

HDL Buspro Setup Tool 2

HDL Buspro Setup Tool 2 V06.25B

Settings

Fast search

Advance search

Data backup

Data restore

Template

Utility

Language

Tool

Help

Device list

Status	Subnet ID	Device ID	Model	Name	Description	Version
✓	1	6	SB-IR-EM		Infrared signal emission,remote rece...	Unread
✓	1	200	HDL-MC-48IPDMX.431		48 channels scene controller bus	Unread
✓	2	0	HDL-MBU501P.431		1 port switchboard	Unread
✓	2	1	HDL-MC64-DALI	DALI	64 channels DALI scene controller	Unread
✓	2	2	HDL-MD0403.432		4ch 3A Leading Edge Dimming module	Unread
✓	2	3	SB-CMS-12in1		12in1 Multi function Sensor	Unread
✓	2	4	HDL-MC48IPDMX.231	DMX	48 channels scene controller bus	Unread
✓	2	5	HDL-MSD08.40	Dry contact	Sensor Input Module	Unread
✓	2	6	SB-DN-HVAC		Air-conditioning controller	Unread
✓	2	7	HDL-MR0416.431		4 channels 16A relay IV	Unread
✓	2	23	HDL-MSM		Advanced Security Controller	Unread
✓	2	24	SB-DN-2Motor		2Ch Window Curtain controller	Unread
✓	2	25	SB-DN-Logic960	logic1111111111111111	Logic timer	Unread
✓	2	26	SB-IR-EM	IR-EM	Infrared signal emission,remote rece...	Unread
✓	2	27	HDL-MRS232.431	RS232	RS232<->HDL-BUS data transfer	Unread
✓	6	1	HDL-MZDN.432A		standard Music player devices	Unread
✓	200	0	HDL-MCIP-RF02.10	wireless	Mesh Node	Unread
✓	200	211	HDL-MP68-RF.18	6buttons	6 key wireless multifunction panel g...	Unread
✓	200	213	HDL-MPC01-RF.18	G1-C	1Ch Window Curtain controller	Unread
✓	200	214	HDL-MPD01-RF.18	G1-D	1ch 1.5A Dimmer	Unread
✓	200	215	HDL-MPR01-RF.18	G1-R	1 channels 8A relay driver	Unread
✓	200	222	HDL-MPL8-RF	Mixed panel	DLP Panel with AC Music Clock Floor ...	Unread

Current select ip: 192.168.1.112

Total device: 22

Online: 22

Offline: 0

Current mode: Online mode

This document was created by the HDL Technical Documentation department:



No.86 LianHuaXi Rd. Lifeng Avenue, Panyu District

Guangzhou, China

Tel: 0086 020-846 516 66 Fax: 0086 020-85520532

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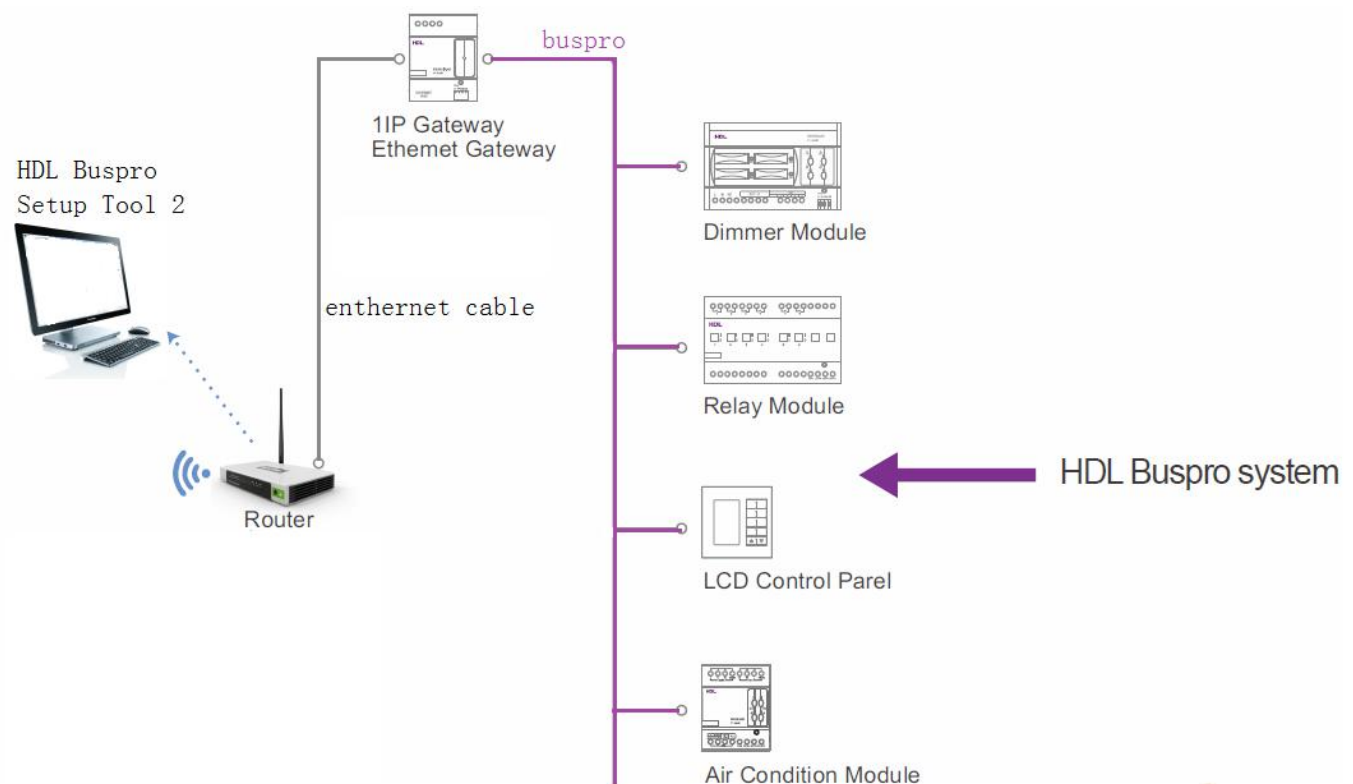
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1. Introduction

HDL Buspro Setup Tool 2 is the new program software which designed by HDL, it is used to program HDL buspro devices.

- Online program buspro devices.
- Remote access.
- Device data backup/restore.
- Save the targets as template, and modify/import template.
- Upgrade device.
- Change image for DLP panels and hand remote controller.
- Test wireless device signal strength.
- Program Xiao bai and HDL ON project.
- Learn IR codes via IR learner.
- Language change, can select as English and Chinese.
- Command text.

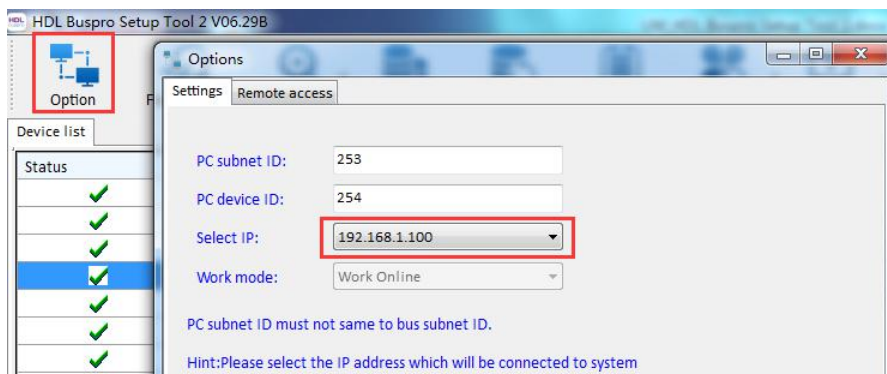
2. Connection



Notice: The IP gateway module and PC must in the same Network.

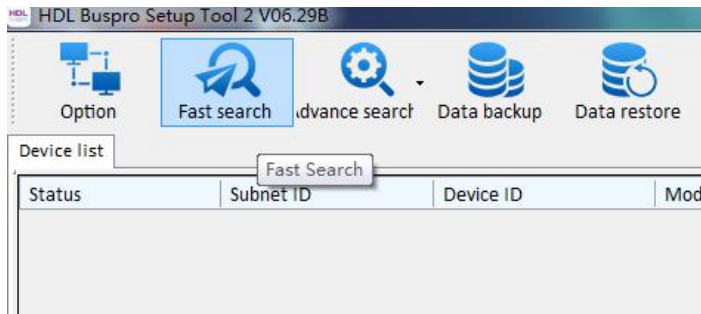
3. Search Online Device

3.1 Select the right IP



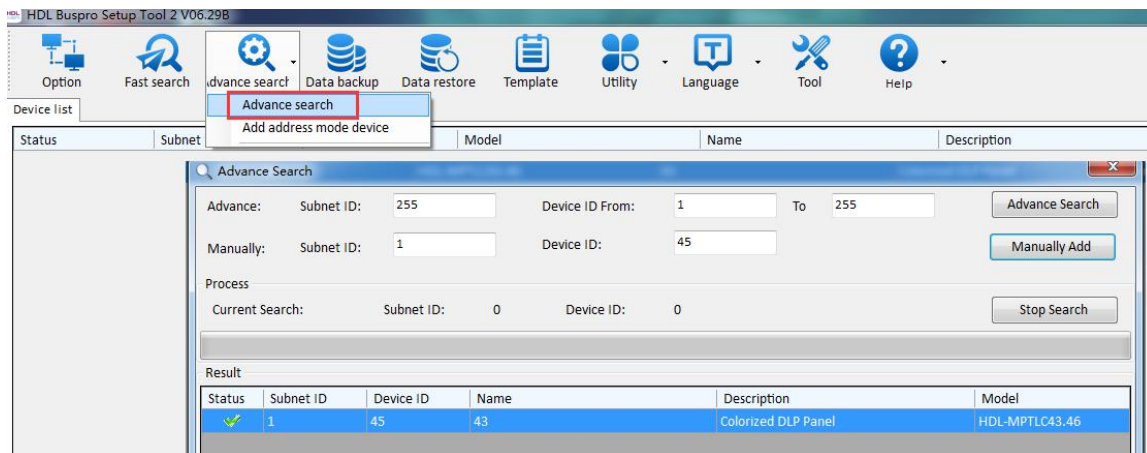
3.2 Fast Search

It will fast search all online devices.

