


**HDL<sup>®</sup>**



**DALI Scene Controller  
HDL-MC64-DALI.431**

# DALI Introduction

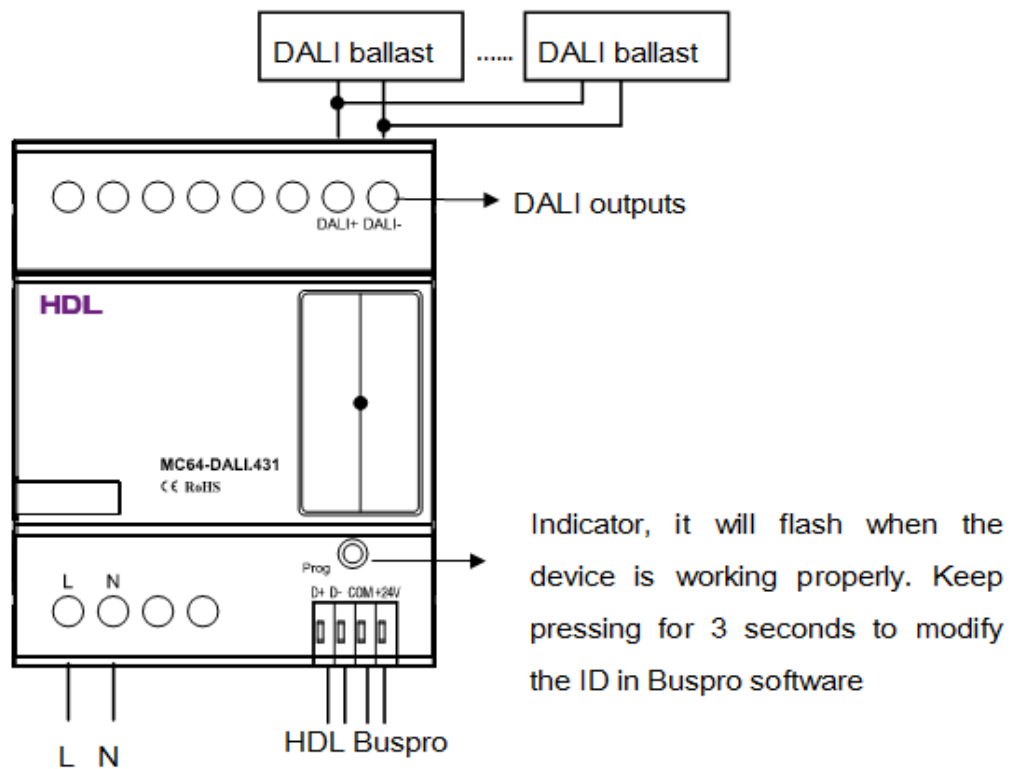


HDL-MC-DALI.431

## Functions:

- Gateway between HDL Buspro system and DALI Ballast
- Max. 64 channel DALI ballasts can be connected to this module
- With scene control
- Maximum 16 separate areas, supports area dimming
- Each area has 16 scenes and maximum scenes running time is 90.51s.

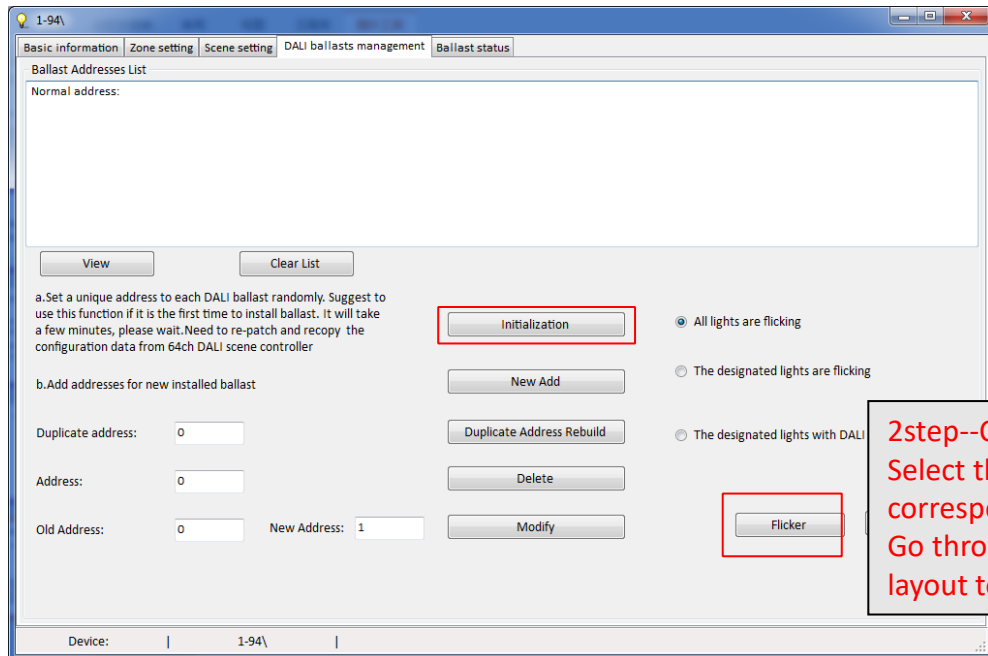
# Wiring



# DALI address\Patch

Address the DALI Devices

1step--If it is a new installation use “Initialization” to set all of the addresses, the DALI ballasts will be addressed randomly. When the addressing is finished you will see all the addresses in the blue section.



