

HDL[®]

Leading Edge Dimmer

HDL-MD0403.432

Dimmer Introduction



Small dimmer (DIN rail-mount)

D series – leading edge dimmer

DT series – trailing edge dimmer

◆ 6ch 2A dimmer (HDL-MD0602.432)



◆ 4ch 3A dimmer (HDL-MD0403.432)



◆ 2ch 6A dimmer (HDL-MD0206.432)



Dimmer Introduction

- All dimmer modules can save and control scenes, after programming, users can recall the preset scene stored in the dimmer module. Meanwhile, if there is power cut, the dimmer can restore the previous scene or specific scene when power restores.
- All dimmer modules have sequence function, that makes the lighting control and lighting effects more dynamic and colorful.

- Scene: the combination of several channels' status (on/off or different brightness levels.)
- Sequence: the combination of difference scenes with playing parameters.



Dimmer Introduction

Leading edge dimmer can dim

1. incandescent lamp
2. halogen lamp
3. LED (with driver)
4. ...



Attention: energy-saving lamp & fluorescent light can't be dimmed by this type of dimmer.



Channel

2-17\D0403

Basic information | Zone setting | Scene setting | Sequence setting

Select voltage

220V 110V

ID	Name	Load type	Low limit	High limit	Max level	Curve	ON
1	1-17-1	Undefined	0	100	100	Curve 1.0	<input type="checkbox"/>
2	1-17-2	Undefined	0	100	100	Curve 1.0	<input type="checkbox"/>
3	1-17-3	Undefined	0	100	100	Curve 1.0	<input type="checkbox"/>
4	1-17-4	Undefined	0	100	100	Curve 1.0	<input type="checkbox"/>

Input the name for each channel

For testing

Read temperature Save & Close Refresh scenes level

Device: | 2-17\D0403 |

Channel

ID	Name	Load type	Low limit	High limit	Max level	Curve	ON
1	1-17-1	Undefined	0	100	100	Curve 1.0	<input checked="" type="checkbox"/>
2	1-17-2	Undefined	0	100	100	Curve 1.0	<input type="checkbox"/>
3	1-17-3	Undefined	0	100	100	Curve 1.0	<input type="checkbox"/>
4	1-17-4	Undefined	0	100	100	Curve 1.0	<input type="checkbox"/>

1. Lower limit: When commanded to a level that lower than the Lower limit, this channel will go to 0%, setting range: 00~Higher limit.

2. Higher limit: When commanded to a level that is higher than the High limit, this channel will go to Max level. setting range: Lower limit~Max level

3. Max level: Max brightness of a channel. Range 00~100%.

4. Curve: set the profile of brightness

Note: default setting: Lower limit: 0%; Higher limit: 100%; Max level: 100%

Zone

2-17\D0403

Basic information | **Zone setting** | Scene setting | Sequence setting

All zone

- 1-zone
- 1-1-17-1
- 2-1-17-2
- 2-zone

the current zone name

All zone in total: 2

Name: zone

Modify Remark

Add Zone

Delete Zone

<<<----

---->>>

Channel information

Channel No.	Name	ON
3	1-17-3	<input type="checkbox"/>
4	1-17-4	<input type="checkbox"/>

Modify the zone name

Channels in current zone

Read temperature

Save & Close

Refresh scenes level

Device: | 2-17\D0403 |

Zone Setup

The screenshot shows the 'Zone setting' tab of the HDL software interface. The window title is '2-17\D0403'. The interface is divided into several sections:

- All zone:** A tree view on the left showing a hierarchy. '1-zone' contains '1-1-17-1' and '2-1-17-2'. '2-zone' is a child of '1-zone'. A red box highlights '2-zone', with an arrow pointing to a callout box: **1.Choose the zone**.
- Channel information:** A table on the right with columns 'Channel No.', 'Name', and 'ON'.