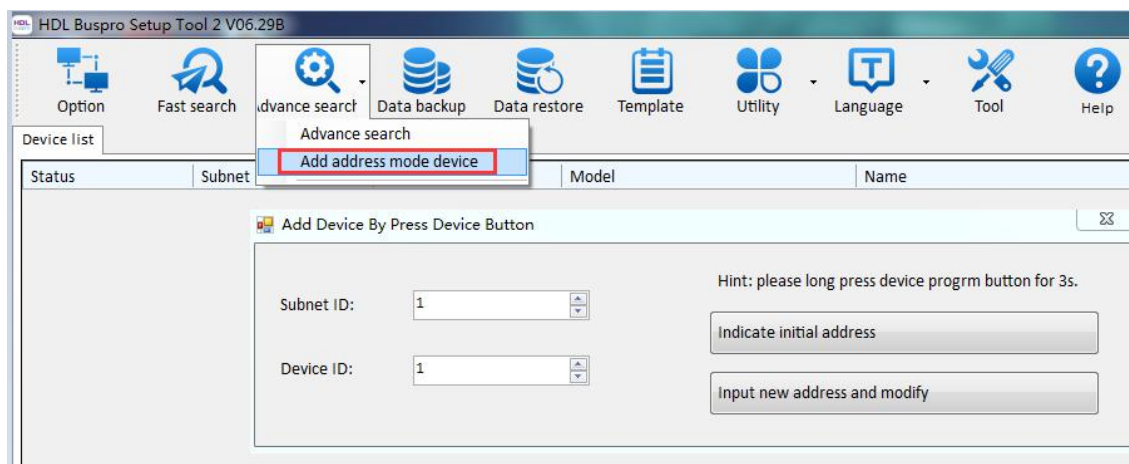


3.2 Advance Search

Search the specified address.



Search the device which enters to the program mode.

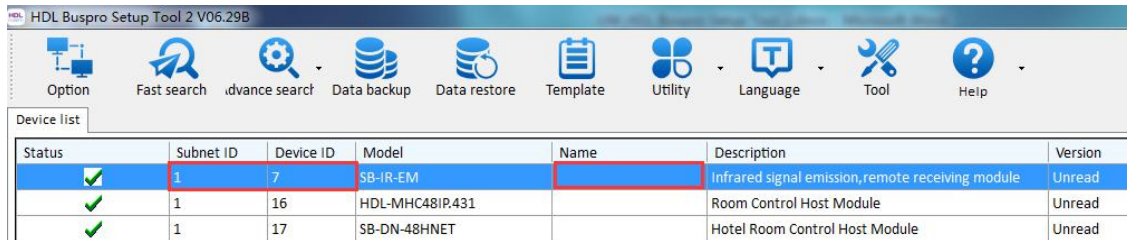


3.3 Modify Address and Name

Double click Subnet ID and Device ID can modify the address.

Double click Name area can modify the name.

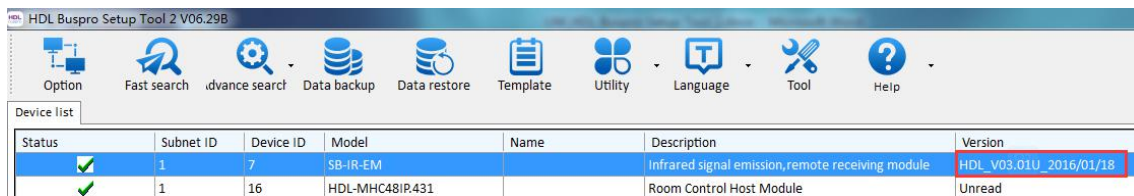
Double click the Model name, can enter to the device.



Status	Subnet ID	Device ID	Model	Name	Description	Version
✓	1	7	SB-IR-EM		Infrared signal emission, remote receiving module	Unread
✓	1	16	HDL-MHC48IP.431		Room Control Host Module	Unread
✓	1	17	SB-DN-48HNET		Hotel Room Control Host Module	Unread

3.4 Read Device Version

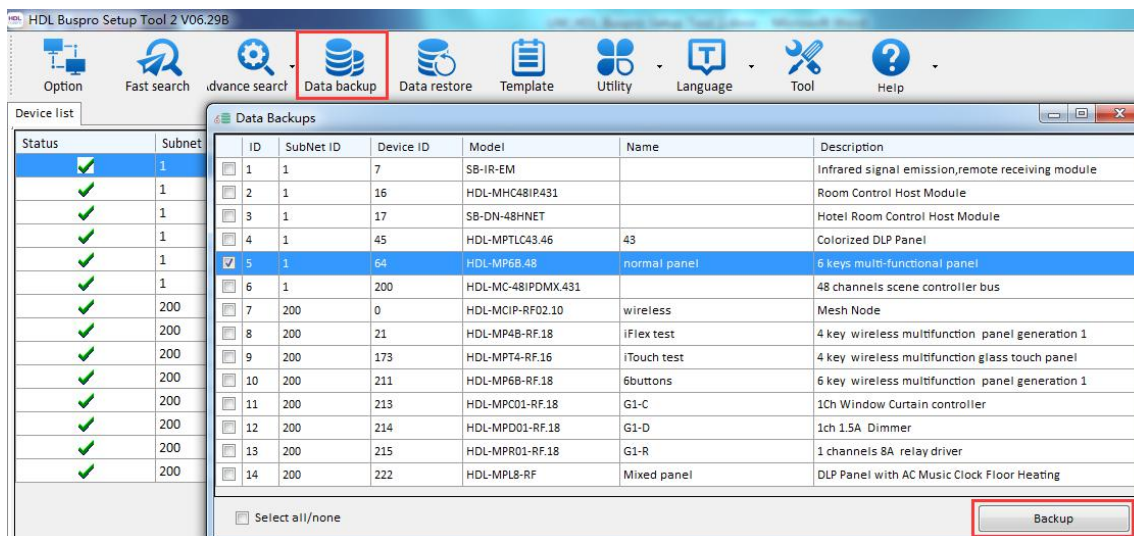
Double click the Version area can read the device's version.



Status	Subnet ID	Device ID	Model	Name	Description	Version
✓	1	7	SB-IR-EM		Infrared signal emission, remote receiving module	HDL_V03.01U_2016/01/18
✓	1	16	HDL-MHC48IP.431		Room Control Host Module	Unread

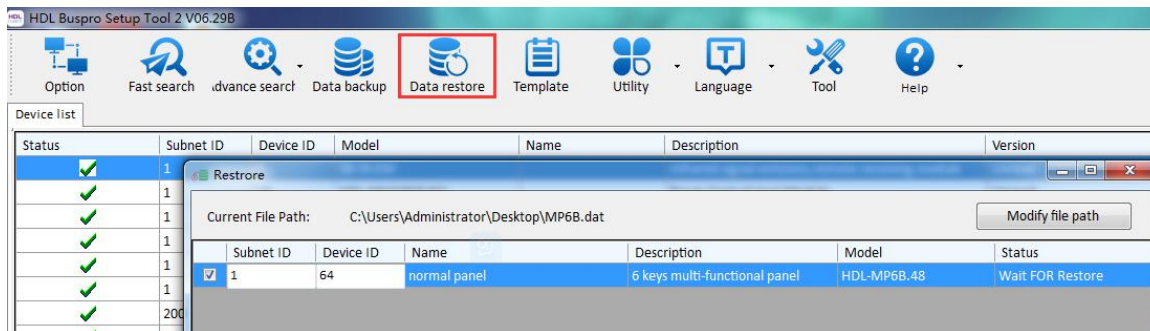
4. Data Backup and Restore

Backup: Searched the device first, and select the device to backup in Data Backup page.



Status	Subnet	ID	SubNet ID	Device ID	Model	Name	Description
✓	1	1	1	7	SB-IR-EM		Infrared signal emission, remote receiving module
✓	1	2	1	16	HDL-MHC48IP.431		Room Control Host Module
✓	1	3	1	17	SB-DN-48HNET		Hotel Room Control Host Module
✓	1	4	1	45	HDL-MPTLC43.46	43	Colorized DLP Panel
✓	1	5	1	64	HDL-MP6B.48	normal panel	6 keys multi-functional panel
✓	1	6	1	200	HDL-MC-48IPDMX.431		48 channels scene controller bus
✓	200	7	200	0	HDL-MCIP-RF02.10	wireless	Mesh Node
✓	200	8	200	21	HDL-MP4B-RF.18	iFlex test	4 key wireless multifunction panel generation 1
✓	200	9	200	173	HDL-MPT4-RF.16	iTouch test	4 key wireless multifunction glass touch panel
✓	200	10	200	211	HDL-MP6B-RF.18	6buttons	6 key wireless multifunction panel generation 1
✓	200	11	200	213	HDL-MPC01-RF.18	G1-C	1Ch Window Curtain controller
✓	200	12	200	214	HDL-MPD01-RF.18	G1-D	1ch 1.5A Dimmer
✓	200	13	200	215	HDL-MPR01-RF.18	G1-R	1 channels 8A relay driver
✓	200	14	200	222	HDL-MPL8-RF	Mixed panel	DLP Panel with AC Music Clock Floor Heating

Restore: Click the 'Data restore' button, select the backup file, and select the device which needs to restore.

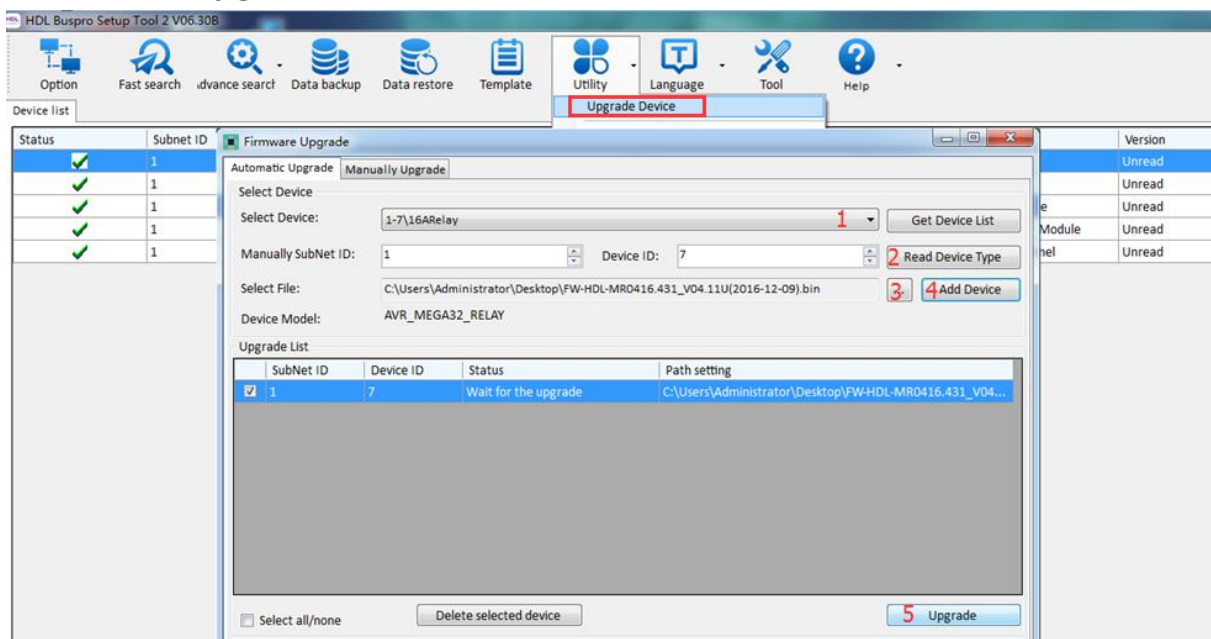


5. Device Online Upgrade

It is used for the normal panel series, HDL-MPL8.48, DIN rail series and sensor series, and they should support online upgrade function (if there is an "U" in the firmware version info, e.g. HDL_V04.10U_2016/05/23, it will support online upgrade)

