

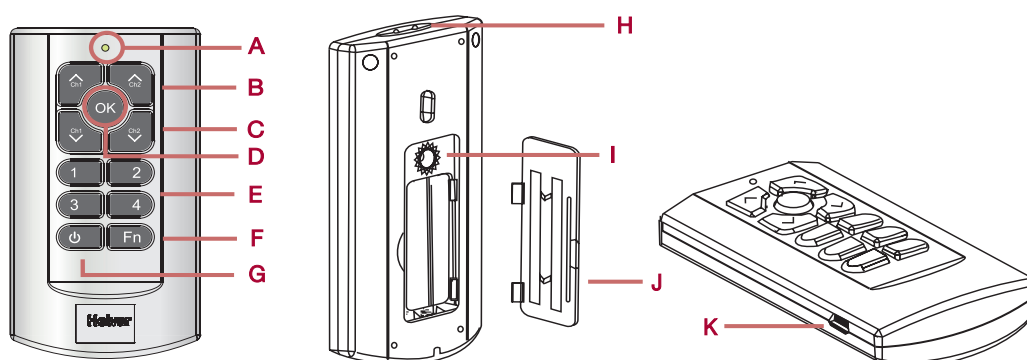
iDIM Remote Control (304)

Product description

The iDim Remote Control (304) can be used with the iDim Sense Standalone to modify the preset light levels and recall/store scenes, as well as to activate special functions (100-h Burn-In, PIR Walk test and Mode Identification).

Combined with iDim Studio, the 304 iDim Remote can provide further advanced configuration. Please see document iDim Studio Help or iDim User Manual (D004735) for further information.

Note: Throughout this document, 'Controller' refers to iDim Sense and/or DIGIDIM Button Panels.



- | | | |
|--|---------------------------------------|----------------------------|
| A. LED indicator (Flashes when comms transfer is in progress and when buttons pressed) | D. OK key | I. Mode selection button |
| B. Up modifier | E. 1 – 4 Scene Recall / Configuration | J. Battery cover |
| C. Down modifier | F. Function key (Fn) | K. USB connection (Mini B) |
| | G. Lights off () | |
| | H. Transmitter | |

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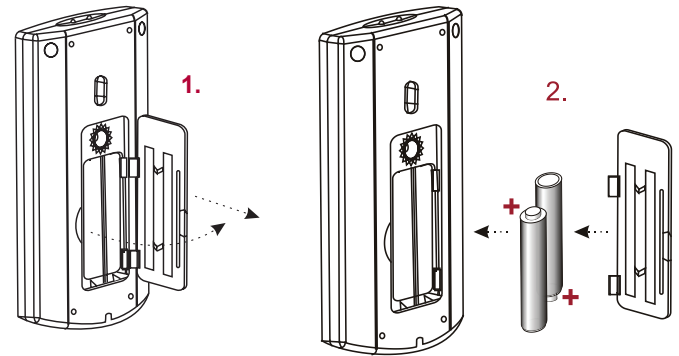
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Add / Remove Batteries

To add or remove batteries:

1. Unclip the battery cover on the reverse of the remote.
2. Add batteries, observing correct polarity and replace cover.

Note: Batteries not required if running iDim Remote Control through a PC via USB cable.



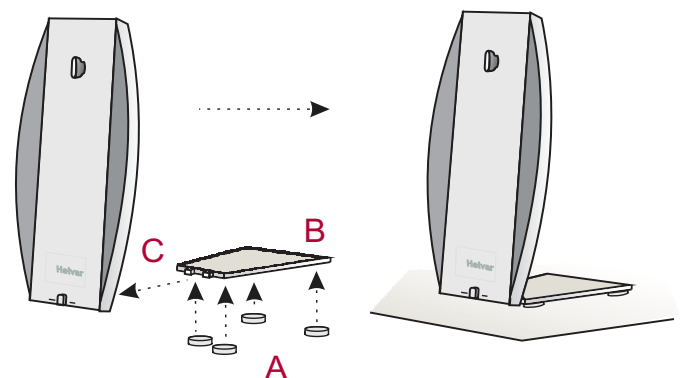
Assemble iDim Remote Cradle for Desktop Use

