

Intelligent Lighting Control Module



Energy Conservation Solutions
'our promise, you'll save'



Intelligent Lighting Control Module
Designed to save Energy, Time and Money





INTRODUCTION

4, 6 and 8 channel (6 channel is plug and play) Intelligent Lighting Control Modules (iLCM's) are designed to provide flexible lighting control solutions, which save energy, time and money in a wide range of applications.



CDH4U5
4 Channel



CDW12U5
6 Channel



CDH8U5
8 Channel

APPLICATIONS

iLCM's provide flexible, programmable mapping of sensors and switch inputs to multiple switching and dimming outputs. Each iLCM operates either stand-alone or integrated with a networked Managed Lighting System (MLS). This flexibility makes it ideal for a vast range of applications including:

- Offices
- Classrooms
- Meeting rooms
- Conference rooms
- Hotel rooms
- Hospitals wards
- Factories
- Warehouses

INTELLIGENT LIGHTING CONTROL MODULE OFFERS:



Flexible system

- Controls all types of ballasts: 240V switching and DALI, DSI or 1-10V dimming
- Stand-alone or integrated into the MLS
- Low or high-level integration with AV systems
- Emergency lighting test mode



Quick and easy installation

- Colour coded pluggable connections for simple installation
- Quick programming of sophisticated lighting control strategies
- SELV occupancy sensor and volt-free switch inputs



Optimal energy savings

- Energy savings based on occupancy and daylight monitoring
- PIR or microwave motion sensors for optimal performance in all applications
- Independently control switching and dimming luminaires
- Volt-free output for HVAC or other 3rd party systems (8 channel variant)



Convenience for occupants

- Automatic partition/blind mode - ideal for flexible-use spaces
- Easy selection of lighting scenes



Future proof solution

- Easy field upgrading of any iLCM to dimming and/or MLS network capability
- Soft re-mapping or physically re-reporting of detectors, switches and luminaires



Manual control options

- Colour touch screens - 4.3" and 7"
- Scene select panels
- Standard bell press switch



Commissioning

- All program settings commissioned or altered in situ via wireless system using the QuickSet Pro programmer