Channel No.	Name	ON
3	1-17-3	<input type="checkbox"/>
4	1-17-4	<input type="checkbox"/>

A red box highlights the entire table, with an arrow pointing to a callout box: **2.Choose the channel**.
- Configuration Area:** In the center, 'All zone in total: 2' is displayed. Below it is a 'Name: zone' field. Buttons include 'Modify Remark', 'Add Zone', 'Delete Zone', and navigation arrows. A red box highlights the left navigation arrow, with an arrow pointing to a callout box: **3.Move the channel to the zone**.
- Bottom Bar:** Contains buttons for 'Read temperature', a refresh icon, a save icon (highlighted with a red box and callout **4.save**), 'Save & Close', and 'Refresh scenes level'. The status bar at the bottom shows 'Device: | 2-17\D0403 |'.

Scene

The screenshot shows the 'Scene setting' tab of the HDL software interface. The window title is '2-17\D0403'. The interface includes several sections and controls:

- Basic information:** 'Zone setting' is set to '1-zone'. 'Output on site' is unchecked.
- Scene restore mode after power on:** 'Specified scene' is selected with a value of '0'.
- All scenes table:**

Scene No.	Name	Runtime(mm:ss)
0	all off	0:0
1	1	2 : 1
2	2	
3	3	
4	4	
5	all on	2:1
6		0:0
7		0:0
8		0:0
9		0:0
10		0:0
11		0:0
12		0:0
- Channel information table:**

Chn No.	Name	Intensity
1	1-17-1	20
2	1-17-2	0
3	1-17-3	0
4	1-17-4	0
- Buttons:** 'Read temperature', 'Save & Close', and 'Refresh scenes level' are visible. A 'Save' icon is highlighted in the bottom toolbar.

Five numbered callouts provide instructions:

1. Choose the zone (points to the '1-zone' dropdown)
2. Choose the scene and enter the scene name (points to the '1' in the 'All scenes' table)
3. Set the scene running time (points to the '2 : 1' in the 'All scenes' table)
4. Set the intensity for each channel (points to the '20' in the 'Channel information' table)
5. Save (points to the 'Save' icon in the bottom toolbar)

Recovery Scene

2-17\D0403

Basic information | Zone setting | **Scene setting** | Sequence setting

Choose zone: 1-zone Output on site

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

All scenes

Scene No.	Name	Runtime(mm:ss)
0	all off	0:0
1	1	2 : 1
2	2	2:1
3	3	2:1
4	4	2:1
5	all on	2:1
6		0:0
7		0:0
8		0:0
9		0:0
10		0:0
11		0:0
12		0:0

Channel information

Chn No.	Name	Intensity
1	1-17-1	20
2	1-17-2	0
3	1-17-3	0
4	1-17-4	0

Read current level

Read temperature Refresh scenes level

Device: | 2-17\D0403 |

Select a scene for scene restoration when power on.

Sequence

The screenshot shows the 'Sequence setting' tab in the HDL software. It features a 'Choose zone:' dropdown set to '1-zone' and a 'Current selected sequence:' dropdown set to '1'. Below this are two tables for 'Current sequence information'. The left table lists sequence numbers 1 through 6 with columns for Name, Mode, Run times, and Step count. The right table lists sequence numbers 1 through 6 with columns for Scene and Duration(s). Three callout boxes provide instructions: '1. Select the sequence' points to the 'Current selected sequence:' dropdown; '2. Fill in the name' points to the 'Name' column in the left table; '3. Set the steps, run times, mode for the sequence' points to the 'Mode', 'Run times', and 'Step count' columns in the left table.

1. Select the sequence

2. Fill in the name

3. Set the steps, run times, mode for the sequence

Sequence No.	Name	Mode	Run times	Step count
1		Random M...	Never Stop	6
2		Forward M...	Never Stop	6
3		Invalid	Never Stop	0
4		Invalid	Never Stop	0
5		Invalid	Never Stop	0
6		Invalid	Never Stop	0

Step No.	Scene	Duration(s)
1	0-all off	0:1.0
2	1-1	0:1.0
3	2-2	0:2.0
4	3-3	0:3.0
5	4-4	0:3.0
6	5-all on	0:2.0

Sequence

2-17\D0403

Basic information | Zone setting | Scene setting | **Sequence setting**

Choose zone: 1-zone | Current selected sequence: 1 | Test

Current sequence information

Sequence No.	Name	Mode	Run times	Step count
1		Random M...	Never Stop	6
2		Forward M...	Never Stop	6
3		Invalid	Never Stop	0
4		Invalid	Never Stop	0
5		Invalid	Never Stop	0
6		Invalid	Never Stop	0