To assemble the iDim Remote Cradle for desktop use:

1. Attach rubber feet A to base B.
2. Insert base B into recess C on the reverse of the cradle until it clicks.

To disassemble the iDim Remote Cradle (not shown):

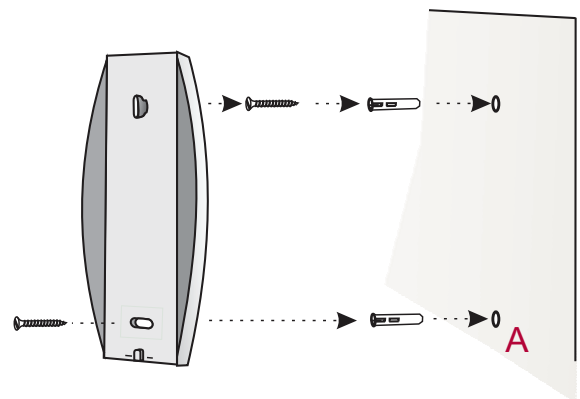
Insert flat head screwdriver into recess C and gently lever base A away from the cradle to avoid the unit being damaged.



Setup iDim Remote Cradle for Wall Attachment

To mount the iDim Remote Cradle to a wall:

1. Drill and insert screw to chosen mounting location. Leave approx 1 mm between screw head and wall to allow cradle to sit comfortably on screw.
2. Carefully slide the cradle onto the screw adjusting screw tightness as required.
3. With cradle still wall mounted, mark hole A on the wall.
4. Remove cradle, drill second hole and apply wall plug.
5. Slide cradle back on to wall and insert bottom screw. Tighten screw as needed.

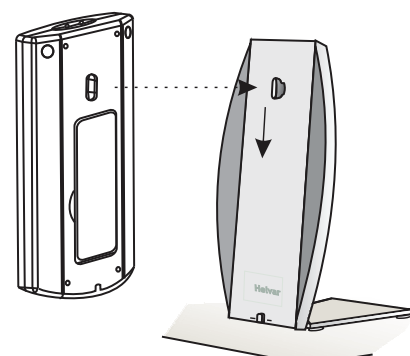


Attach iDim Remote to Cradle

To attach the iDim Remote to the remote cradle:

1. Place iDim Remote onto cradle mounting point.
2. Push iDim Remote downwards until it clicks, holding the unit in place.

Note: Remove the iDim remote by following the above procedure in reverse.



Connecting the iDim Remote to your PC

Note 1: The iDim Remote only needs to be connected to a PC if you want to set advanced configuration settings via your PC.

The remote will work without iDim Studio.

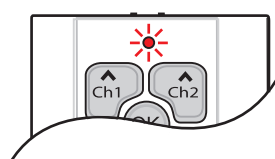
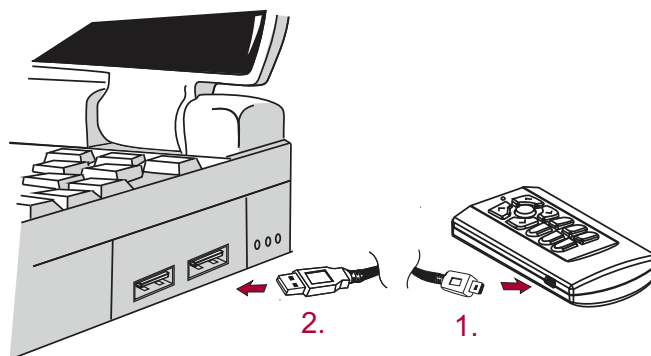
Note 2: To download iDim Studio please visit www.helvar.com

To connect the iDim Remote to your PC:

1. Attach Mini USB connector to iDim remote.
2. Connect the opposite end of the USB cable to the USB port of the PC. The new device will be automatically recognised.
3. Run iDim Studio (if installed)

While using iDim Studio software, the iDim Remote LED flashes red when device communication is in progress.

