

# **User Manual**

**DLP** Series

MPL8.48

MPL8.46







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# 1. Overview

## 1.1 General Information

#### 1.1.1 Description

The multi-functional LCD panel is a new generation of wall mounted switch, with a total of 8 metal buttons each with a configurable LED. Both the plate and frame can be customized with different materials and colors to perfectly match your lifestyle.

#### 1.1.3 Serial Numbers







HDL-MPL8.48

# 1.2 Function Qualities Description

- Adjustable LCD Backlight and LED Indicators.
- Multiple pages- A specified page for Floor Heating, HVAC, and Music control is available.
- Each of the keys can have a user designed icon installed.



- Single button combinations and double button combinations are available.
- The mutual exclusion of buttons is available.
- Multi Key Mode: Invalid, Single on-off, single on, single off, Combination on-off, combination on, combination off, double click/single on-off, double click/combination on-off, momentary, clock, short/long press, short press/long momentary press, hyperlink.
- Multi Key control Modes: Scene, Sequence, timer switch, universal switch, single channel on-off, broadcast scene, broadcast channel, curtain, GPRS Control, Panel Control, alarm control, music play, General control.
- The following functions are included: IR Receiver, Lock, Turn on/off AC, Cooling & heating for AC. Auto temperature setting, Fan Speed regulation, AC Mode setting, AC Temperature regulation, backlight adjustment, AC Lock, Backlight and status light setting, floor heating temperature and mode setting etc.
- Communication : HDL Buspro
- Support online upgrade.
- Working with panel power interface.



# 1.3 Device Description



# 2. Technical Data

	MPL8.48	MPL8.46				
Electric Parameter :						
Power Supply	DC24V(from HDL-MPPI.48)	DC24V(from HDL-MPPI.46)				
Power Consumption	30mA/DC24V(from HDL-MPPI.48)	30mA/DC24V(from HDL-MPPI.46)				
Environmental Condi	tion :					
Working	0°C~45°C					
Working relative	Up to 90%					
Storage temperature	-20°C~+60°C					
Storage relative	Up to 93%					
Approved						
CE						
RoHS						
Production information	n :					
LCD resolution	240×80					
Dimensions	86×86×10.5 (mm)	86×116.5×10.5 (mm)				
Weight	141.5(g)	166(g)				
Housing material	Glass/Aluminum, ABS, PC					
Installation	EU Wall Box	US Wall Box				
Protection degree	IP20					

# HDL

# 3. Installation

# 3.1 Connecting

Please follow the below installation method.



Panel (MPL8.48) Panel power interface EU wall BOX (MPPI.48)

Installation: Hold the panel vertically then slowly insert it into the power interface module. Press gently on the four corners of the module to ensure an optimum coupling.







Separate the panel and the power interface

Separation : Insert the tip of a slotted head screwdriver into the split gap indicated in the diagram. Pry up and down, and the wiring hole

will open. Then separate the panel and MPPI.48.

# 3.2 HDL BUS Pro Description

#### **Connector Information**

bus	spro
DC24V	Red
COM	Black
DATA-	White
DATA+	Yellow

# 3.3 Commissioning

a) On the button menu, long press the first and last button for 3 seconds, as shown below.





- b) A new window will appear from the window, select "SYSTEM".
- c) In the new window, you will find a number of addresses from 001—107.
- d) Open the HDL-BUS Pro Setup tool.

e) Click the search button, it will show a new window, fill in panel's ID, and click the "+ADD" button, then search for the panel. Clicking the "Add all" button, will add the panel to the "ON-line devices" list.

Advanced Search: Subnet ID 255 Device ID 255 To 255	]						n-line devic	Search o
							nt. Search: S ddt S	Fast Sea Advance Manually
		tion	Description	Remark	Model	Device ID		

# 4. Software Configuration

4.1 Basic setting

DLP Panel with	h &C Music Clock Floor Heating	
Basic information Key ass	ignation Air conditioning function Floor Heating Music page basic setting	
Select device		Model picture
Device	1-107-HDL-MPL8.48-FH (YY 107)	
Configuration		
Model	HDL-MPL8.48-FH	
Subnet ID	1 Device ID 107	
Remark		
Remark	YY 107	
MAC address		
MAC	00.00.00.00.00.00.09	
L		
Indicator intensity		
LCD backlight:	<	
status ibdicator:	< 100 Save	
atoma Duicator.	ave loo	
		Upload picture
Modify subnet ID and dev	rice ID according to MAC	Upload X Delete Exit
Subnet ID	Device ID Save	



#### 4.1.1 Change the ID of the device

Every HDL-BUS device has one Subnet ID and one Device ID. The Device ID should be unique in its Subnet, and the Subnet ID should be kept consistent with the Gateway (typically the SB-DN-1IP or HDL-MBUS01IP.431).

