

SB-DN-DALI64

Usable also for HDL-MC64-DALI.431

Manual describes the snapshots taken in the previous version of the module and using older HBST program. In HBST2, the graphic appearance is slightly different but the functions remain the same



DALI bus
(no polarity)

HDL-BUS

Note: below we take SB-DN-DALI48 (terminated) as an example.



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Basic Info

48 channels DALI scene controller

① Device ② Area ③ Channel ④ Scene ⑤ DALI address\Patch ⑥ DALI Status

Select device

Device: 1-127-SB-DN-DALI48 (DALI-1)

Device configuration

Model: SB-DN-DALI48

Subnet ID: 1 Device ID: 127

Device remark

Remark: DALI-1 Save

MAC address

MAC: 00.00.21.0F.18.00.47.11

Model picture

remarks

you can change its IDs here.

Modify subnet ID and device ID according to MAC

Subnet ID: Device ID: Save

Picture upload

Upload... Delete Exit



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search and assign DALI addresses to online DALI devices.

The screenshot shows the '48 channels DALI scene controller' software interface. The 'DALI address\Patch' tab is selected. The interface is divided into several sections:

- Top Navigation:** 1 Device, 2 Area, 3 Channel, 4 Scene, 5 DALI address\Patch, 6 DALI Status.
- Select Device:** Device: 3-127-SB-DN-DALI48 (DALI-1).
- Address related operations:** A table with columns 01-08 and rows View (&V), 01 02, 09 10. A red box highlights the 'View (&V)' row.
- online DALI devices(DALI ballasts) that are found:** A large blue area with a red box and the number '2' pointing to it.
- Initialization:** A button labeled 'Initialization' with a red box and the number '1' pointing to it.
- Clear(C) View(V):** Buttons for clearing and viewing data.
- Confirm the location of the lights according to their flicker:** A section with three radio button options: 'All lights are flickering', 'The designated lights are flickering', and 'The designated lights with DALI address are flickering'. A red box highlights this section with the number '1' and the text 'check the assigned DALI ballasts(check the locations of them)'. Below are 'Flicker(E)' and 'Stop flickering(E)' buttons.
- Patch:** A section with a 'Patch...' button highlighted with a red box and the number '3'. Text below reads: 'DALI address will be assigned to the controller circuit. They can not be repeated, FF means no exist.' A red box and the number '3' also point to the 'Patch...' button with the text 'check or reorganize the association of controller's channel NO. and ballast's address.'
- Copy data:** A section with a 'Start copying(C)' button and text: 'Copy the configuration data from 48ch DALI scene controller to the DALI devices'.



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Reorganize the association between channels of controller and addresses of DALI devices. (Patch)

The screenshot shows the HDL Edit patch software interface. The main window is titled "48 channels DALI scene controller". The "DALI address\Patch" tab is selected. The "Basic information" section shows: Data acquisition mode: Device, Model: SB-DN-DALI48, Subnet ID: 3, Device ID: 127, Remark: DALI-1.

The "Modify patch" section contains a table with two columns: "Scene controller channel NO." and "DALI address NO.". The table data is as follows:

Scene controller channel NO.	DALI address NO.
1-	3
2-	8
3-	9
4-	5
5-	4
6-	10
7-	7
8-	2
9-	1
10-	6
11-	0

Annotations in red text and arrows provide instructions:

- A red box highlights the "DALI address NO." column, with the text: "when use a button to turn on channel 9 of the controller, the ballast 1 will turn on." An arrow points from this text to the value '1' in the 9th row of the table.
- A red box highlights the "Scene controller channel NO." column, with the text: "channels of controller".
- A red box highlights the "DALI address NO." column, with the text: "DALI address/DALI ballast address".
- A red box highlights the "DALI Flashing" section, with the text: "check the location of the ballast, then fill it in the sheet (you don't have to fill in anything if you use the default association/patch)".
- A red box highlights the "Patch..." button, with an arrow pointing to it from the "DALI Flashing" section.

The "DALI Flashing" section includes a checkbox for "Flash One by One", a dropdown menu for "Address:" (showing options 1-10), and a "Please input the char:" field with "1" and "To" and "10" fields. There are "OK", "Initialize", "Save", and "Exit" buttons.



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save the DALI addresses to DALI devices.

48 channels DALI scene controller

① Device ② Area ③ Channel ④ Scene ⑤ DALI address\Patch ⑥ DALI Status

Select Device
Device: 3-127-SB-DN-DALI48 (DALI-1)

Address related operations

View (&V)		03	04	05	06	07	08
01	02						
09	10						

Clear(C) View(V)

Initialization
a. Set an unique address to each DALI device randomly. Suggest to use this function if it is the first time to install the devices. It will take a few minutes, please wait. Need to re-patch and recopy the configuration data from 48ch DALI scene controller to the DALI device after completing.

New Add
b. Add New Address for new added

Duplicate Address Rebuild
The repeated Address:

Delete
Address:

Modify(M)
c. Change a new address for existed one. If new address has existed, please delete first, then delete.
Old DALI: New DALI:

Confirm the location of the lights according to their flicker

1. Confirm the location of the lights

All lights are flickering

The designated lights are flickering

The designated lights with DALI address are flickering

Flicker(F) Stop flickering(E)

Patch
DALI address will be assigned to the controller circuit. They can not be repeated. FF means no exist.

Patch...