Do not disconnect the iDim Remote from PC during this time.




Do NOT disconnect iDim Remote when the LED is flashing red.

Switching Lights On / Recall Scenes using iDim Remote

To switch lights on / recall a scene using the iDim remote:

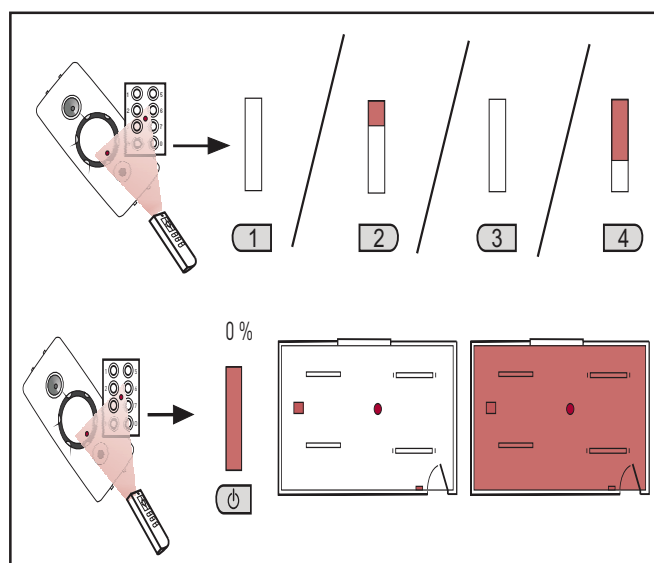
1. Point the remote at a controller. Point the remote at a controller
2. Press scene key 1, 2, 3 or 4 to recall the required scene.

To switch lights off:

1. Point the remote at a controller.
2. Press  key on remote control to switch the lights off.

When lights are switched off via a remote, switch or panel; a 90-second exit delay will start. During this time any PIR movement will extend the delay.

The exit delay will be cancelled when a new scene is manually selected.



Modify Light Levels using iDim Remote

DALI 1 and DALI 2 scenes operate as a combination of Constant Light (CL), Fixed Light (FL) and Offset dependent on which of the 6 iDim modes that an iDim Sense is in and the scene selected. It is possible to modify the DALI 1 and DALI 2 levels using the iDim Remote. The adjusted levels will only be temporary unless they are stored into the already selected scene.

For example:

- If DALI 1 is a Constant Light Scene then modifying the levels will cause the Constant Light target level to be modified.
- If DALI 1 is a Fixed Light scene then the Fixed Light level will be modified.
- If operating in Constant Light + Offset mode, the DALI 2 level will also be affected if DALI1 is modified.

Please refer to table 1 overleaf for default DALI 1 and 2 scene setup for each iDim mode.







Other advanced configuration such as configuring the bright out level is only possible using the iDim Studio software.

Modify Light Levels using iDim Remote

When modifying the constant light target levels for your system, please ensure that the process is done in a darkened room or during dusk, as excessive natural light may result in levels being recorded by the sensor that are not actually achievable.

Table 1: Default DALI 1 and DALI 2 Constant Light, Fixed Light and Offset configuration for the six default iDim modes.

In this table, 'iDim Controller' refers to iDim Remote, Switches and Panels unless specified.

