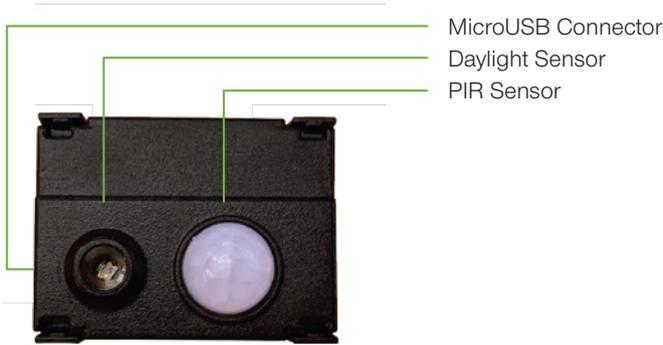
Constant Light Output (CLO) is optional, and can be used with or without Daylight Harvesting function

Daylight Harvest is optional, when in use, user can choose between HI or LO level of harvesting:

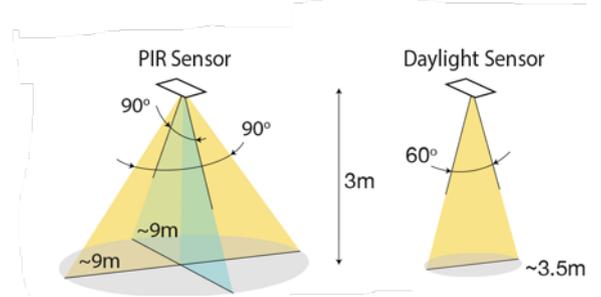
LO level allows the luminaire to fluctuate +/- 20% on its pre-set Lumen Level when reacting to surrounding daylight. This is setting reduces the disturbance cause by light fluctuation;

HI level allows the luminaire to fully benefit Daylight Harvesting, it will lower the luminaire light level to as low as 5% when there is sufficient daylight.

User is recommended to use a lux meter when setting Lumen Levels to ensure the target light level can be achieved.



Sensor Coverage



ITD-01005-USB-S01

For internally mount, connected with MicroUSB connector.



ITD-01005-USB-S02

For surface mount, connected with standard USB connector.



DSM-TOR-N01

Signal repeating torch. Learn ash signal from smartphone and repeat pattern to commission IntelliDim.



Compatible Driver

IntelliDim ready dimmable drivers connectable through USB connection.



ITD-01RES-STD-S01

Recessed ceiling mount.



Energys Group

Specialist in low carbon retrofit technologies

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