**2step--Check the address of each device**  
**Select the DALi Address, click the flicker button to make the corresponding address flash.**  
**Go through every address at a time and write on your floor layout to show which luminaire has which address.**

# Zone Setting

## Step3- Configure Zone

Configure zone and add channels to your zone. zone in HDL directly correlate to groups in DALi

When you are configuring areas –  
after clicking on save you will  
actually send the group settings to  
the DALi ballasts

HDL Area	DALi Group
1	0
2	1
16	15

# Zone Setting

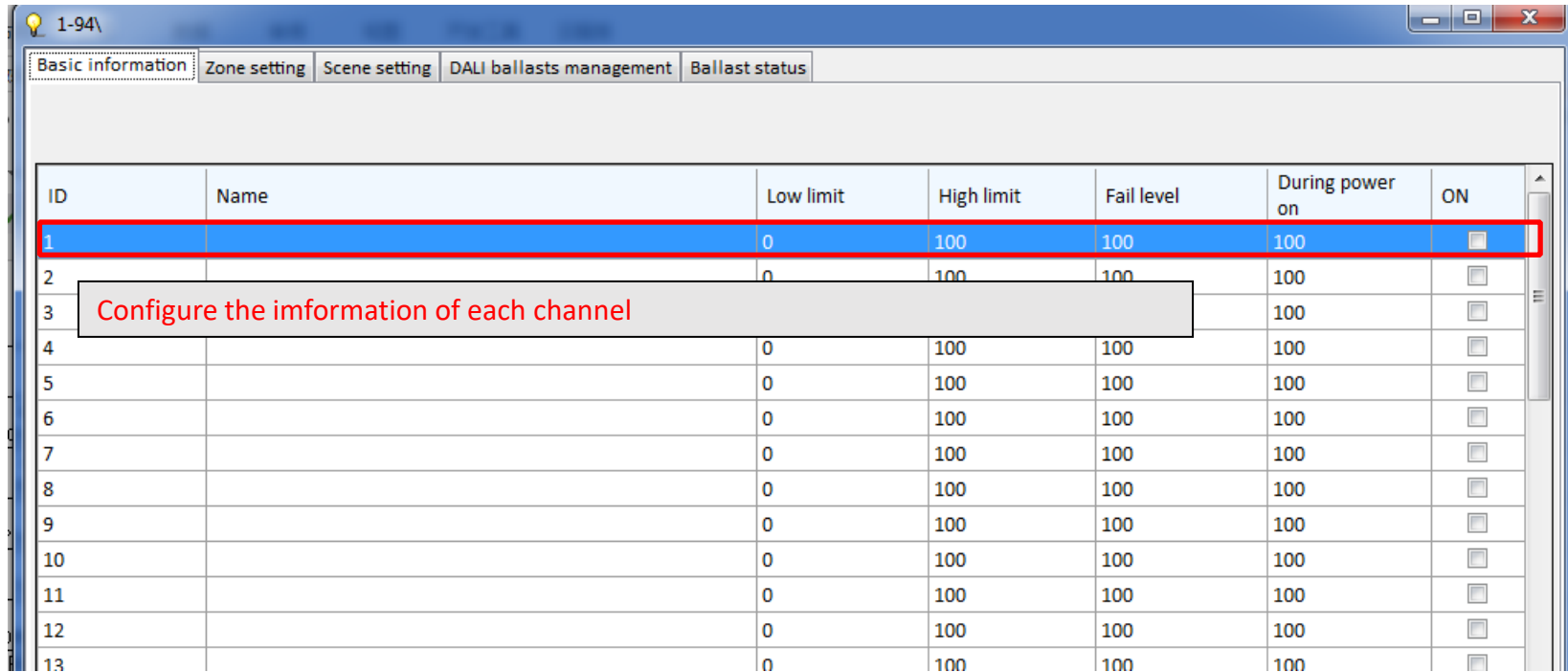
The screenshot shows the 'Zone setting' tab in the HDL software. The interface is divided into several sections:

- All zone:** A vertical list of zones (1-9) with a cube icon next to zone 1. A red box highlights zone 1, with an arrow pointing to the text '1. Add zone'. Another red box highlights the cube icon, with an arrow pointing to the text '2. Select zone'.
- Zone configuration:** A central panel showing 'All zone in total: 1'. It includes a 'Name:' input field (highlighted with a red box and arrow to '3. Fill in name'), a 'Modify Remark' button, an 'Add Zone' button (highlighted with a red box and arrow to '5. Click here to add the channel'), a 'Delete Zone' button, and navigation buttons '<<<-----' and '----->>>'. A red box highlights the 'Add Zone' button.
- Channel information:** A table with columns 'Channel No.', 'Name', and 'ON'. The first row (Channel No. 10) is highlighted in blue, with an arrow pointing to the text '4. Select the channel'.
- Bottom bar:** A 'Save' button (highlighted with a red box and arrow to '6. Save'), a 'Save & Close' button, and a 'Refresh scenes level' button.