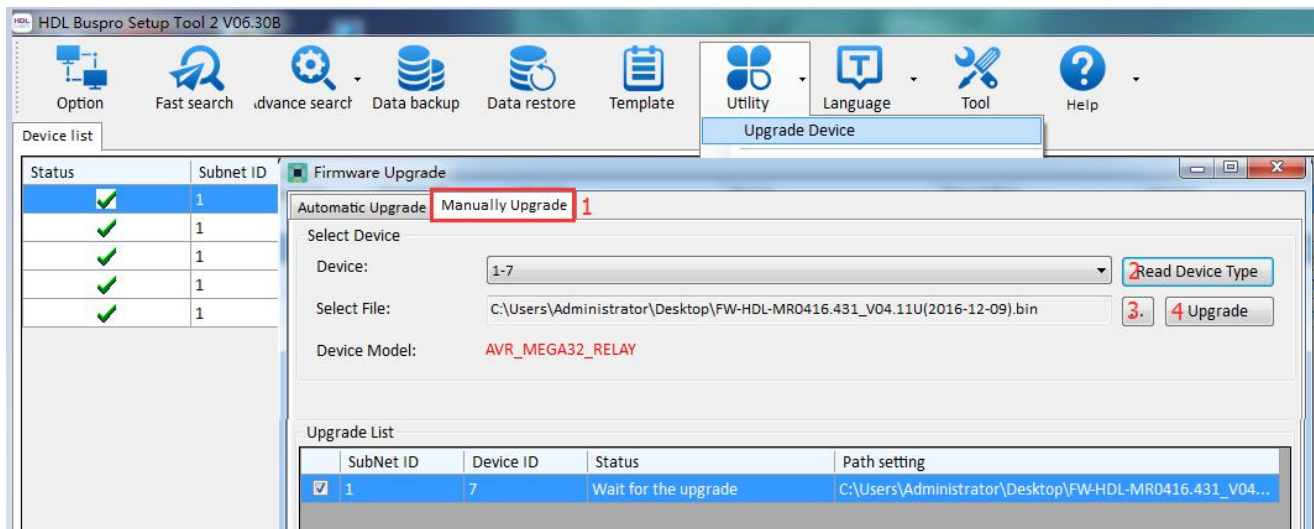
Device list						
Status	Subnet ID	Device ID	Model	Name	Description	Version
✓	1	0	HDL-MBUS01IP.431	Erin1	1 port switchboard	Unread
✓	1	7	HDL-MR0416.431	16ARelay	4 channels 16A relay IV	HDL_V04.10U_2016/05/23

5.1 Automatic Upgrade



- 1- Search the online devices, and go to Automatic Upgrade page, select the online device which needs upgrade.
- 2- Read device's type.
- 3- Select the upgrade file (*.bin).
- 4- Add the device to upgrade list.
- 5- Start upgrade.
- 6- Done.

5.2 Manually Upgrade



When automatic upgrade failed, can use manual upgrade to continue the upgrade.

- 1- Go to Manually Upgrade page, power off the device, keep pressing the **PROGRAMING** button when power on it.

How to press the PROGRAMING button?

For button panel, press the first and the last button together.

For HDL-MPL8.48, press the two bottom buttons together.

For DIN rail series, press the 'Prog' button.

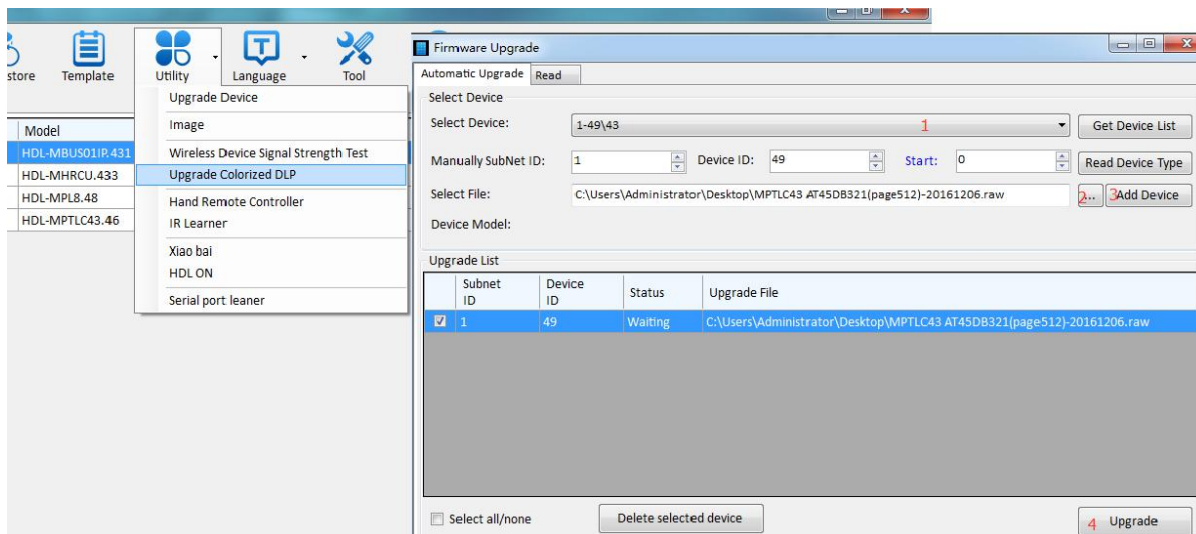
For sensor series, press the address modify button.



- 2- Read device type.
- 3- Select the upgrade file(*.bin).
- 4- Upgrade.
- 5- Done.

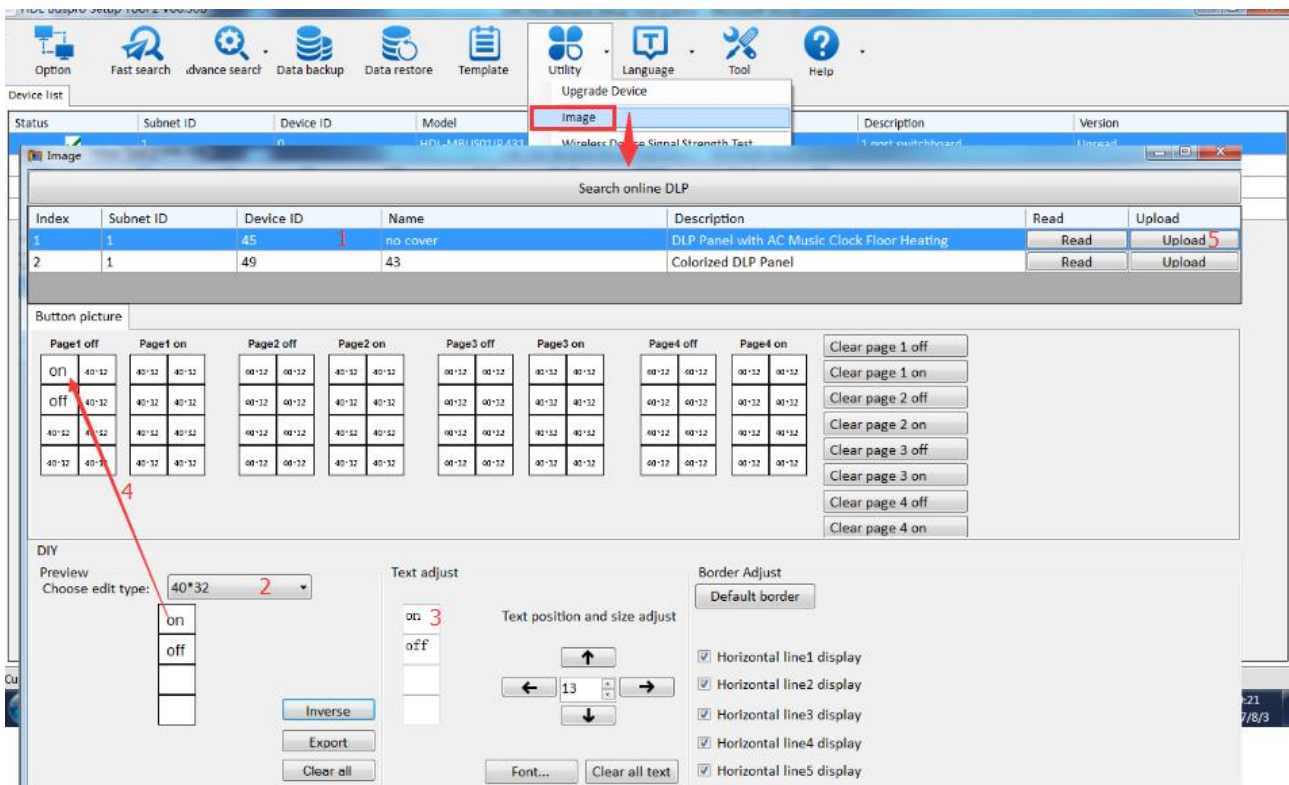
6. Upgrade Library of Colorized DLP

It can upgrade the library of enviro panel. If the interface of enviro's is disordered, you can try to upgrade its library.



- 1- Search the enviro panel, and go to 'Upgrade Colorized DLP' page, select the panel which needs upgrade.
- 2- Select the upgrade file (*.raw).
- 4- Add the device to upgrade list.
- 5- Start upgrade.
- 6- After upgrade, need to repower the gateway

7. Change Image for DLP



- 1- Search the DLP, and go to 'Image' page, select the DLP which needs to change icons.
- 2- Choose the edit type, the size must need to match the DLP button.
- 3- Edit the name.
- 4- Drag to the right position. Or you can doubt click the right position to add new icon.
- 5- Click 'Upload'.