BIM ready

- 3D modelling using Revit files



Offices

Classrooms

Meeting Rooms

Conference Rooms

Hotel Rooms

Hospitals

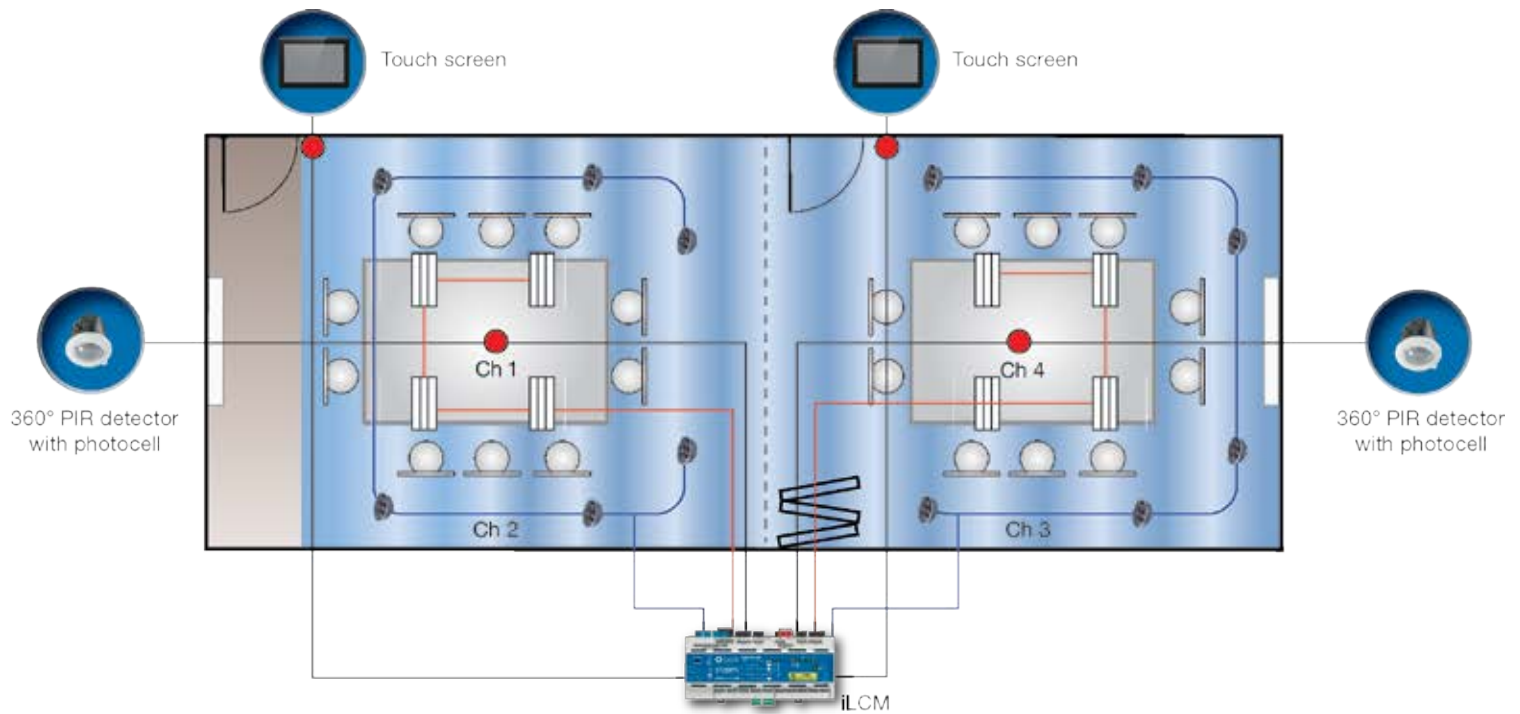
Corridors

Factories

Warehouses

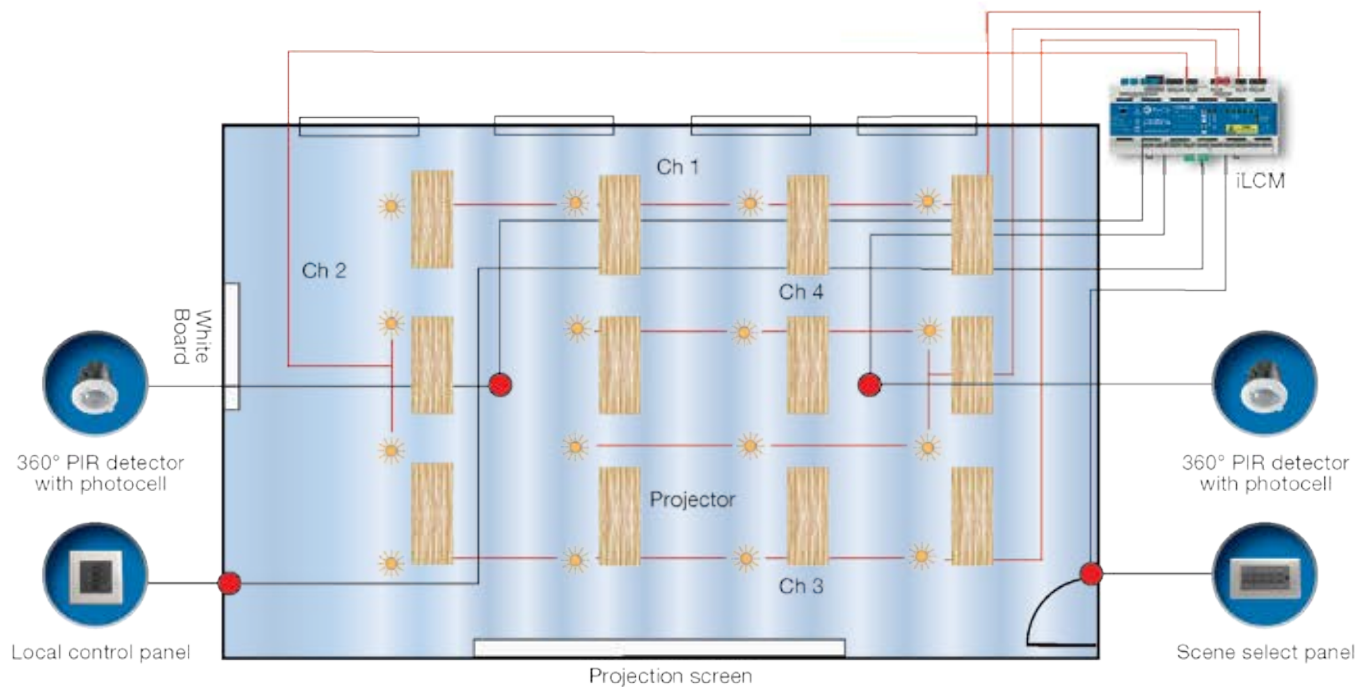
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APPLICATION EXAMPLE - CONFERENCE/MEETING ROOM