		1 	2 	3 	4 	5 	6 
		CLASSROOM	SINGLE OFFICE	OPEN-PLAN OFFICE	CORRIDOR LINK	CORRIDOR HOLD	MEETING ROOM
iDim Controller Scene 1	DALI 1	CL	CL	CL	FL (100 %)	CL	CL
	DALI 2	Offset	Offset	Offset	FL (100 %)	Link to corridor ¹	See notes below ²
iDim Controller Scene 2	DALI 1	CL	CL	CL	FL (70 %)	CL	-
	DALI 2	Offset	Offset	Offset	FL (70 %)	Link to corridor ¹	FL (100 %)
iDim Controller Scene 3	DALI 1	FL (100 %)	FL (100 %)	FL (100 %)	FL (40 %)	FL (100 %)	-
	DALI 2	FL (100 %)	FL (100 %)	FL (100 %)	FL (40 %)	Link to corridor ¹	FL (0 %)
iDim Controller Scene 4	DALI 1	FL (40 %)	FL (40 %)	FL (40 %)	FL (10 %)	FL (40 %)	FL (40 %)
	DALI 2	FL (40 %)	FL (400 %)	FL (40 %)	FL (10 %)	Link to corridor ¹	FL (20 %)

Note 1: In Corridor Hold (iDim Mode 5), DALI 2 is only used to connect an office to the corridor.

Note 2: In Meeting Room (iDim Mode 6), iDim Solo SW1 input operates DALI 1 CL / Off and SW2 input operates DALI 2 FL (100 %) / Off; as SW1 is located at the entrance of a room, switching off SW1 will cause both DALI 1 and DALI 2 circuits to go off.

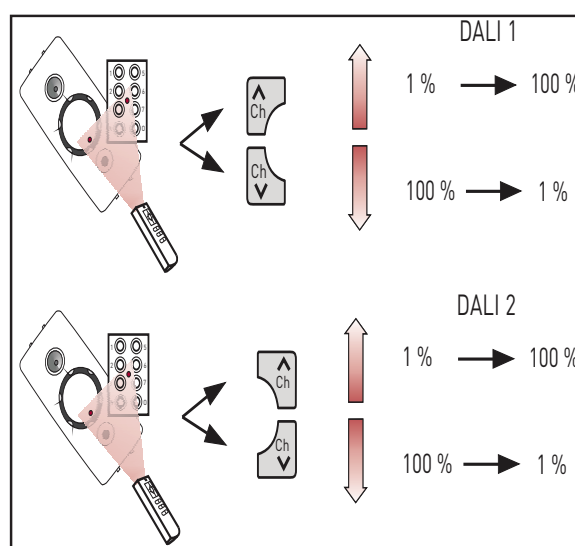
To modify light levels using the iDim remote:

1. Point the remote at a controller.
2. Select the scene that you want to modify.
3. Press DALI 1 modifier key up to raise DALI 1 light level.
4. Press DALI 1 modifier key down to lower DALI 1 light level.
5. Press DALI 2 modifier key up to raise DALI 2 light level.
6. Press DALI 2 modifier key down to lower DALI 2 light level.

Note 1: If you intend to store the modified levels, ensure that the required scene number is selected before modifying.

Note 2: Scene 1 is the default 'on' scene selected by PIR movement and Solo SW1 and SW2.

Note 3: When operating in Constant light + Offset mode, the DALI 1 and DALI 2 levels will both adjust together.



Stores Scenes using iDim Remote

To store a modified scene using the iDim remote:

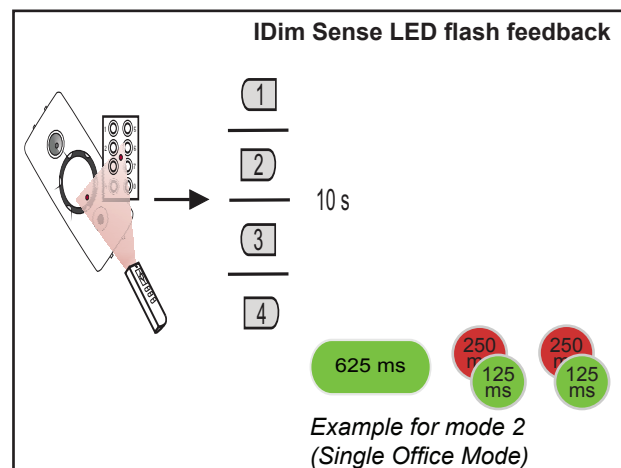
1. Point the remote at a controller.
2. Hold scene key 1, 2, 3 or 4 for 10 seconds to store scene.

iDim Sense LEDs will flash green if scene successfully stored.