# Channel

## Step4- Configure Channels

Check and configure the settings for all channels.



The screenshot shows a software window titled '1-94\'. It has a tabbed interface with 'Basic information' selected. Below the tabs is a table with 7 columns: ID, Name, Low limit, High limit, Fail level, During power on, and ON. The first row (ID 1) is highlighted in blue and has a red border. A callout box with the text 'Configure the information of each channel' points to the first row.

ID	Name	Low limit	High limit	Fail level	During power on	ON
1		0	100	100	100	<input type="checkbox"/>
2		0	100	100	100	<input type="checkbox"/>
3					100	<input type="checkbox"/>
4		0	100	100	100	<input type="checkbox"/>
5		0	100	100	100	<input type="checkbox"/>
6		0	100	100	100	<input type="checkbox"/>
7		0	100	100	100	<input type="checkbox"/>
8		0	100	100	100	<input type="checkbox"/>
9		0	100	100	100	<input type="checkbox"/>
10		0	100	100	100	<input type="checkbox"/>
11		0	100	100	100	<input type="checkbox"/>
12		0	100	100	100	<input type="checkbox"/>
13		0	100	100	100	<input type="checkbox"/>



# Scene

Step5- Configure Scenes.

**1. Select zone**

**2. Remark the scene and Select scene**

**3. Set running time**

**4. Set the intensity**

**5. Save**

Scene No.	Name	Dali time
0	off	0
1	scene1	0.71
2	scene2	0.71
3	scene3	0.71
4	scene4	0.71
5	scene5	0.71
6	scene6	0.71
7	scene7	0.71
8	scene8	0.71
9	scene9	0.71
10	scene10	0.71
11	scene11	0.71
12	scene12	0.71
13	scene13	0.71
14	scene14	0.71
15	scene15	0.71

Chn No.	Name	Intensity
1		0
2		0
3		0
4		0
5		0
6		0
7		0
8		0
9		0

# Scene Restore

Basic information | Zone setting | **Scene setting** | DALI ballasts management | Ballast status

Choose zone: 1-  Output on site

Scene restore mode after power on:  Scene before power off  Specified scene 0

Select a scene for scene restore when power on.

All scenes			Channel information		
Scene No.	Name	Dali time	Chn No.	Name	Intensity
0	off	0	1		0
1	scene1	0.71	2		0
2	scene2	0.71	3		0
3	scene3	0.71	4		0
4	scene4	0.71	5		0
5	scene5	0.71	6		0
6	scene6	0.71	7		0
7	scene7	0.71	8		0
8	scene8	0.71	9		0
9	scene9	0.71			
10	scene10	0.71			
11	scene11	0.71			
12	scene12	0.71			
13	scene13	0.71			
14	scene14	0.71			
15	scene15	0.71			

Read current level

Save & Close Refresh scenes level

Device: | 1-94\ |

# Controlling

## Step8- Controlling

You can control the DALi devices using any of the standard HDL commands:

Single Channel Command to set a single DALi device

Scene Command to set a Group to a specific scene

The DALI64 supports direct DALi group control. By using HDL single channel commands you can set or dim a whole Area / Group of ballasts.

To directly control a whole area or group use channels 65 to 80, these are mapped to the DALi Groups 0 to 15

HDL Channel	HDL Area	DALi
65	1	0
66	2	1
67	3	2
79	15	14
80	16	15

# Emergency or Fire Mode

## Emergency or Fire Mode

The function of this mode is:

1. Set all ballast on a per area basis to 100% when there is an emergency – for example used in a hospital when there is a fire alarm to assist with evacuation.
2. When the fire alarm is cleared each ballast returns to the setting it had before the emergency.

Universal switches are used to set the emergency mode on or off on an area by area basis.

Universal Switch number	Area	DALi Group
1	1	0
16	16	15

# Emergency or Fire Mode

For example:

Area 1 contains channels 1, 2, 7 and 8

Area 2 contains channels 3, 4, 5 and 20

Current settings are:

1- 80%, 2 - 100%, 7 - 0%, 8 - 80%;

3 - 45%, 4 - 80%, 5 - 100%, 20 - 100%.

Set universal switch 1 “on” (makes Area 1 go to emergency mode)

1, 2, 7 and 8 all go to 100%

3, 4, 5 and 20 do not change

Set universal switch 1 “off” (makes Area 1 return to previous settings)

Channels in area 1 go to

1- 80%, 2 - 100%, 7 - 0%, 8 - 80%;

Channels in area 2:

3, 4, 5 and 20 do not change

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Serious about smart buildings.