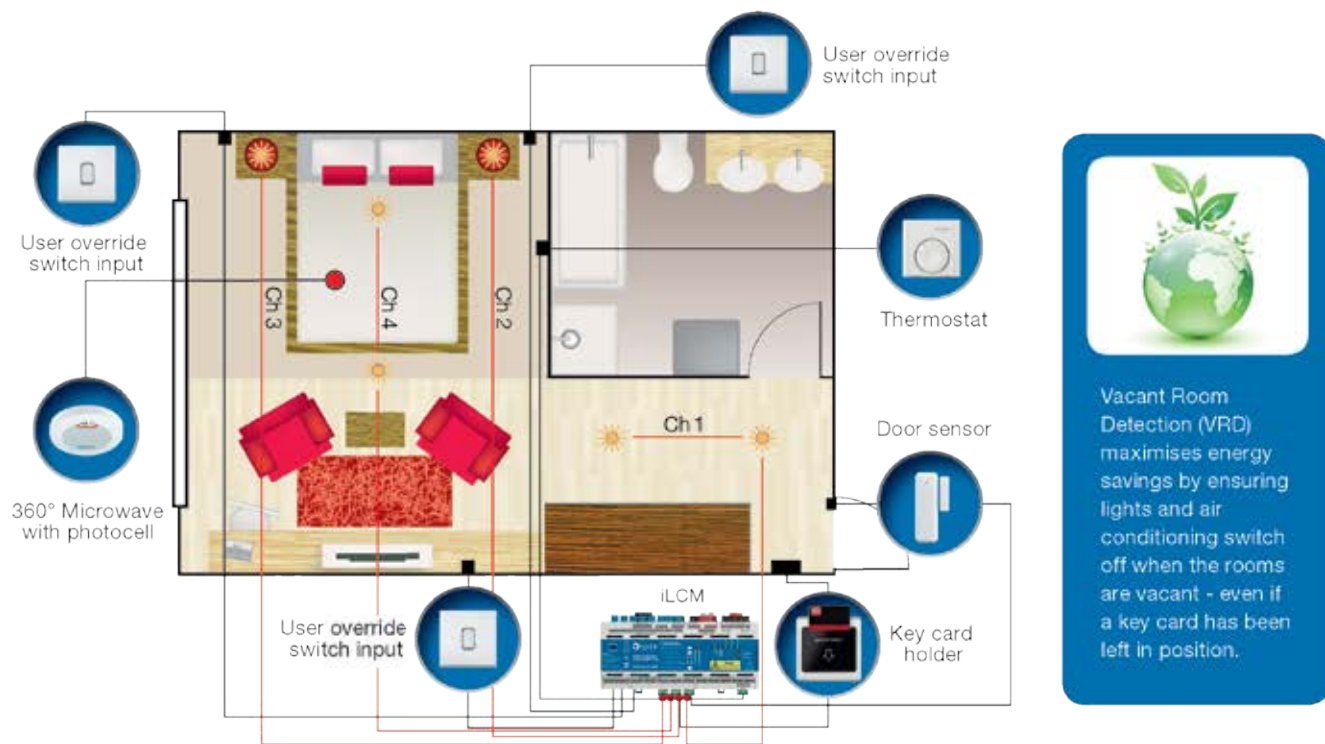
An 8 channel iLCM provides scene control to accommodate presentation, meeting or seminar scenarios. Additionally, partition and/or blind control can be used to combine or split two separate areas.