The iDim mode will then flash the iDim mode number red / green to signify that the iDim Sense is in User Defined mode.

Note: Mode flash will only occur when storing scenes for the first time. Further scenes stores will only activate green scene store LED.

To exit User Defined mode and reset the iDim Sense to default mode settings, the iDim Remote Control must be in 'special function mode'. Please see chapter below for more information.



Special Functions using iDim Remote

It is possible to make the iDim Remote perform advanced tasks to assist commissioning and system testing. The iDim Remote uses a 'special function mode' where these advanced tasks can be configured. This mode must be activated before a special function or test is run. This avoids accidental configuration changes or tests being run which could cause the light levels or scenes to be altered unintentionally.

Please see below for activating and deactivating special function mode. See pages 7 - 8 for the types of special functions possible.

To activate special function mode:

1. Remove the battery cover from the remote control.
2. Using a pen (or other long blunt object), press mode selector button on the reverse of the iDim Remote for 3 seconds.

Special function mode is now active.

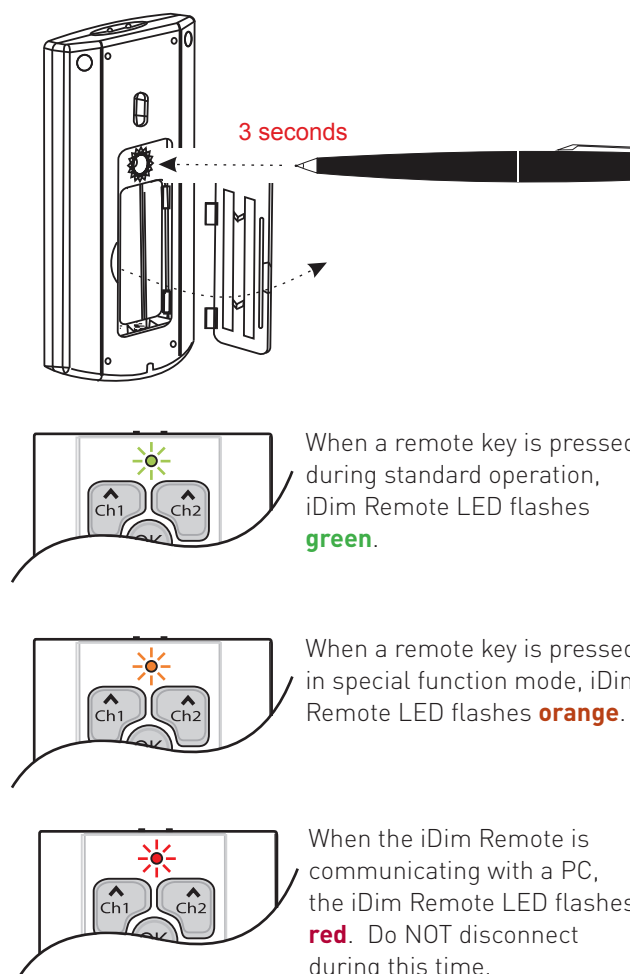
3. Check that the iDim Remote is in special function mode by recalling a scene. The iDim Remote LED will flash orange when a function (i.e. Scene recall) is performed.
4. Run the special functions that you require. (See pages 7 and 8 for special functions)

Note 1: All standard operation settings, such as scene recall, modify and store scene, are still possible when the iDim Remote is in special function mode.

Note 2: Once special function mode is activated, it will remain so until it is manually deactivated.