Copy data **SAVE!**

Copy the configuration data from 48ch DALI scene controller to the DALI devices

Start copying(C)



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Area setup(1)

48 channels DALI scene controller

① Device ② Area ③ Channel ④ Scene ⑤ DALI address\Patch ⑥ DALI Status

Select device
Device: 1-127-SB-DN-DALI48 (DALI-1)

Current area: 1 bedroom

Area information

Area no.	Remark	Load totality
1	bedroom	3
2	living room	6
3	childrens room	6
4	garden	16
5		10

Area information
Total area: 5

Current channel

Channel information of current area

Chn no.	Remark
1	light01-33
2	light02-43
3	light03-22

Area modification

Area remark...
Area setup...
Exit

press the button on the right or right click and select the "Area setup...".

Modify area remark...
Area setup...
Refresh (clear buffer memory data, reread data from device)



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Area setup(2)

48 channels DALI scene controller

1 Device 2 Area 3 Channel 4 Scene 5 DALI address Patch 6 DALI Status

Select device: Device: 1-127-SB-DN-DALI48 (DALI-1)

Area information: Total area: 5

Current area: 2-liv

Area information:

Area no.
1
2
3
4
5

Area setup

Basic information

Data acquisition mode	Device	Model	SB-DN-DALI48
Subnet ID	1	Device ID	127
Remark	DALI-1	Max channels	48

Channels waiting allocation:

- 42-
- 43-
- 44-
- 45-
- 46-
- 47-
- 48-

Channels in current area:

Current area no.: 6
Max area no.: 6

Buttons: [Right Arrow] [Left Arrow] [Select all <-] [Deselect all <-] [Create area]

Area modification:

Buttons: [Area remark...] [Area setup...] [Exit]

Area setup dialog buttons: [Turn On when Selected] [Clear All] [Select all <-] [Deselect all <-] [Save] [Exit]

Annotations: 1 (Create area), 2 (Turn On when Selected), 3 (Channels waiting allocation), 4 (Right Arrow), 5 (Save)



configurate the channel proproties

48 channels DALI scene controller

① Device ② Area ③ Channel ④ Scene ⑤ DALI address\Patch ⑥ DALI Status

Select device
Device: 3-127-SB-DN-DALI48 (DALI-1)

Current area: 1-testZone
Current channel: 10-r4c3

intensity after DALI ballast powered on.
e.g., one of the DALI twin(the 2 control wires) is disconnected.

Area information

Area no.	Remark	Load totality
1	testZone	10

Channel information of current area

Load no.	Chn no.	Remark	Load	Lower limit	Higher limit	Fade rate(st)	Intensity during system's failure(%)	DALI devices	Intensity after power on
1	1	r1c1	Undefi 0	100	100	2.8	75	100	100
2	2	r1c2	Undefi 0	100	100	2.8	75	100	100
3	3	r1c3	Undefi 0	100	100	2.8	75	100	100
4	4	r2c1	Undefi 0	100	100	2.8	75	100	100
5	5	r2c2	Undefi 0	100	100	2.8	75	100	100
6	6	r2c3	Undefi 0	100	100	2.8	75	100	100
7	7	r3c1	Undefi 0	100	100	2.8	75	100	100
8	8	r3c2	Undefi 0	100	100	2.8	75	100	100
9	9	r3c3	Undefi 0	100	100	2.8	75	100	100
10	10	r4c3	Undefi 0	100	100	2.8	75	100	100

Channel modification

- Remark...
- Lower limit...
- Higher limit...
- Fade rate...
- System failure...
- DALI devices Power on...

Load test

- Load test

Modify patch

- Patch...

Exit

same as mentioned before



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setup scenes

48 channels DALI scene controller

1 Device 2 Area 3 Channel 4 Scene 5 DALI address/Patch 6 DALI Status

Select device: Device 3-127-SB-DN-DALI48 (DALI-1)

Select area: Area 1-testZone

Scene restore after the controller powered on

Scene restore: Scene restore...

Input scene no. from 0 To 3 Confirm

Current channel 5-r2c2

Scene information

Scene no.	Remark	Running time(mm ss)
0	all_off	1
1	all_30 percent	1
2	all_70 percent	1
3	all_100 percent	1

Channels information of current scene

Chn no.	Remark	Intensity
1	r1c1	100
2	r1c2	100
3	r1c3	100
4	r2c1	100
5	r2c2	100
6	r2c3	100
7	r3c1	100
8	r3c2	100
9	r3c3	100
10	r4c3	100

Area information: Total area 1

Scene information: Current scene no. 3, Start scene no. 0, End scene no. 3

Scene modification: Remark..., Scene setup..., Material...

Exit



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feedbacks from controller

48 channels DALI scene controller

① Device ② Area ③ Channel ④ Scene ⑤ DALI address\Patch ⑥ DALI Status

Device: 3-127-SB-DN-DALI48 (DALI-1)

Status of DALI Devices

DALI A...	Ballast Status	Load State	Ligh(ON/OFF)	In the range of brightness	Dimming	Reset
1	Work	Work	ON	In	Dimming Over	NO
2	Work	Work	ON	In	Dimming Over	NO
3	Work	Work	ON	In	Dimming Over	NO
4	Work	Work	ON	In	Dimming Over	NO
5	Work	Work	ON	In	Dimming Over	NO
6	Work	Work	ON	In	Dimming Over	NO
7	Work	Work	ON	Out	Dimming	YES
8	Work	Work	ON	In	Dimming Over	NO
9	Work	Work	ON	In	Dimming Over	NO
10	Work	Work	ON	In	Dimming Over	NO



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