Size for DLP:

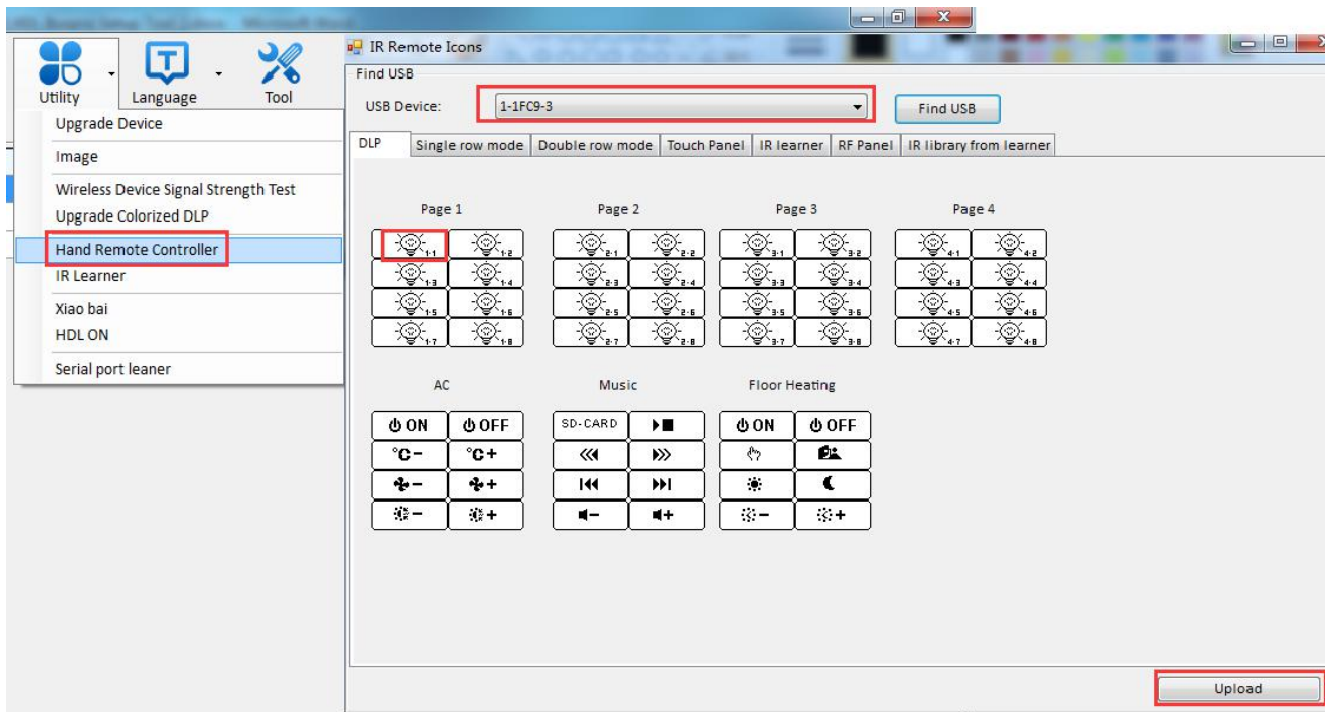
HDL-MPL8.48: 40*32

HDL-MPTL14.46: 40*48

HDL-MPTLC43.46: button: 46*46, background: 272*480

8. Change Image for Hand Remote Controller

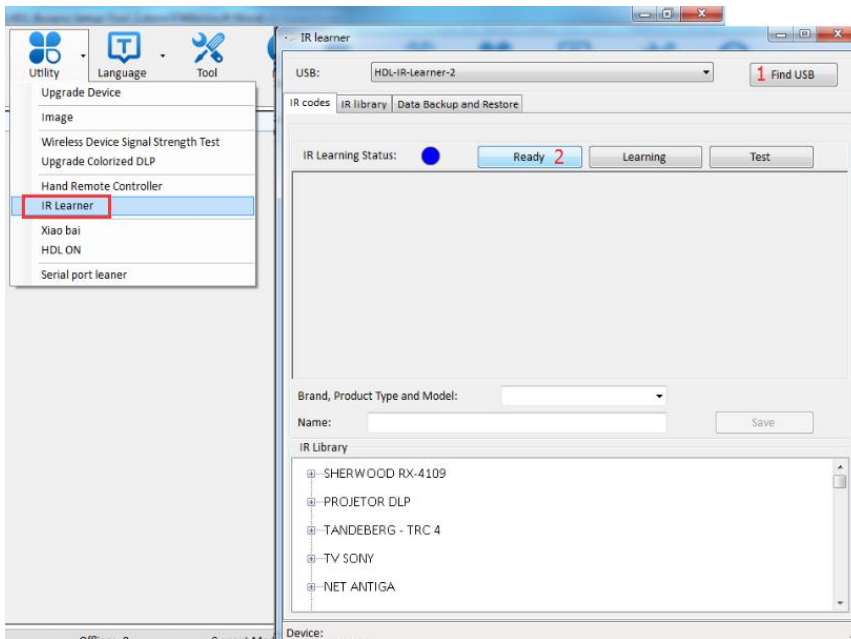
HDL-MTIRW hand remote controller can be changed the image by HDL Buspro Setup Tool 2.



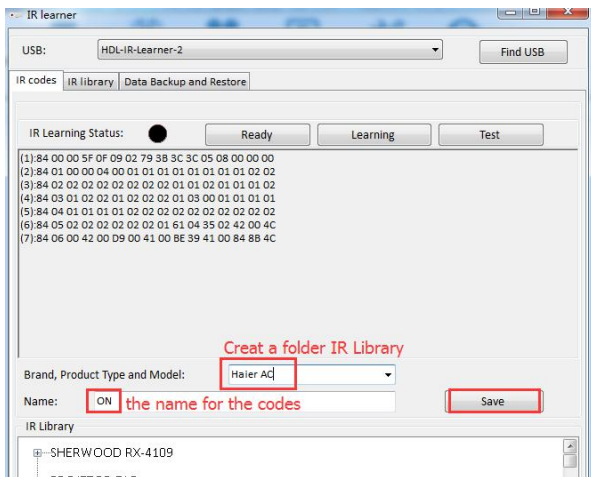
- 1- Connect the MTIRW module to PC via USB cable.
- 2- Go IR Remote Icons page, and select the USB device.
- 3- Double click the icon which you want to change, and select the new one.
- 4- Click 'Upload' button.

9. Learn IR Codes via IR Learner

Use HDL IR Learner (SB-IR-Learn.01) to learn the IR codes from 3rd part remoter.

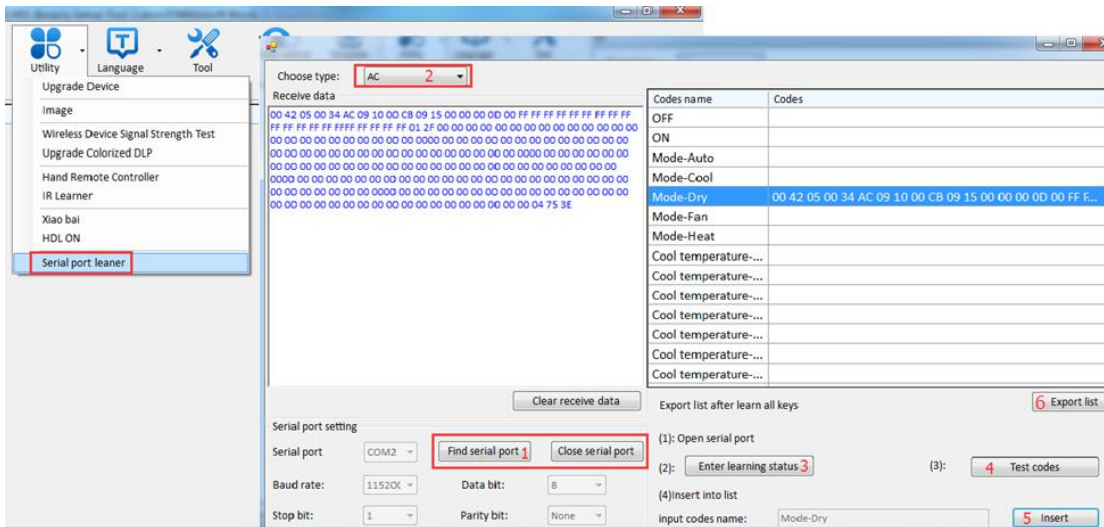


- 1- Connect the learner to PC via USB cable, and select the USB device.
- 2- Click 'Ready' button, the Red and Blue indicators of learner will turn on.
- 3- Put the 3rd party remote close to the IR learner and press the key you want the IR learner to learn.
- 4- Click 'Learning' button, will show the codes you have learnt. Click 'Test' button can test the codes which you learnt.
- 5- After tested, you can save the codes to IR Library.



10. Learn IR Codes via Serial Port Learner

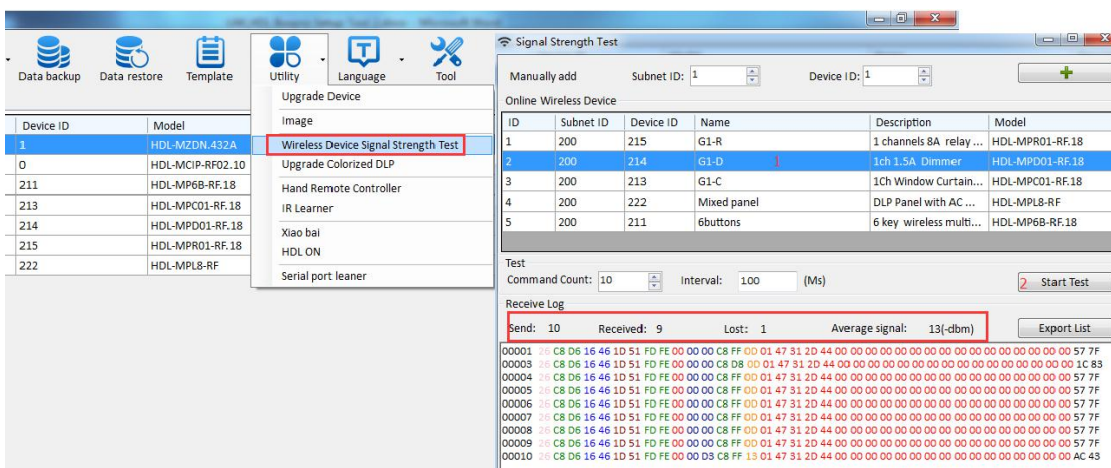
HDL has the new IR Emitter which including the IR Library. If the IR codes in this Library can not control your device, you can use the Serial Port Learner to learn the codes, and send to HDL. HDL will add your codes to IR Emitter's Library.



- 1- Connect the Serial Port Learner to PC, and open the serial port.
- 2- Select AC or Other type.
- 3- Click 'Enter learning status', put the 3rd party remote close to the learner and press the key which you want to learn.
- 4- Test the codes.
- 5- Insert the code to the list.
- 6- Export list and send to HDL, HDL will update the IR Library in IR Emitter.

11. Test Wireless Device Signal Strength

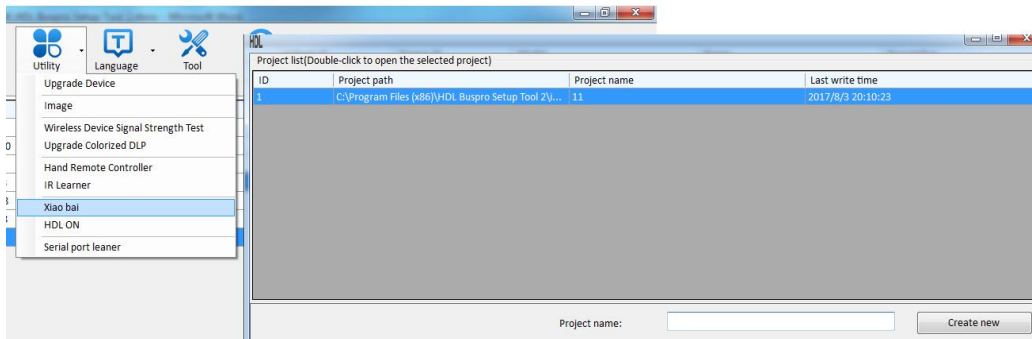
This tool can test the wireless device's signal strength. Search the online wireless devices first, and then go to 'Wireless Device Signal Strength Test' page to test.