Current sequence information

Step No.	Scene	Duration(s)
1	0-all off	0:1.0
2	1-1	0:1.0
3	2-2	0:2.0
4	3-3	0:3.0
5	4-4	0:3.0
6	5-all on	0:2.0

4. Slect the scene for each step

5. Set the duration time

6. Save

Read temperature | Save | Save & Close | Refresh scenes level

Device: | 2-17\D0403 |

Channel Control

Use button1 of DLP to control channel1 of dimmer:

The screenshot shows the 'Targets Configuration' window with the following details:

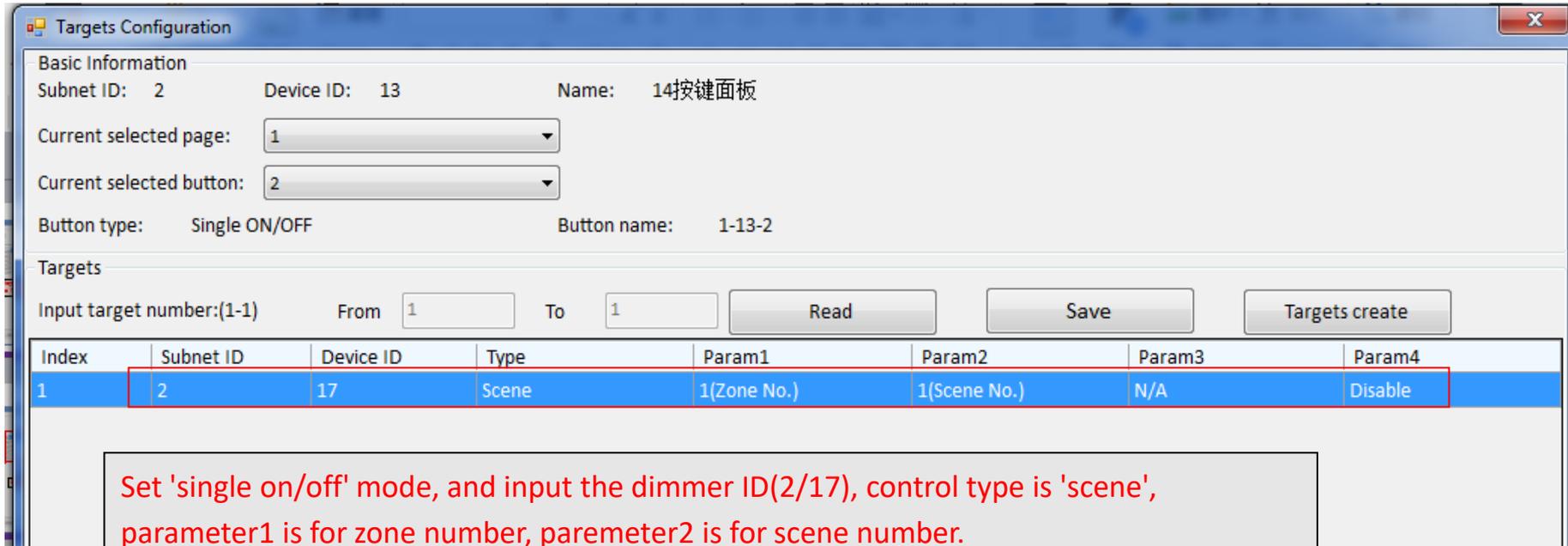
- Basic Information:** Subnet ID: 2, Device ID: 13, Name: 14按键面板
- Current selected page:** 1
- Current selected button:** 1
- Button type:** Single ON/OFF, **Button name:** 1-13-2
- Targets:** Input target number:(1-1), From: 1, To: 1, Buttons: Read, Save, Targets create
- Table:**

Index	Subnet ID	Device ID	Type	Param1	Param2	Param3	Param4
1	2	17	Single Channel Lightin...	1(Channel No.)	100(Chn:Level)	0:0(Running time)	Disable

Set 'single on/off' mode, and input the dimmer ID(2/17), control type is 'single channel lighting control', parameter1 is for channel number(1-4), parameter2 is for brightness(0-100).