To deactivate special function mode:

1. Hold the mode selector button for 1 second to return to standard operation. Special function mode is now deactivated.
2. Check that the iDim Remote is in standard operating mode by recalling a scene on the remote. The iDim Remote LED should flash green when scene recall is called.



Special Functions using iDim Remote (cont.)

Start/Stop 100-hour Burn-In Mode

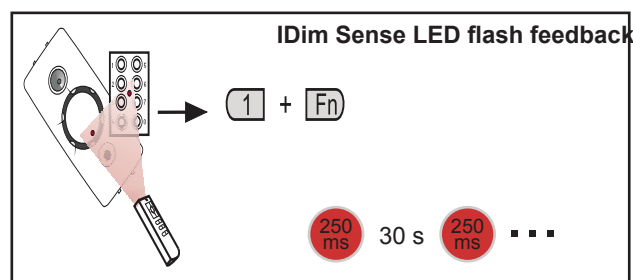
To start or stop Burn-In mode:

1. Ensure the iDim Remote is in special function mode.
2. Point the remote at a controller.
3. Press Fn key and scene 1 at same time.

Lights will blink 4 times and then go to 100 %. The 100-hour Burn-In counter will begin.

4. To stop Burn-In mode, press Fn key and scene 1.

Note: Restarting a Burn-In test following a stop will cause the 100-hour Burn-In time to be reset. Use Resume Burn-In Mode to continue a stopped Burn-In test.



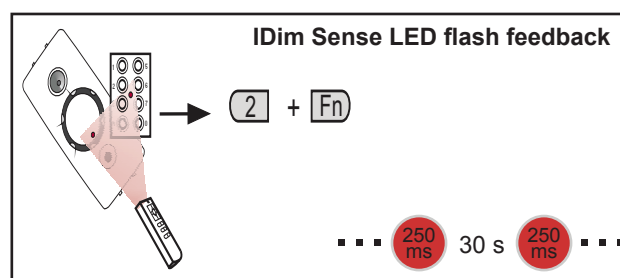
Resume Burn-In Mode

To resume a stopped Burn-In mode:

1. Ensure the iDim Remote is in special function mode.
2. Point the remote at a controller.
3. Press Fn key and scene 2 at the same time.

Lights blink 4 times and go to 100 % if Burn-In counter is not at zero.

Note: If a Power Off / On cycle occurs, the Burn-In time will be reset to 100 hours.

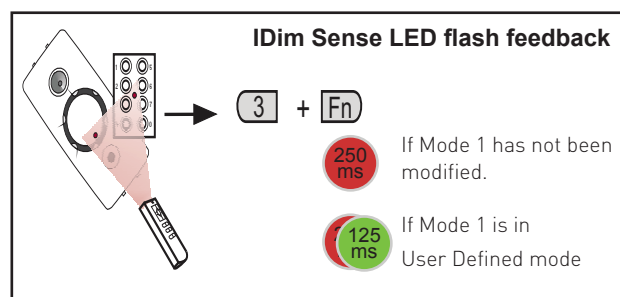


Mode Identification

To establish which iDim mode is selected:

1. Ensure the iDim Remote is in special function mode.
 2. Point the remote at a controller.
 3. Press Fn key and scene 3 at the same time.
- iDim Sense LEDs will flash the current mode.

Note: Number and type of flashes depends on mode selected and if the iDim Sense is in User Defined mode.

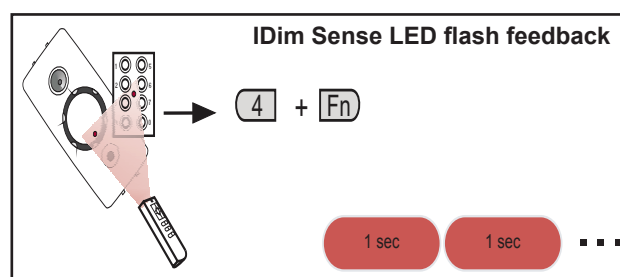


Start/Stop PIR Walk Test

To start/stop PIR Walk test:

1. Ensure the iDim Remote is in special function mode.
2. Point the remote at a controller.
3. Press Fn key and scene 4 at the same time.

iDim Sense will flash then wait for 10 s before looking for movement. When movement is detected: lights will go on for 5 s; to transition level for 5 s, off for 5 s and then return to the currently selected mode.