APPLICATION EXAMPLE - CLASS ROOM



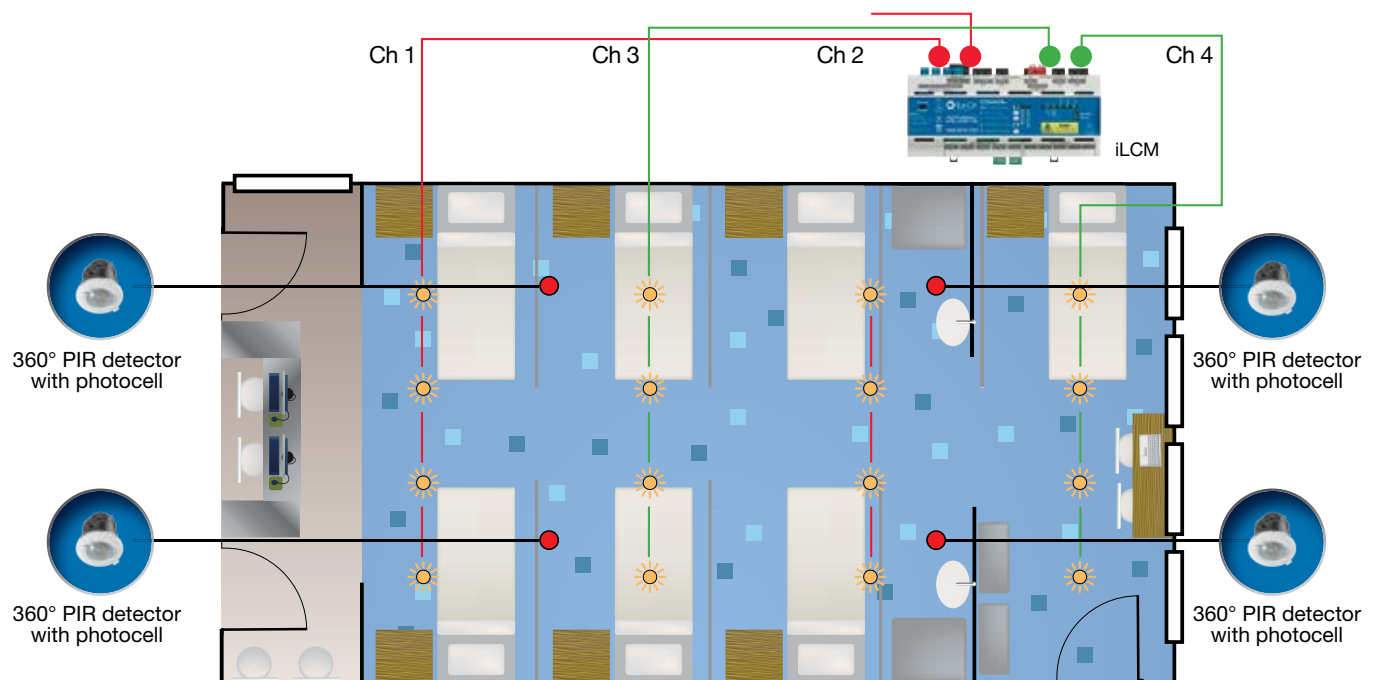
A 4 channel iLCM allows the call up of various scenes from the scene select panel (SSP) or local control panel (LCP). For example: turning off luminaires on channel 3 when presenting on the projector screen. Daylight harvesting could be programmed on channel 1 during normal class activity.

APPLICATION EXAMPLE - HOTEL ROOM



An 8 channel iLCM can enable lights and power during occupation, with manual switch override. All power loads, including AC can be switched off (via the auxiliary output) automatically when the room is unoccupied.

APPLICATION EXAMPLE - HOSPITAL WARDS



A 4 channel iLCM can control lights supplied from two different electrical sources. This is ideal when accommodating both essential and non-essential lights on a common iLCM channel.

iLCM PRODUCT RANGE



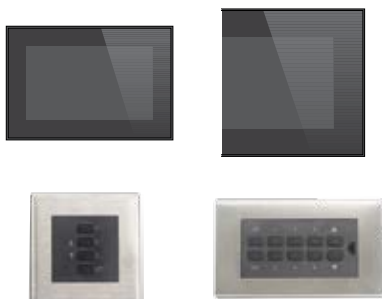
INTELLIGENT LIGHTING CONTROL MODULES

- 4, 6 and 8 output channel versions available
- Independent switching or dimming channels
- Channels can be combined into larger groups
- Low or high-level integration with AV systems
- 5 SELV PIR/Microwave sensor inputs
- Infra-red programming via QuickSet Pro
- Optional BUS communications interface
- Control over multiple circuits



iLCM SENSORS

- PIR and microwave motion sensing for extended sensitivity and coverage
- All sensors include photocells
- Available in surface and flush mounting
- Integral sensor for mounting in luminaires
- SELV connections via RJ45 patch leads
- Mid-bay and hi-bay versions available for mounting heights up to 16m



TOUCH SCREENS, SCENE SELECT AND LOCAL CONTROL PANEL

LCD colour touch screens (4.3" and 7.1"), scene select panels (SSP) and local control panels (LCP) options provide greater flexibility and choice. These allow for localised control over a group of luminaires for dim/brighten, switch on/off as well as scene control for meetings, presentations, etc.

iLCM PRODUCT RANGE

QUICKSET PRO

The QuickSet Pro programming/commissioning device makes it quick and easy to adjust or commission your system, make changes to the settings and add new devices.

