



**KlikLink iPad App**  
Initial set-up & configuration

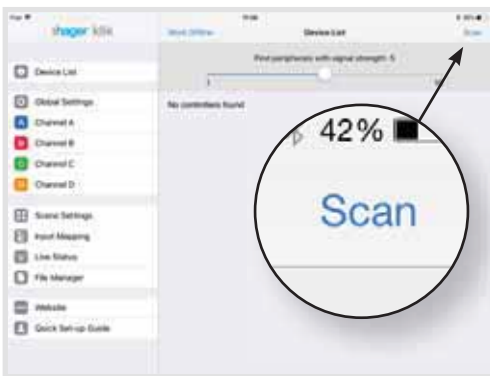
**Hager Ltd.**  
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**1. Finding an LCM**

Start the app and the following screen will be displayed. To connect to an LCM, tap **Scan** at the top right of the screen (must be within range). When the scan is complete, all LCM in range will be displayed. You can increase or reduce scan sensitivity using the slider.

Tap sync after each operation. You must re-scan if you can't connect or before you try to connect to a new box.



**2. Setting the Passcode**

Select the required LCM and the app will ask for a passcode. For a new Login Please enter the passcode device, enter 00000.

When connected to the device, the app will ask you to enter a new passcode (recommend use 'building passcode')

Enter a five digit alpha numeric code (case sensitive) of your choice (00000 cannot be used) and the live status will be displayed

Tap sync after each operation.



**3. Identifying the LCM**

After changing the passcode, select the Live Status screen. To check if you have identified the correct LCM, either switch a light ON/Off using the on/off toggle to confirm which device is connected.

Tap sync after each operation.

Tip: To save time it is often easier to commission or rename the box you find rather than the one you want. If you rename as you go it will make identifying each LCM easier.

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**4. Change the Device I.D.**

Before changing any channel settings, we first need to rename the LCM to indicate its location.

Tap **Device List** on the menu

Tap **Edit device name** to change the LCM device name

**Tip: Name the device with reference to the room/area/building.**

Tap sync after each operation.



**5. Setting DSI or DALI**

If digital lighting is used, set DSI or DALI, if not go to instruction 6. Tap **Global Settings** on the menu to select **DSI** or **DALI**.

Tap sync after each operation.



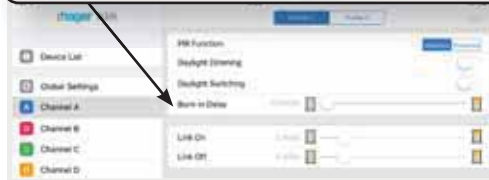
**6. Setting Burn in Delay (If required)**

Only applicable for dimmable luminaires. To allow for automatic lamp burn-in as recommend by the lamp manufacturers, this function prevents the output from being dimmed until this timer reaches 0. When 0 is reached then the dimming functions are reinstated. The timer can be set from 0 to 250 hours. The timer starts time once switched on.

In each channel, set the slider to the required number of hours and tap **sync**.

Go to 'Live Status', and in the required channel, tap 'Reset' adjacent to 'Burn-in' to start the burn-in timer. Repeat for each channel.

Tap sync after each operation.



**7. Selecting Standard 'room' profiles.**

If required, a number of standard profiles are available to assign to the In File Manager. Select the profile from the list that matches the application. e.g. "Class Room"

These can be used as they are or as a basis for you to modify to your requirements. Project specific profiles can be saved in advance of commissioning, reducing on-site time.

Tap sync after each operation.