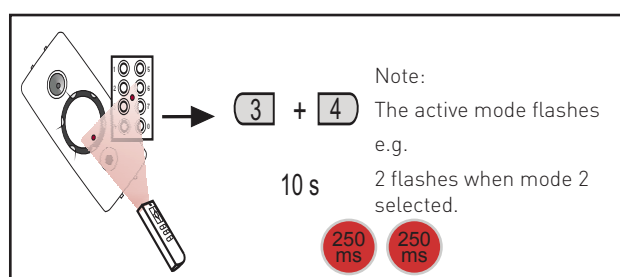


Reset Mode

To reset a controller to factory default settings:

1. Ensure the iDim Remote is in special function mode.
2. Point the remote at a controller.
3. Press and hold key 3 and 4 at same time for 10 s.

Note: Lights will behave in the same manner as when powered up for the first time in the mode currently selected.

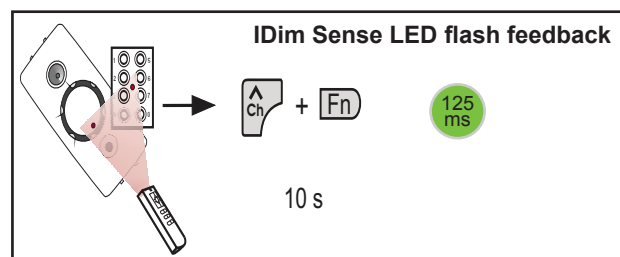


Special Functions using iDim Remote

Enable IR Receiver

To enable the Infrared receiver of a controller:

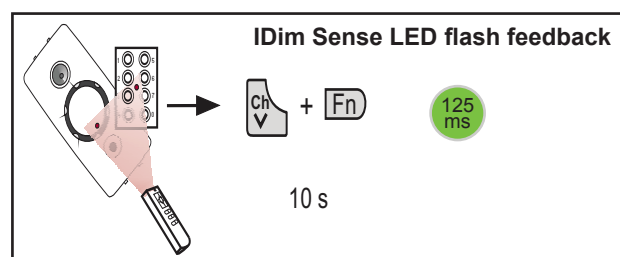
1. Ensure the iDim Remote is in special function mode.
2. Point the remote at a controller.
3. Press and hold DALI 1 modifier up and Fn key at the same time for 10 seconds.



Disable IR Receiver

To disable the Infrared receiver of a controller:

1. Ensure the iDim Remote is in special function mode.
2. Point the remote at a controller.
3. Press and hold DALI 1 modifier down and Fn key at the same time for 10 seconds.

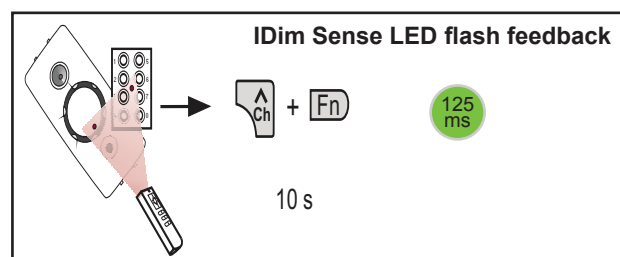


Lock iDim Sense Mode Selector Ring

To lock the mode selector ring of an iDim Sense:

1. Ensure the iDim Remote is in special function mode.
2. Point the remote at the iDim Sense you wish to lock.
3. Press and hold DALI 2 modifier up and Fn key at the same time for 10 seconds.

Note: When locked, the iDim Sense mode selector ring can still be manually turned. However, the modes will be ignored unless the mode selector ring is unlocked.