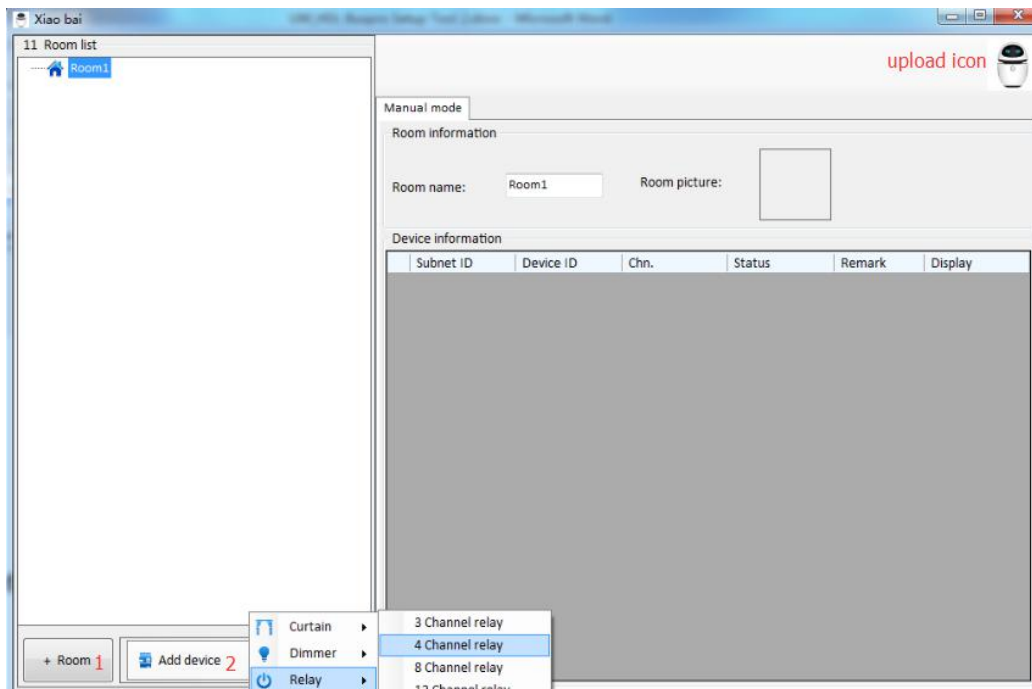
12. Create Project for Xiao Bai

HDL has integration with Xiao Bai machine, Buspro setup tool 2 can program the project and upload to Xiao Bai machine.

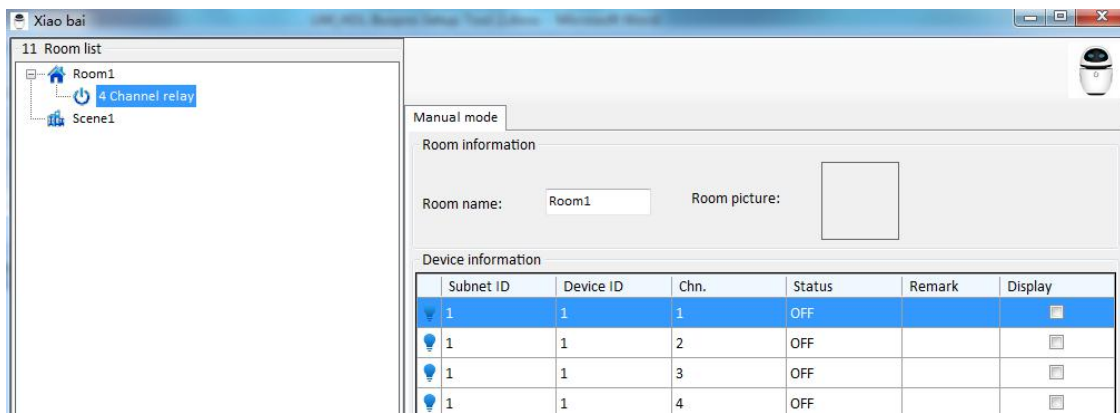
1- Create/Enter the project.



2- Add room and device.



3- Program the device.



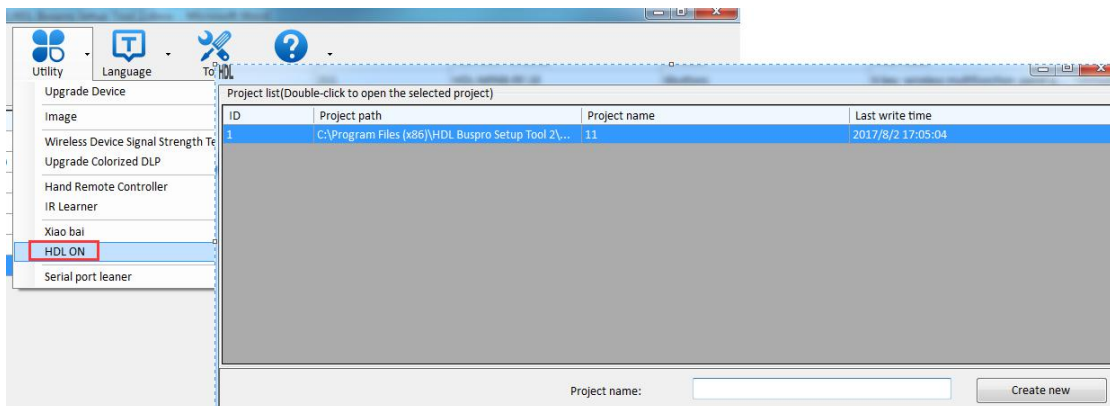
4- After programmed, upload to the Xiao Bai.



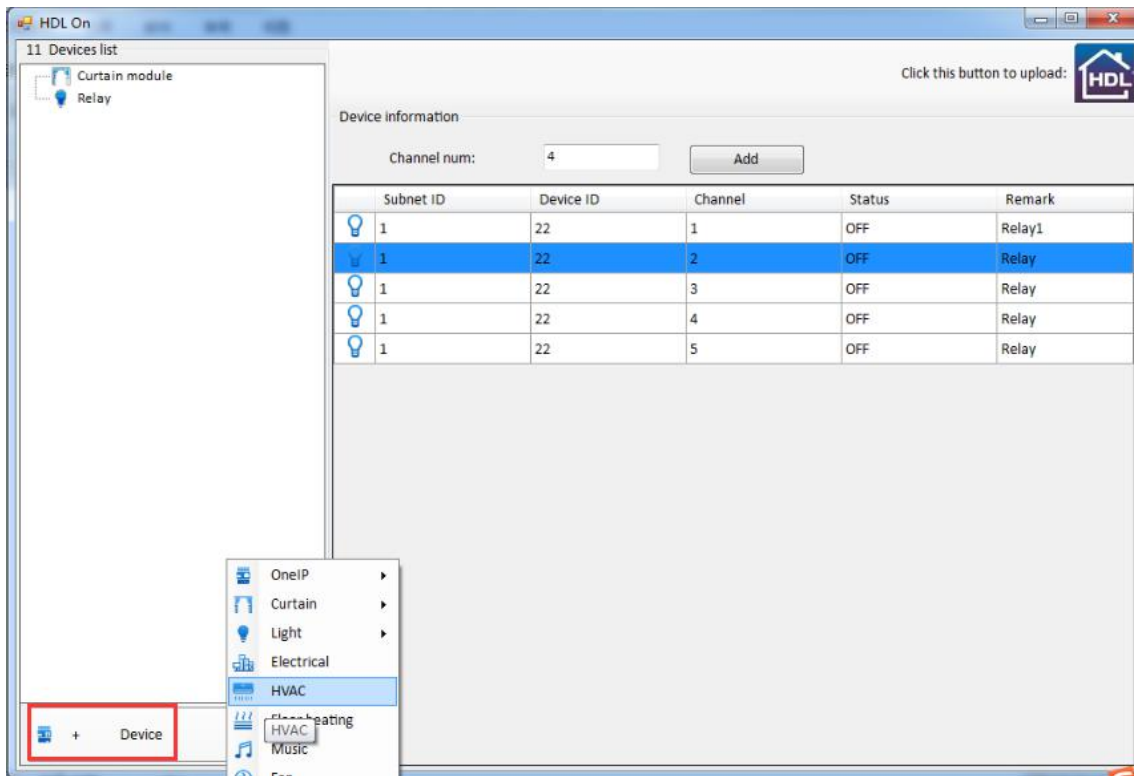
13. Create Project for HDL ON

HDL old devices are not support Easy Programming, then can not program in HDL ON app directly. But we can program that old devices in HDL Buspro Setup Tool 2, and then upload to HDL ON.

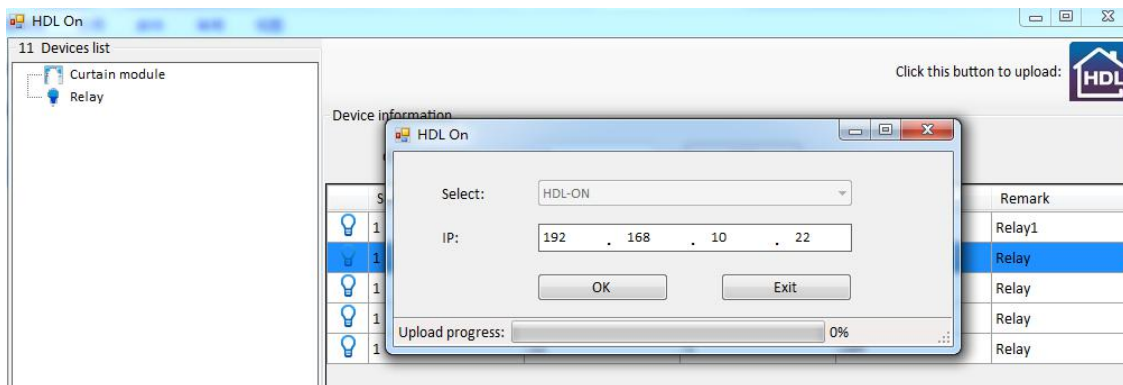
1- Create/Enter the project.



2- Add the device, and program the device.