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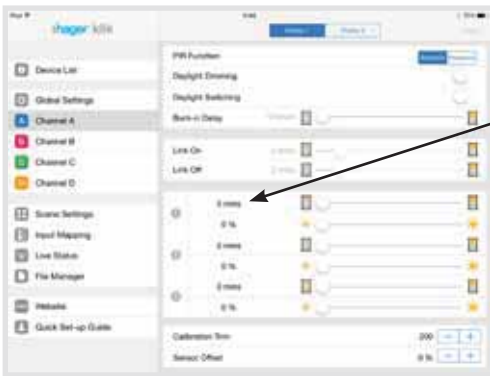
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**8. Assigning switch/sensor inputs.**

Tap Input Mapping (Profile 1) to assign each active Channel a switch/s (if applicable) and/or occupancy sensor and light sensor input to control the outputs associated with each channel. Tap on the number and it will change to blue when selected.

- Up to 4 switch inputs can be assigned to each channel
- Up to 4 Occupancy Sensor inputs can be assigned to each channel
- Only 1 light sensor input can be assigned to each channel



**9. If no sensors fitted**

If the application has no occupancy sensors installed (if using switch only control, or prior to occupancy sensors being fitted/ connected) and to ensure the luminaires stay on, the sensor timeout timers must be set to zero. Go to the channel screen A, B, C & D.

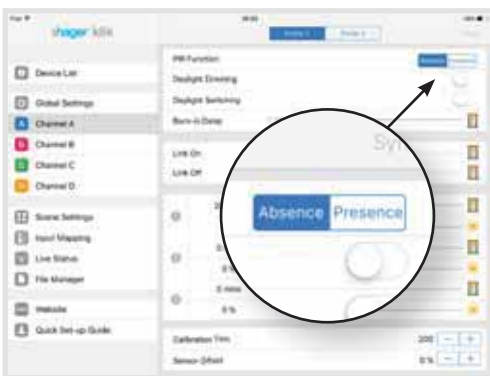
Tap sync after each operation.

**10. Presence and Absence**

When set to Presence, the lights will come on upon entering the room (auto on). The lights will remain on if occupied and switch off automatically if unoccupied when the sensor time out is reached (e.g. 20mins) and then switch off (auto off).

When set to Absence, the lights are switched on manually with a wall switch input (manual on). The lights will remain on if occupied and switch off automatically if unoccupied when the sensor time out is reached (e.g. 20mins) and then switch off (auto off)

**Scheduler:** The scheduler is used to enable different profiles within daytime or evening time periods, changing profiles to suite the clients needs e.g 9 - 5 - Lights on as normal, 5 - 9 lights dimmed to predefined level.



**11. Setting the PIR Function**

Tap **Channel A** (Directly beneath Global Settings in the menu) to set the parameters for this channel.

Select the required **PIR Function** - Absence or Presence. If selecting absence, a switch must be installed.

Repeat for channels **B, C, D** as required.

Tap sync after each operation.

Initial setup is now complete. Advanced setup can now be completed.

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**12. PIR Walk Testing.**

Tap Live Status. Whilst viewing the screen, conduct a walk test.

Each PIR Trigger will change from grey to either green for presence or red for absence.

**Note: The 'PIR Trigger' indicator does not show assignment to the channel, just the operation and function. Assignment is carried out in Input Mapping.**



**13. Setting PIR Time Out.**

Up to three timers can be used to provide 'Stepped Timeout'. Each timer can be set between 0 and 60 minutes with a dim level of between 0% & 100%.

To set a stepped timeout set the desired timeout in timer 1 along with a dim value, then set timer 2 again with a dim value, then finally set timer 3 with a final value. If timer 1 is set to 0 the timers will be disabled and the lights will only switch off manually.



**14. Light Level Calibration.**

Tap on **Live Status** to manually adjust each channel to the required visual light level. A light meter is recommended for this to establish actual levels.

When required level is reached, tap **Calibrate**.