- Auto software update
- Holds and stores data
- Pre-commission prior to visiting site
- Fully backwards compatible with all legacy products
- Localised commissioning
- Copy and paste function - copy from one sensor to another
- Allows the user to easily reprogram or adjust settings



MLS SYSTEM INTEGRATION

Intelligent Lighting Control Modules can be integrated into the Managed Lighting System via connection to an MLS BUS Controller

- Allows for testing and checking of the BUS integrity
- Linking iLCM's enables communications with other devices
- Lite version available for smaller installations



HIGH-LEVEL INTERFACING

The MLSUCA (up to 6 x RB2000) and MLSUCB (up to 13 x RB2000) provide browser-based graphical management and control of the MLS. A BACnet interface enables integration with Building Management Systems (BMS).

- Remote monitoring and control of the MLS lighting zones
- Programmable timed-event scheduling
- Browser-based user interface
- Real-time event control from the BMS
- Data sharing between the MLS and BMS enabling occupancy control of HVAC, load shedding, etc
- Remote scene-recall



PRODUCT SELECTOR

4 CHANNEL iLCM (HARD WIRED)	
PRODUCT CODE	DESCRIPTION

CDH4U5	4 channel hard wired iLCM - switching version
CDH4U5-***	4 channel hard wired iLCM - DSI, DALI, and 1-10V dimming versions
CDH4U5-B***	4 channel hard wired iLCM - DSI, DALI, and 1-10V dimming versions. MLS system compatible
CDH4U5-RB***	4 channel hard wired iLCM - DSI, DALI, and 1-10V dimming versions. Inbuilt MLS Bus Controller

6 CHANNEL iLCM (SOFT WIRED)	
PRODUCT CODE	DESCRIPTION

CDW12U5	6 channel soft wired iLCM - switching version
CDW12U5-***	6 channel soft wired iLCM - DSI, DALI, and 1-10V dimming versions
CDW12U5-B***	6 channel soft wired iLCM - DSI, DALI, and 1-10V dimming versions. MLS system compatible

8 CHANNEL iLCM (HARD WIRED)	
PRODUCT CODE	DESCRIPTION

CDH8U5	8 channel hard wired iLCM - switching version
CDH8U5-***	8 channel hard wired iLCM - DSI, DALI, and 1-10V dimming versions
CDH8U5-B***	8 channel hard wired iLCM - DSI, DALI, and 1-10V dimming versions. MLS system compatible
CDH8U5-RB***	8 channel hard wired iLCM - DSI, DALI, and 1-10V dimming versions. Inbuilt MLS Bus Controller

iLCM PIR SENSORS	
PRODUCT CODE	DESCRIPTION

MLS3000CDR	360° PIR sensor - surface or flush mount
MLS3003CDR	360° PIR sensor with tilting lens - surface or flush mount

iLCM MICROWAVE SENSORS	
PRODUCT CODE	DESCRIPTION

MLS2401CDR	360° microwave sensor - surface or flush mount
MLS2500CDR	Directional microwave sensor - surface or semi-flush mount

iLCM HIGH-MOUNTING PIR SENSORS	
PRODUCT CODE	DESCRIPTION

MLS3003CDRMB	360° mid-bay PIR sensor with tilting lens - surface or flush mount
MLS3003CDRHB	360° hi-bay PIR sensor with tilting lens - surface or flush mount

iLCM INTEGRAL SENSORS	
PRODUCT CODE	DESCRIPTION

DH	360° PIR sensor available in white or silver - control module required MLSM2002CDR
MLSM2002CDR	Control module for DH-W/S
MLSM2002CDRDHPB	360° PIR sensor c/w control module and plaster board mount kit - white
DHFK	Flush mounting kit for mini-head sensor - available in white, silver or black

iLCM CONTROL PANELS	
PRODUCT CODE	DESCRIPTION

TS4.3	4.3" touch screen - available in black or white
TS7	7" touch screen - available in black or white
RM4	4 pole relay module for TS series
RM6	6 pole relay module for TS series
RM8	8 pole relay module for TS series
MLS2000SSP	Scene select panel (cover plate required)
MSSP***	Cover plate for MLS2000SSP - brushed stainless steel, polished brass, white, polished chrome available
MLSLCP4	Lighting control panel (cover plate required)
MSS182***	Cover plate for MLSLCP4 - brushed stainless steel, polished brass, white, polished chrome available

iLCM SYSTEM COMPONENTS	
PRODUCT CODE	DESCRIPTION

RB2000	Bus Controller
RB2000LT	Bus Controller "Lite"

HIGH-LEVEL INTERFACING	
PRODUCT CODE	DESCRIPTION

MLSUCA	BACnet interface up to 6 RB2000
MLSUCB	BACnet interface up to 13 RB2000

iLCM PROGRAMMER AND CONTROLLER	
PRODUCT CODE	DESCRIPTION

QUICKSET PRO	Programmer
HC5A	Universal hand-held controller