Scene Control

Use button2 of DLP to control scene1 of dimmer:



The screenshot shows the 'Targets Configuration' window with the following settings:

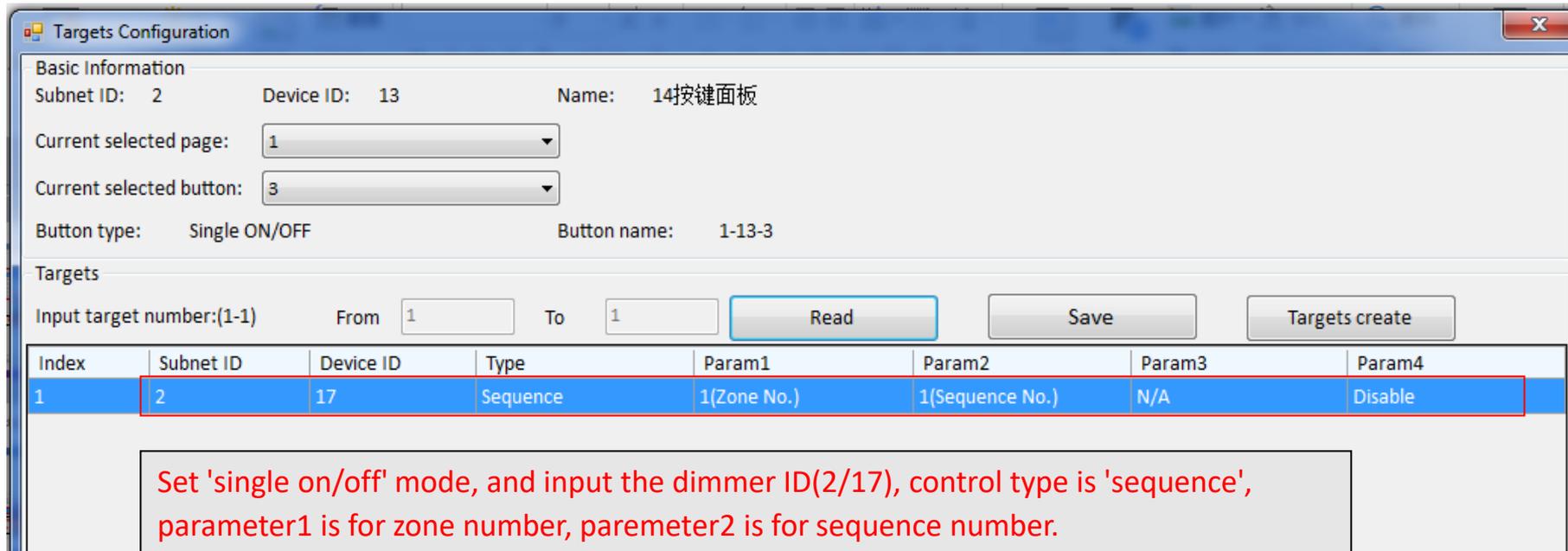
- Basic Information
 - Subnet ID: 2
 - Device ID: 13
 - Name: 14按键面板
 - Current selected page: 1
 - Current selected button: 2
 - Button type: Single ON/OFF
 - Button name: 1-13-2
- Targets
 - Input target number:(1-1) From 1 To 1
 - Buttons: Read, Save, Targets create
- Table:

Index	Subnet ID	Device ID	Type	Param1	Param2	Param3	Param4
1	2	17	Scene	1(Zone No.)	1(Scene No.)	N/A	Disable

Set 'single on/off' mode, and input the dimmer ID(2/17), control type is 'scene', parameter1 is for zone number, parameter2 is for scene number.

Sequence Control

Use button3 of DLP to control sequence1 of dimmer:



Targets Configuration

Basic Information

Subnet ID: 2 Device ID: 13 Name: 14按键面板

Current selected page: 1

Current selected button: 3

Button type: Single ON/OFF Button name: 1-13-3

Targets

Input target number:(1-1) From 1 To 1 Read Save Targets create

Index	Subnet ID	Device ID	Type	Param1	Param2	Param3	Param4
1	2	17	Sequence	1(Zone No.)	1(Sequence No.)	N/A	Disable

Set 'single on/off' mode, and input the dimmer ID(2/17), control type is 'sequence', parameter1 is for zone number, parameter2 is for sequence number.

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