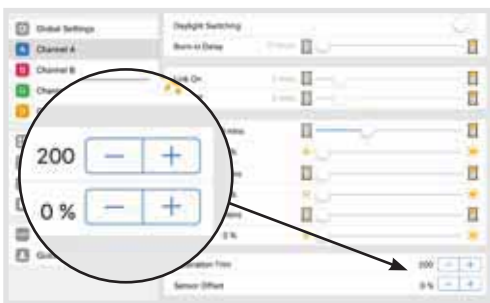
if one sensor is to be used to control more than one channel, then each channel needs to be calibrated individually. repeat this for each channel.

a. Tap on + or - to manually adjust each channel to the required light level.

b. When required lux level is reached, tap **calibrate**. The lux level displayed is the level of lux at the sensor. If a measured light level is required, a light meter should used.

**Note: If one sensor is to be used to control more than one channel, then each channel needs to be calibrated individually. Repeat this for each channel used.**

**Note: Daylight Dimming must not be active when calibrating the light level.**



**15. Setting the Calibration Trim**

After the light output is set it can be easily altered, trimming the level either up or down using + or -.

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**16. Setting Daylight Dimming**

To make the most of natural light and save energy, the **Daylight Dimming** function provides an automatic constant light level, with lux level fed from the light sensor in the occupancy sensor.

Each Channel (A, B, C, D) is set-up independently, depending on whether the outputs on the channel are required to dim when natural light is available.

For each of the channels requiring daylight dimming, the lux level signal is supplied from one light sensor.

Tap sync after each operation.

Multiple light sensor inputs are not possible. The light sensor is assigned in the input mapping screen.

**Tip: The level is set in the Live Status screen with Daylight Dimming turned off. When the required level is set, turn on Daylight Dimming.**



**17. Setting Daylight Switching**

This function will switch the light off when there is a sufficient level of natural light available and switch the light on when the natural light level drops below a predefined level. This function can be used in conjunction with the **Daylight Dimming** function and is completed in the channel.

When Daylight Switching is active, the lux level in Live Status screen is displayed as **LO, OK** or **HI**.  
**LO** - is equal or less than the calibrated level;  
**HI** - is anything over 150% of the calibrated level  
**OK** - is anything between the calibrated level and 150% above the calibrated level.

e.g. if the level is 500 Lux, then LO = 0-499 Lux, OK = 500 - 1250 Lux and HI = 1251 Lux and above.

Manual dimming overrides the daylight dimming until it is reset (turn lights off and on again).



**18. Link On and Link Off**

This function sets the on/off delay for Daylight Switching, the Link On setting sets the time to wait to switch the light on once the sensor detects the light level as become lower than the set threshold, while link off sets the time to wait to switch the lights off when the sensor detects the light level as become higher than 150% above the set threshold.

Recommended link times are: 2 minutes 'on', 10 minutes 'off'.

**19. Scene Setting**

The 4 Scenes are pre-set. Switch Drop lead connections are as follows:

Tap on **Scene Settings** and you are then able to set up to 4 scenes, each one with the ability to set each channel level.

When a switch is selected in **Input Mapping**, and the relevant wires connected to a retractive switch these scenes will be available and can be applied to any or all of the channels.

All 4 channels appear in the 4 scene groups. A retractive switch or push button needs to be connected to the scene input cable to utilise the scene setting.

**Note: When a scene is switched on, the occupancy sensor is disabled. the scene must be switched off or on to exit the scene and allow the occupancy sensor to operate.**



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**20. Setting the Sensor Offset**

When one output is set for daylight dimming other outputs can be set to track the dimming output with an offset. For example a window row is dimmed and the next row to maintained at a output 20% higher.

**21. Emergency test settings (KLCM412P, KLCM413W)**

There are three emergency timers available that can be set independently.

**Examples**

Timer 1: Functional test.  
Timer 2: 3 Hour duration test.

During the test the timers can be set to be;

Lights off during testing  
Lights dimmed during testing  
Lights left on during testing.

**22. Corridor Hold**

This is achieved by linking a series of LCMs together with an RJ45 lead and assigning certain channels with the attributes of a corridor. If there is any area occupied, the associated corridor lighting will be held ON.