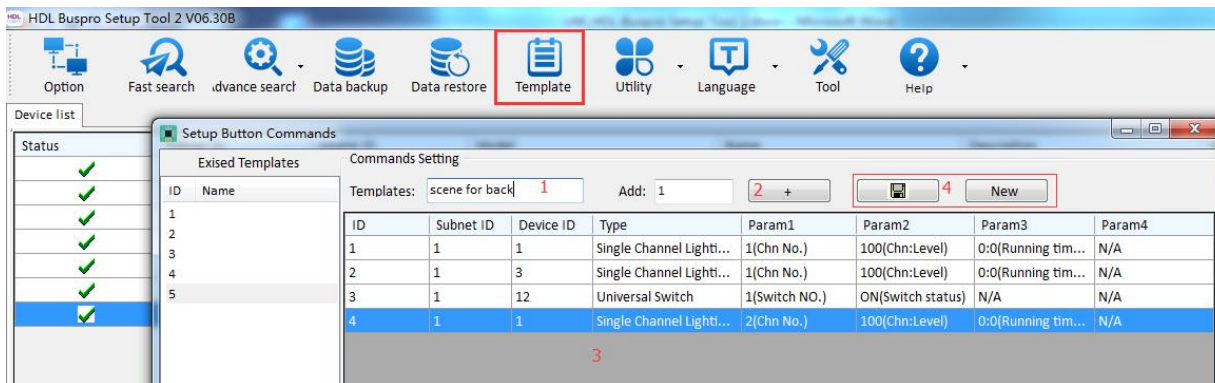


3- After programmed, upload to HDL ON. (For other program, need to go to HDL ON)



14. Template

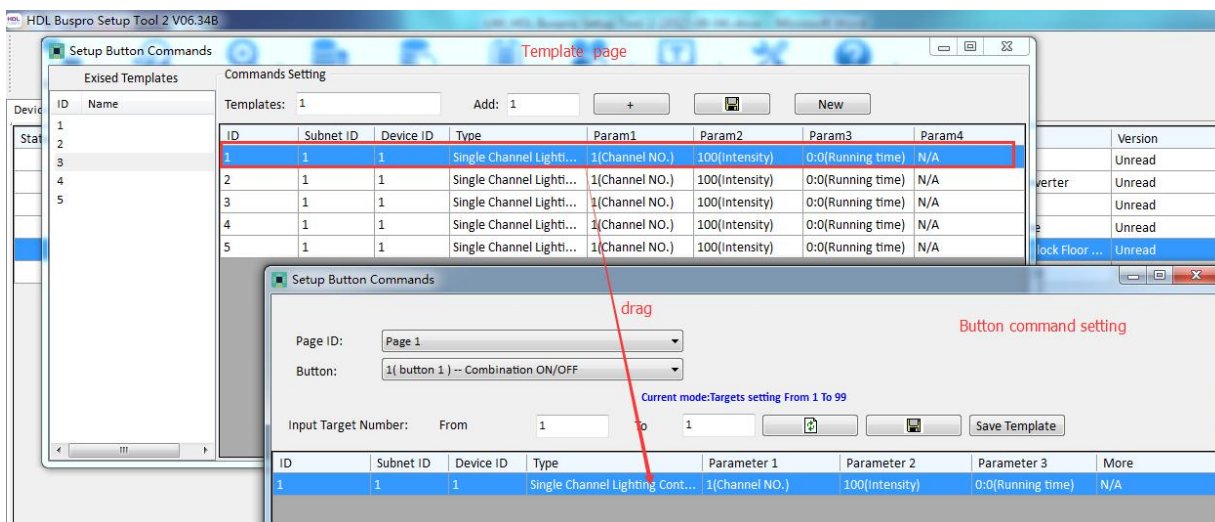
Can create the template, and use in output settings.



- 1- Make a remark for the template.
- 2- Add the target.
- 3- Program the target.
- 4- Save/Create the template.

HOW TO USE THE TEMPLATE?

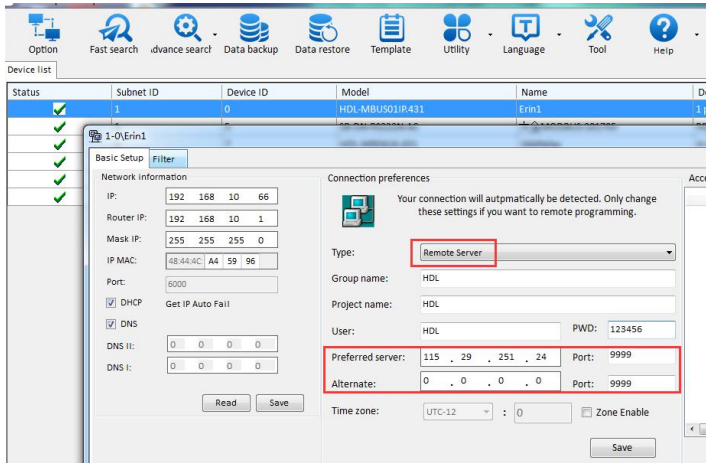
- 1- Open the pages of Template and Button Commands.
- 2- Drag the template to the button settings.



15. Remote Access

If the gateway enable the Remote Server function, then can use buspro software to remote access that project.

Enable Remote Access function in gateway: (take HDL-MBUS01IP.431 as an example)



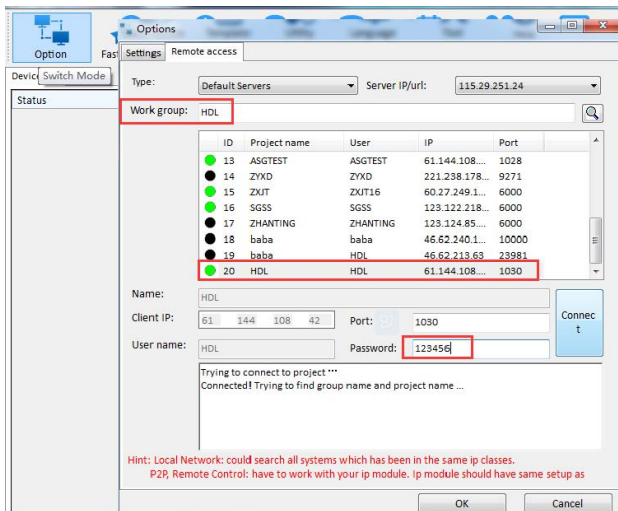
1- HDL-MBUS01IP.431 must be connected to internet.

2- In HDL-MBUS01IP.431, select Remote Server and fill in project/group/user name and password.

3- Fill in HDL server IP (115.29.251.24) and port (9999).

HOW TO REMOTE ACCESS THE PROJECT?

1-Go to Remote Access page, and fill in your group name, find your project, fill in password.

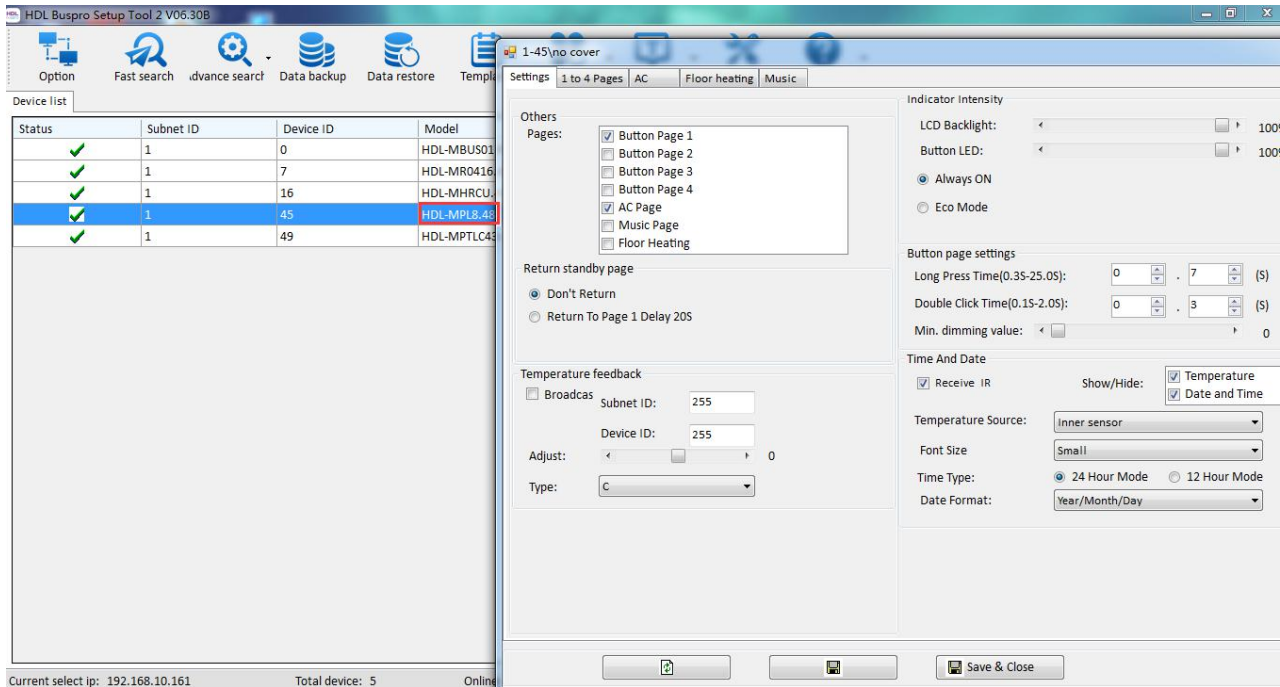


2- Click 'Connect' button, connect to that project.

3- Exit 'Option' page, can search the device in that project.

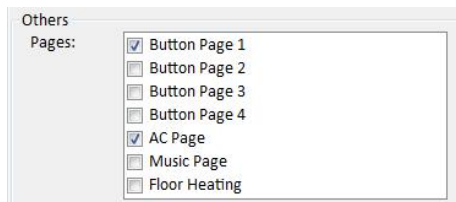
16. DLP

Search the online DLP, double click the module name can enter to the setting page.



16.1 Base Settings

1- Page display: the pages selected will be displayed on the panel.



2-Standby page:

Don't Return: never return after no operation.

Return To Page: return to the specific page after no operation in the designated time.

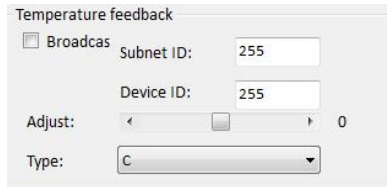


3- Temperature: DLP panel built in temperature sensor.

Broadcast: it can broadcast the detected temperature to specified device.

Adjust: adjust the temperature.

Type: C or F.



The 'Temperature feedback' window contains the following controls:

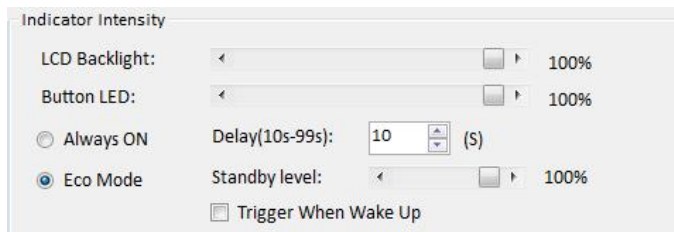
- ☐ Broadcast
- Subnet ID: 255
- Device ID: 255
- Adjust: A slider control with arrows at both ends, currently positioned in the middle.
- Type: A dropdown menu with 'C' selected.

4- Indicator Intensity: can modify the intensity of LED.

Always on: the backlight will be on always.

Eco Mode: the backlight will standby after no operation in the designated time.

Trigger When Wake Up: if unselect, the first time to press the button, only lighten the backlight, the second time to press the button will send out command; if select, it will lighten the backlight and send out the command at the first time.



