

**HDL<sup>®</sup>**

A photograph of a modern office interior, overlaid with a semi-transparent purple filter. The office features a large open space with a high ceiling, glass partitions, and contemporary furniture including sofas and tables. On the right wall, a large 3D HDL logo is visible.

# 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.



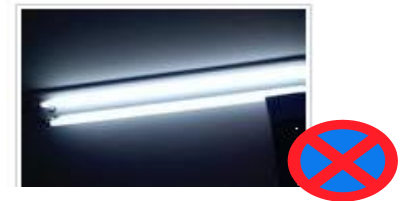
# Dimmer Introduction

## 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

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 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%**

Read temperature   Save & Close Refresh scenes level

Device: | 2-17\D0403 |

# 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. The interface includes a tree view on the left, a central control panel, and a table on the right. Four numbered callouts provide instructions:

- 1. Choose the zone**: Points to the '2-zone' entry in the 'All zone' tree view.
- 2. Choose the channel**: Points to the row for 'Channel No. 3' in the 'Channel information' table.
- 3. Move the channel to the zone**: Points to the left arrow button in the central panel.
- 4. save**: Points to the save icon button in the bottom toolbar.

**Channel information table:**

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

**Central Panel:**

All zone in total: 2

Name: zone

Buttons: Modify Remark, Add Zone, Delete Zone, <<---, --->>>

**Bottom Toolbar:**

Buttons: Read temperature, [Icon], [Save Icon], Save & Close, Refresh scenes level

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: 'Basic information', 'Zone setting', 'Scene setting', and 'Sequence setting'. The 'Scene setting' section has a 'Choose zone:' dropdown set to '1-zone', an 'Output on site' checkbox, and a 'Scene restore mode after power on:' section with radio buttons for 'Scene before power off' and 'Specified scene' (selected), with a value of '0'. Below this is the 'All scenes' table. The 'Channel information' table is also visible, showing channels 1 through 4 with names '1-17-1' through '1-17-4' and an 'Intensity' slider for channel 1 set to 20. At the bottom, there are buttons for 'Read temperature', a save icon, 'Save & Close', and 'Refresh scenes level'. The status bar at the bottom shows 'Device: 2-17\D0403'.

1. Choose the zone

2. Choose the scene and enter the scene name

3. Set the scene running time

4. Set the intensity for each channel

5. Save

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

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

# 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 Save & Close Refresh scenes level

Device: | 2-17\D0403 |

# 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

Read temperature Save & Close Refresh scenes level

Device: 2-17\D0403

1. Select the sequence

2. Fill in the name

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

# 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. Select 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. The 'Basic Information' section includes fields for Subnet ID (2), Device ID (13), and Name (14按键面板). Below these are dropdown menus for 'Current selected page' (1) and 'Current selected button' (1). The 'Button type' is set to 'Single ON/OFF' and the 'Button name' is '1-13-2'.

The 'Targets' section contains a table with columns: Index, Subnet ID, Device ID, Type, Param1, Param2, Param3, and Param4. A red box highlights the first row of the table.

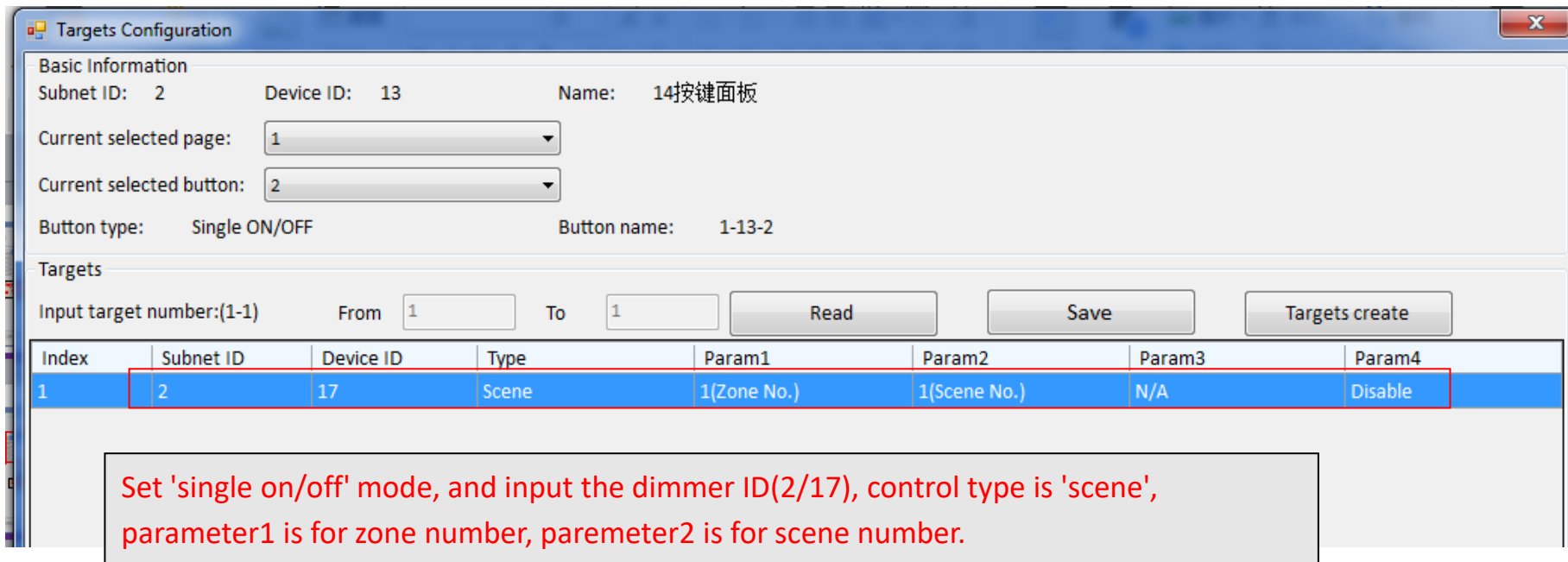
Index	Subnet ID	Device ID	Type	Param1	Param2	Param3	Param4
1	2	17	Single Channel Lightin...	1(Channel No.)	100(Chn:Level)	0:0(Running time)	Disable