Enable **Corridor Hold** function on the slider in **Global Settings**. For the LCM that controls the room/office space, tap the channel/s that you want to control the corridor hold and select **OUT** (this is the output or master LCM)

For the LCM that controls the corridor, tap the channel/s the corridor is linked to and select **IN** (this is the input or the slave LCM channel)



**23. Partition Switching**

This allows the control of a room with a partition and switch fitted. If a partitioned room has individual wall switches controlling each section, when the partition is removed, both sets of switches could control the whole area. This can be used in conjunction with profiles 1 & 2 in input mapping.

Enable Partition Switch function on the slider in global settings. Select the switch input that is connected to partition switch 1.

When the partition is in place, each side of the room can be controlled independently by one of the remaining switch inputs (e.g. Switch input 2 for one side and switch input 3 for the other side).

When the partition switch is activated (partition open) all the lighting is then controlled together (e.g. On/Off/Dim) by either switch input 2 or switch input 3)



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**Switch not switching On/Off as expected**

Log onto LCM with App, go to Status and check operation of the input. i.e if when pressed S3 appears then switch is wired wrong, If E appears then it is connected to the Emergency test Socket.

If it appears to do nothing then switch the relevant light On by the App and try and switch it off by the switch and vice versa. If only On or Off works then broken wire at switch is most likely.

If the switch does nothing then common (Brown) is likely not connected.

If switch wiring looks correct to guide and RJ45 cable not supplied by Hager then check connections at RJ45 Plug. See instructions **ZD0782** for further details.

**DALI Lights not switching off or dimming**

Check Ballast for DALI logo - note if it is a Tridonic Ballast then it will work either DSI or DALI. DSI is only available in Tridonic devices, no other manufacture supplies DSI.

Check App shows output switching and dimming

Is it one output only or more? If one disconnect all the lights from the channel and connect one from a working channel. If it does not work then faulty LCM.

If it does work then disconnect and connect other lights until faulty light is identified, one light with a mis-wire can render all lights on the output as not working

**DALI Lights only switch On/Off**

Check lead is correct and has 5 cores and wired as indicated on label

**DALI lights flashing when dimmed**

Check for DALI logo on ballast, this could be a sign of 1-10V ballasts fitted and will not work with the LCM

**Light does not work or switch on**

Check is it one light or a group of lights. If one light then probability is a faulty light fitting, if a small group of lights (2 - 4) then see above, if a larger group of lights, up to 13 then check Sensor for a flashing LED. If yes then fault likely to be with LCM, if not then check power to LCM.

Note: Some LED lights have a thermal shutdown circuit that if they over heat will switch off. If this happens then the light will recover after cooling down. If this happens check environment around luminaire for heat or refers to light manufacturer.

**Scene Set and lights go to another level after being dimmed.**

Check with manual dimming from App, if still changes after dimming ballast has been programmed and needs resetting, this is likely to be random lights, consult lighting supplier.

**Lights not switching off from PIR**

Check timer is not set to 0, Check Status with App when out of range of sensor and PIR Indicator should not be active. If it is then replace PIR

**Lights not switching on from PIR**

Check channel is not set to Absence.

Check Daylight Switching is not active (not applicable to dimmable lights).

Check lights are not On but dim.

Check PIR is mapped to correct output(s).

**Corridor Hold Testing**

At the Corridor LCM, disable any PIR's (unplug or in app), go to Live Status Screen and watch timers, with movement at any of the LCM's set as Area the timers should not go down, this saves waiting for the full timeout

**Emergency Test**

Test Duration not long enough, check Emergency Test Timers in App. There are three timers each with it's own dedicated input.

The options during Emergency Light Test is Off or On at any required % level (note if lights are set to be On during test then they will be switched On if Off. At the end of test all lights will switch Off and the LCM will reset and PIR's etc will re-activate the lighting where occupied.

If key switch does not work check wiring, normally Brown (common) and Blue is used.

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