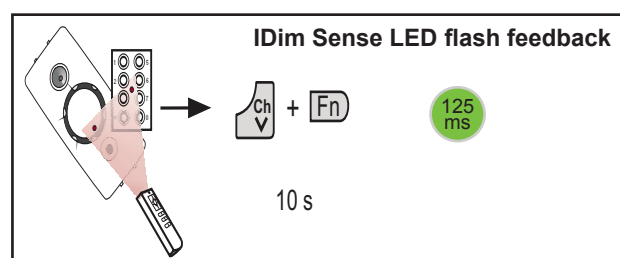


Unlock iDim Sense Mode Selector Ring

To unlock the mode selector ring of an iDim Sense:

1. Ensure the iDim Remote is in special function mode.
2. Point the remote at the iDim Sense you wish to unlock.
3. Press and hold DALI 2 modifier down and Fn key at the same time for 10 seconds.

Note: iDim Sense will remain in the selected mode (and in user defined mode where applicable) until the mode selector ring is turned again.



Advanced Configuration with iDim Studio Software

Note: All standard operation settings such as scene recall, modify and store scene are still possible when the iDim Remote is in *special function mode*.

Transfer settings to iDim Sense using iDimRemote

To transfer settings to iDim Sense using iDim Remote:

1. Ensure the iDim Remote is in special function mode.
2. Point the remote at a controller.
3. Press OK and Fn key at same time.



iDim Sense LED Flash Feedback

Two LEDs, red and green, in the iDim Sense flash to provide visual feedback, for various states and operations.

Function	LED flash feedback	
	Mode unmodified (default mode)	User defined mode selected*
Mode 1 Selected (Classroom mode)		
Mode 2 Selected (Single Office mode)	 	 
Mode 3 Selected (Open Plan mode)	  	  
Mode 4 Selected (Corridor Link mode)	   	   
Mode 5 Selected (Corridor Hold mode)	    	    
Mode 6 Selected (Meeting Room mode)	     	     
PIR Walk Test Mode Sequence repeats until walk test is complete.	   ...	
100-hour Burn-In Mode Sequence repeats until burn-in is complete.	 30 seconds  30 seconds  ...	
DALI Errors Sequence repeats until error clears.	      ...	
Change from unoccupied to occupied Typically follows a PIR detection.		
Data received from IR Remote		
Enabling / Disabling of IR Receiver		
Successful Scene Store		
Failed Scene Store		
Successful Upload from IR Remote	    	
Failed Upload from IR Remote	    	

Note: iDim Sense LED feedback flashes apply to all iDim units of v5.3 and onwards

* To leave User Defined mode and reset iDim Sense to default settings at any time, hold button 3 + 4 on the iDim Remote Control for 10 seconds while the remote is in 'Special function mode'. See page 6 – 8 for information.

Technical Data

Connections

PC to remote: USB 2.0 A Cable to Mini B Cable

Power

Power supply: 2 × AAA (LR03) 1.5 V batteries

Range

Operating range: Approx. 10 m

Operating frequency: 36 kHz

Remote control functions

Infrared remote control: Modify preset light levels
(Constant light or fixed light);
Scene store and recall;
Activate special test functions

Mechanical data

Dimensions: 59 mm × 21 mm × 110 mm

Material (housing): Non-flammable polycarbonate,
halogen free

Colour (housing): Traffic White (RAL 9016)

Weight: 40 g

Bracket screws: 2 × No 6 – 3/4" (3.5 mm × 20 mm)
pan pozi head screws

Operating conditions

Ambient temperature: 0 °C to +40 °C

Relative humidity: Max. 90 %, non-condensing

Storage temperature: –10 °C to +70 °C

Conformity and standards

EMC emission: EN 61000–6–3

EMC immunity: EN 61006–1

Safety: EN 60950–1

Environment: Complies with WEEE and RoHS
directives