Below the table, a red text box contains the following instructions:

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), paremeter2 is for brightness(0-100).

# Scene Control

Use button2 of DLP to control scene1 of dimmer:



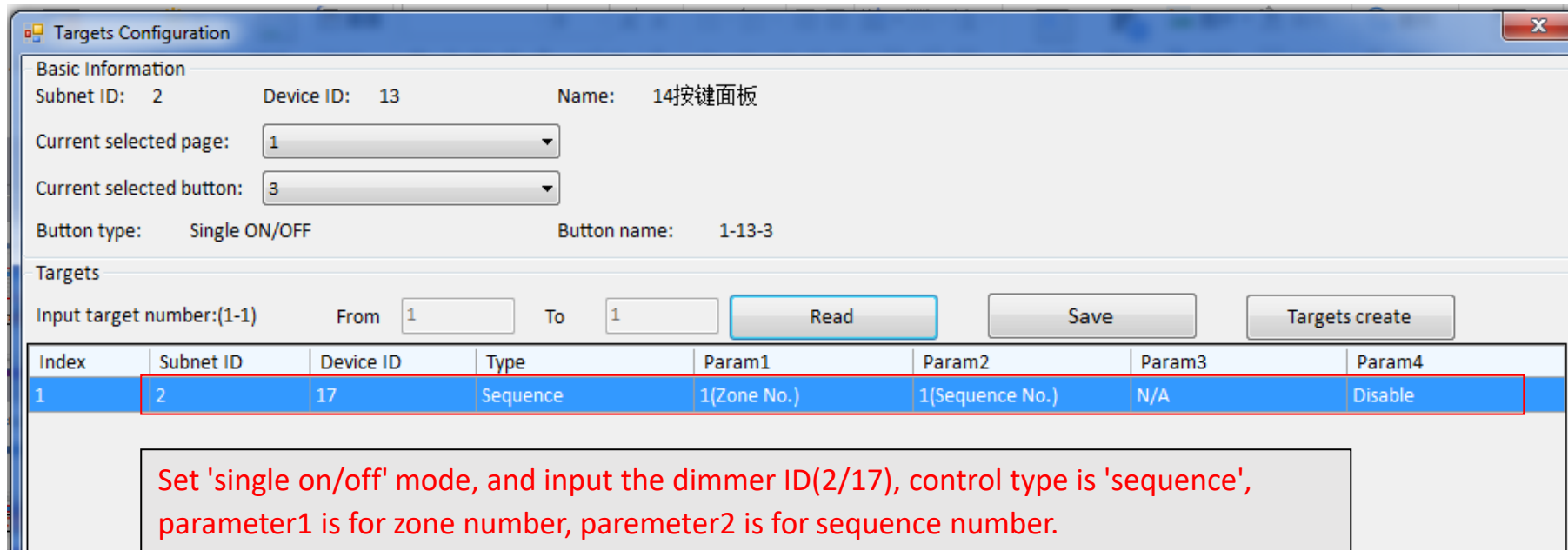
The screenshot shows the 'Targets Configuration' window. The 'Basic Information' section includes fields for Subnet ID (2), Device ID (13), and Name (14按键面板). The 'Current selected page' is 1 and the 'Current selected button' is 2. The 'Button type' is 'Single ON/OFF' and the 'Button name' is '1-13-2'. Below this is the 'Targets' section with input fields for 'Input target number:(1-1)', 'From' (1), and 'To' (1), along with 'Read', 'Save', and 'Targets create' buttons. A table lists the configured targets.

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:



The screenshot shows a '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: 3
  - Button type: Single ON/OFF
  - Button name: 1-13-3
- 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	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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Serious about smart buildings.