The 'Indicator Intensity' window contains the following controls:

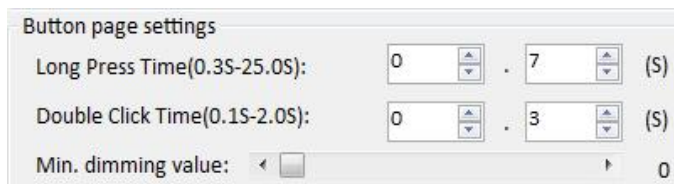
- LCD Backlight: A slider control with arrows at both ends, currently positioned at 100%.
- Button LED: A slider control with arrows at both ends, currently positioned at 100%.
- Always ON: A radio button.
- Eco Mode: A radio button, currently selected.
- Delay(10s-99s): A numeric input field with up/down arrows, currently set to 10 (s).
- Standby level: A slider control with arrows at both ends, currently positioned at 100%.
- ☐ Trigger When Wake Up

5- Press settings.

Long Press Time: define the long press time by end-user.

Double Click Time: define the double click time by end-user.

Min. dimming value: set the dimming lower limit.



The 'Button page settings' window contains the following controls:

- Long Press Time(0.3S-25.0S): Two numeric input fields with up/down arrows, currently set to 0 and 7 (s).
- Double Click Time(0.1S-2.0S): Two numeric input fields with up/down arrows, currently set to 0 and 3 (s).
- Min. dimming value: A slider control with arrows at both ends, currently positioned at 0.

6- Time And Date.

Receive IR: enable/disable the IR receiving function .

Show/Hide: show/hide the temperature and date.

Others: set the font size and time type.

Time And Date

☒ Receive IR Show/Hide: ☒ Temperature ☒ Date and Time

Temperature Source:

Font Size:

Time Type: ☒ 24 Hour Mode ☐ 12 Hour Mode

Date Format:

16.2 Button Settings

Set the button information.

ID	Name	Mode
1	button 1	Combination ON/OFF
2		Single ON/OFF
3		Single ON/OFF
4		Single ON/OFF
5		Single ON/OFF
6		Single ON/OFF
7		Single ON/OFF
8		Single ON/OFF

Button status

Association type

Targets setting

Save Save & Close

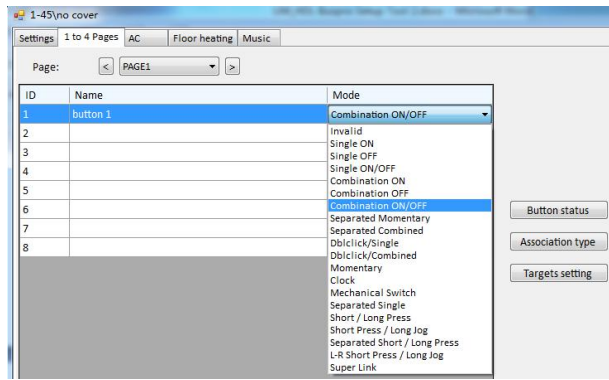
1- Select page.

Page:

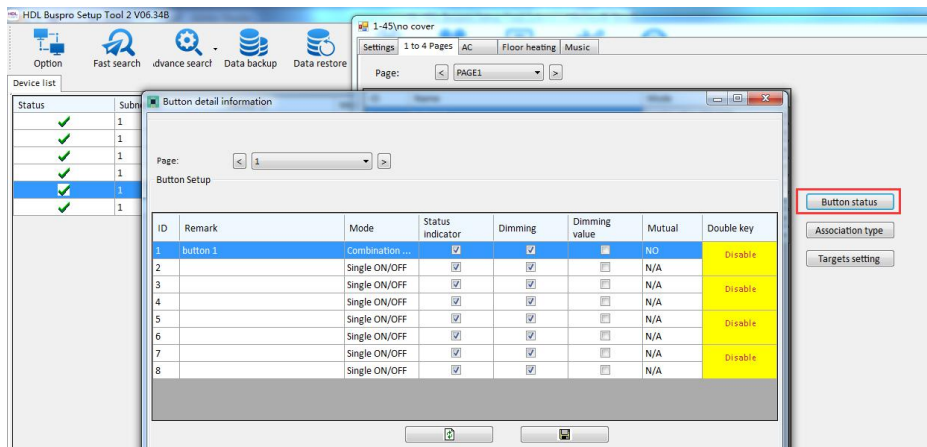
1 button 1

2- Modify the name and select mode for button.

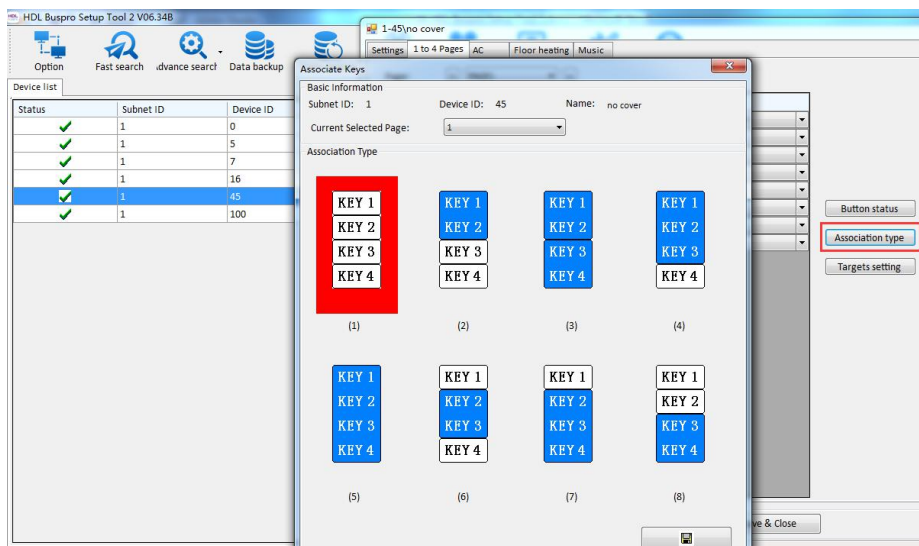
{HDL Buspro Setup Tool 2} User Manual



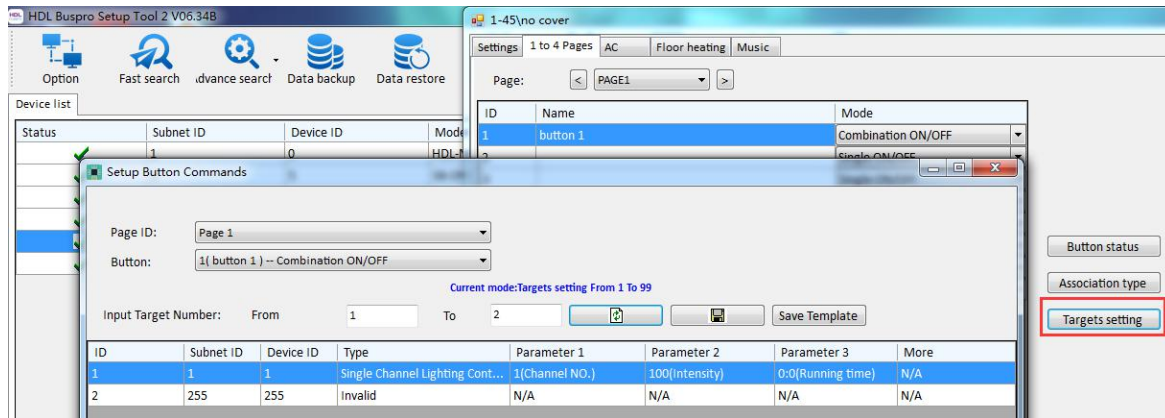
3-Button status.



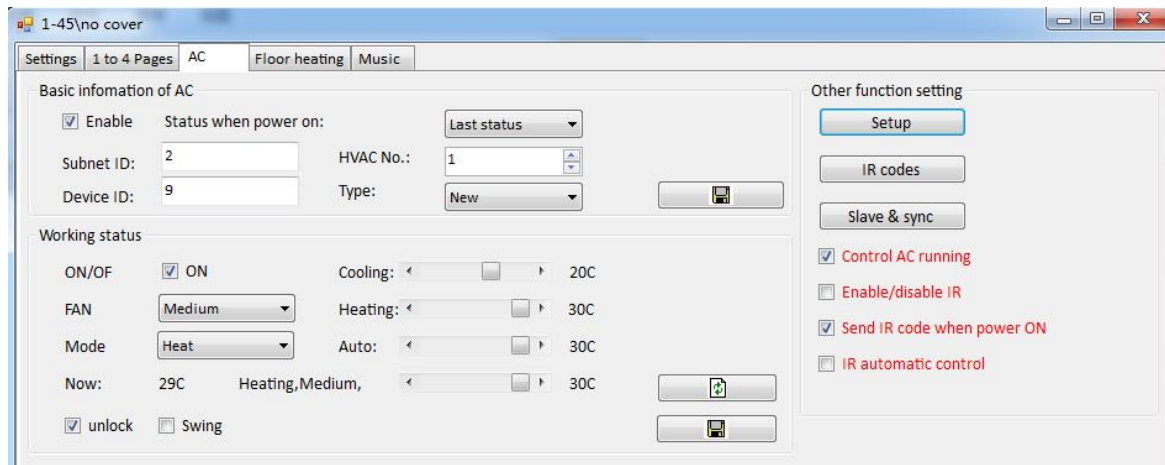
4- Associate the key



5- Targets setting:



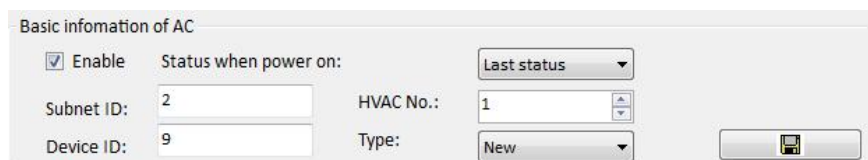
16.3 AC Settings



1- Control HVAC. Enter in the Subnet/Device ID of HVAC module and select type.

HVAC Number: For HVAC, it just can control one AC, then the HVAC No. is 1; for RS232 (AC version), you need to set the corresponding HVAC No. for different AC unit.

Type: For SB-DN-HVAC (5-relay outputs), select 'Old'; for HDL-MAC01.331(6-relay outputs) and RS232(AC version), select 'New'.



2- Test and control:

Unlock: can lock/unlock AC page in DLP.

Working status

ON/OFF ☒ ON Cooling: 20C

FAN Medium Heating: 29C

Mode Heat Auto: 30C

Now: 29C Heating, Medium, 30C

☒ unlock ☐ Swing

3- Other function for AC

Display/hid the mode in DLP. Set the temperature range. Select the temperature sensor.

HDL Buspro Setup Tool 2 V06.348

Option Fast search Advance search Settings 1 to 4 Pages AC Floor heating Music

Device list

Status	Sub
✓	1
✓	1
✓	1
✓	1
✓	1
✓	1

Setup

Temperature model Temperature range Temperature sensor

Operation

FAN: ☒ Auto ☒ High ☒ Medium ☒ Low

Mode: ☒ Cooling ☒ Heating ☒ FAN ☒ Auto ☒ Dehumidify

☐ Eco mode ☐ Swing

Other function setting

Setup

IR codes

Slave & sync

☒ Control AC running

☐ Enable/disable IR

☒ Send IR code when power ON

☐ IR automatic control

4- Control IR AC.

Select the position on DLP first, and then set the target for this position.

HDL Buspro Setup Tool 2 V06.348

Option Fast search Advance search Data backup Data Settings 1 to 4 Pages AC Floor heating Music

Device list

IR Targets

Function: OFF

Targets setting

Key function

OFF-1

Param1 Param2 Param3

N/A N/A N/A

Save 3

Other function setting

Setup

IR codes

Slave & sync

☒ Control AC running

☐ Enable/disable IR

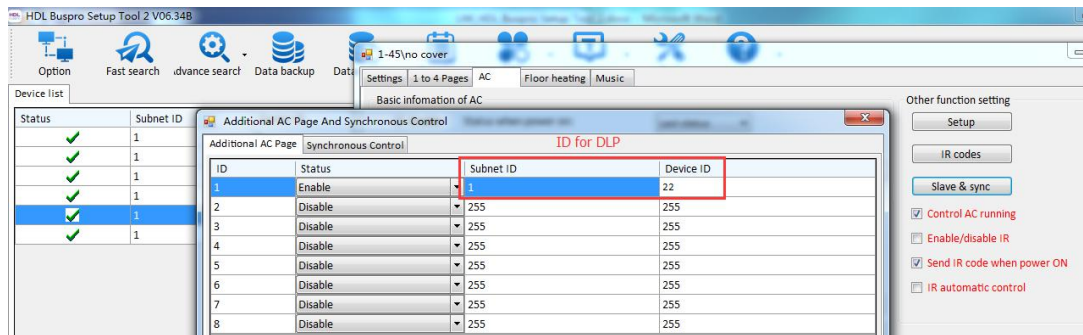
☒ Send IR code when power ON

☐ IR automatic control

5- Slave and synchronization for AC

Slave: After slave information is set, the slave DLP's AC page will display in this DLP.

Synchronization: After synchronization information is set, the AC status will synchronize to the DLP which you set in 'Synchronization' page.



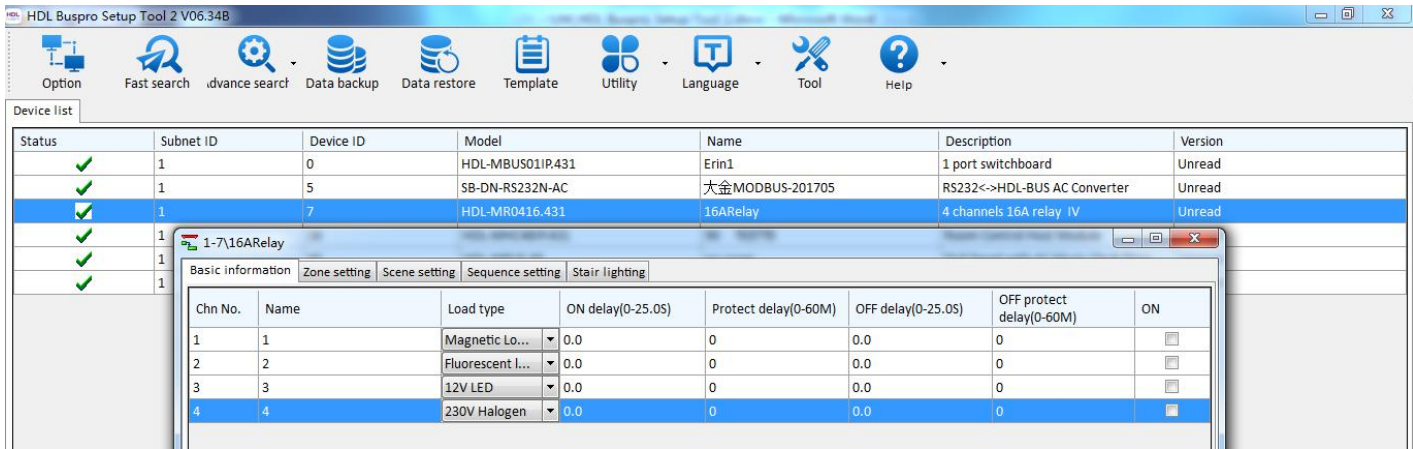
6- Control AC running

If selected, it can smartly control the mode and fan speed, this is specially used to control the SB-DN-HVAC(5-relay outputs) which has no built-in algorithm, it need the DLP to fully control.

For the HDL-MAC01.331, it has the built-in algorithm, set it in fully control mode, then it can control the mode and fan itself, in this case, DLP just the control interface, just leave the 'control AC running' option un-selected.

17. Relay

Search the online relay module, double click the module name can enter to the setting page.



17.1 Basic Settings

Double click can change the name/delay time.

Load type: It is a remark.

Switching On Delay: set the delay time to turn on load when receives on command.

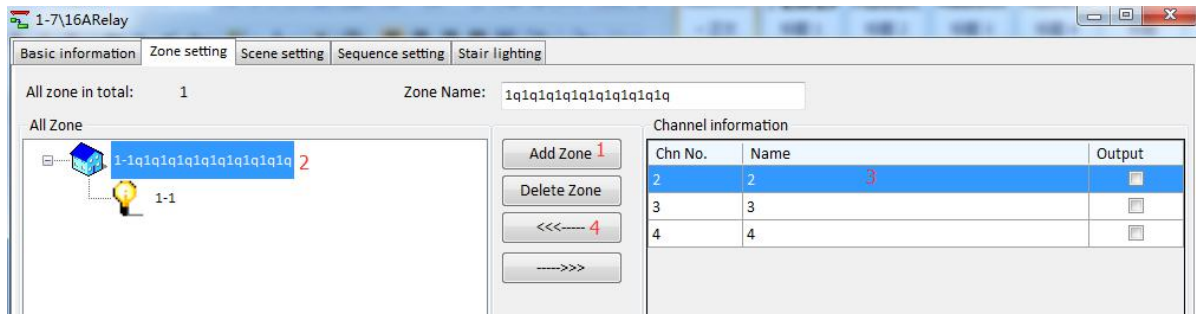
Protection Delay: when turn off load, can not turn on it immediately until the protection delay time elapse.

Off Power Delay: set the delay time to turn off load when receives off command.

Off Protect Delay: when turn on load, can not turn off it immediately until the off protect delay time elapse.

ON: Load test.

17.2 Zone Setting



1- Add the zone.

- 2- Select the zone.
- 3- Select the channel which need to be assigned.
- 4- Add to the zone.
- 5- Click 'Save' button to save.

17.3 Scene Setting

Different relay has different number of scenes. But Scene 0 is reserved by the relay, can not be edited, it is reserved for all off, the 'Running time' is editable.

Choose zone: 1-1q1q1q1q1q1q1q1q1q

Scene restore mode after power on: ☒ Scene before power off ☐ Specified scene

All scenes

Scene NO.	Name	Runtime(mm:ss)
0	all off	0 : 0
1	1	0:0
2	2	0:0
3	3	0:0
4	4	0:0
5	5	0:0
6	6	0:0
7	7	0:0
8	8	0:0

Channel Information

Chn NO.	Name	ON/OFF
1	1	OFF
2	2	OFF
3	3	OFF
4	4	OFF

Running time: the transient time before reaching the preset level.

Scene before power off: the channel's status must have lasted for at least 20 seconds before power failure, after power on again, will restore this status.

Specified scene (Scene restore): will trigger this scene when power on.

17.3 Sequence Setting

The each area supports 2 sequences.

Choose zone: 1-1q1q1q1q1q1q1q1q1q

Current sequence information

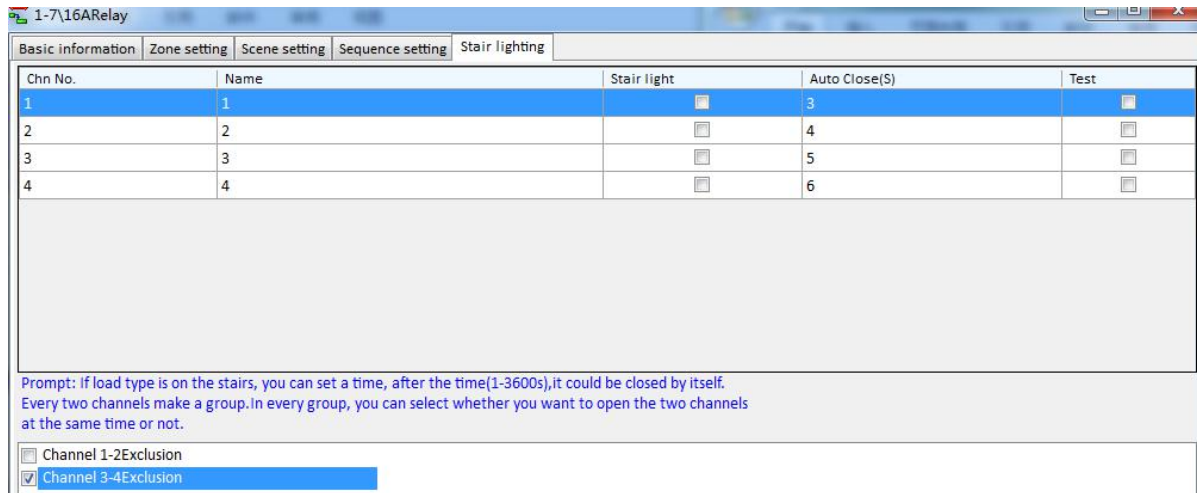
Sequence No.	Name	Mode	Run times	Step count
1	s1	Random Mode	9	4
2	s2	Forward Mode	15	4

Steps information for the current sequence

Step No.	Scene name	Duration(s)
1	1-1	1:1.1
2	2-2	1:1.1
3	3-3	1:1.1
4	4-4	1:1.1

- 1- Select the sequence.
- 2- Set the mode/run times/step count.
- 3- Set the step.

17.4 Stair Lighting



Chn No.	Name	Stair light	Auto Close(S)	Test
1	1	☐	3	☐
2	2	☐	4	☐
3	3	☐	5	☐
4	4	☐	6	☐

Prompt: if load type is on the stairs, you can set a time, after the time(1-3600s), it could be closed by itself.
Every two channels make a group. In every group, you can select whether you want to open the two channels at the same time or not.

☐ Channel 1-2Exclusion
☒ Channel 3-4Exclusion

Stairs lighting: the channel can close by itself when the time reach.

Mutual exclusion: chns 1-2 or chns 3-4 can be open at the same time or not.

Head Office

Guangzhou Hedong Electronic Co., Ltd

Address: No.24 jianzhong Road, Tianhe Development Zone of Hight&New Technology Estate, Guangzhou, 510665 China.

Tell: 0086 020-85521566

Fax: 0086 020-85520532

Factory base

Guangzhou Lichuang Electronic Co., Ltd

Address: No.86 Lotus west Road, Lifeng Street, Shilou Town, Panyu District, Guangzhou 511447, China.

Tell: 0086 020-84651666

Fax: 0086 020-84860772

Service hotline: 0086 020-85536533

www.hdlchina.com.cn