#### 4.1.2 Remark

It is recommended that a description is given to the ID, to aid future system changes.

#### 4.1.3 Indicator intensity

LCD backlight:	Indicator intensity	
	LCD backlight:	 100
status ibdicator:	status ibdicator:	 100 🕞 Save

The brightness of the LED indicators and the LCD backlight can be adjusted, the backlight intensity can also be adjusted on DLP panel setting page.

# 4.2 Assigning designations for keys

The DLP has 7 pages. The first 4 pages are generic control pages, page 5 is an AC page, page 6 is a music page and page 7 is a floor heating page. The interface setting for page 1 to 4 in HDL-BUS Pro Setup Tool is shown in the below screen shot.





HDL-MPL8.48/MPL8.46

lect panel Device	1-107-HDL-MPL8.48-FH (YY 107)										Function Testing Test the Switch
ent key	1 Mode Combination on		Inp	ut function no. f	rom 1		3	Confirm			
information	1 1		Fu	nction configuration	n of current key						Key modification
Key no.	Remark	Mode		Function no.	Subnet ID	Device ID	Туре	Parameter 1	Parameter 2	Parame	Remark
1	Volume UP	Combination on		1	1	42	Single channel lighting contr		100(Intensity)	0.0(Rur	Mode
2	Volume Down	Combination off		2	1	42	Single channel lighting contr	2(Channel no.)	100(Intensity)	0:0(Rur	mode
3	Init(enable/disable)	Momentary		3	1	107	Panel control	Control Button Status	Key2	Valid	
4		Combination on/off									Modify function
5		Single on/off									Function
6		Single on/off									
7		Clock									Combination way
8		Short / Long Press									Pic Upload
											Mutual exclusion
											Double key Merge
											Key Status Setting
											Set
											IB and other functions
											IR and other functions

### 4.2.1 Remark

It is recommended that a description is given to each key, to aid future system changes.

Basic information Data acquisition mode Subnet ID 1 Remark Y Current page 1 Edit key remark	e Device Y 107	Model Device ID	HDL-MPL8.48-FH 107	Key modification Remark Mode
Key no.	Remark Volume UP			Modify function Function
2	Volume Down			Combination way

### 4.2.2 Mode

-Modify key mo	de			Mode
1	Single on/off	2	Single on/off	
3	Invalid Single on Single off	4	Single on/off	-Modify function
5	Single on/off Combination on	6	Single on/off	Function
7	Combination off Combination on/off dblcitck/isingle switch dblclick/Combination switch Momentary Clock Short / Long Press Short Press / Long Jog	8	Single on/off	Combination way Pic Upload Mutual exclusion

### Key mode:



#### Single on

If this is assigned the Switch can turn on one target only (one channel, one scene, one sequence, etc.)

#### Single off

If this is assigned the Switch can turn off one target only (one channel, one scene, one sequence, etc.)

#### Single on/off

If this is assigned the Switch can turn on/off one target only (one channel, one scene, one sequence, etc.)

#### **Combination on**

If this is assigned the Switch can turn on multiple targets (channels, scenes, sequence, etc.)

#### **Combination off**

If this is assigned the Switch can turn off multiple targets (channels, scenes, sequence, etc.)

#### **Combination on/off**

If this is assigned the Switch can turn on/off multiple targets (channels, scenes, sequence, etc.)

#### **Dblclick/single switch**

Double clicking can control up to 49 targets, a single click can only control 1 target

#### **Dblclick/combination switch**

Both double click and combination switch can control up to 49 targets

#### Momentary

Press to turn on the target, release it to turn off a target.

#### Clock

Selecting the clock allows you to set the time you wish to trigger a target automatically. Double click the panel key to enable/disable the clock function.

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Curre	ntkey 7	Mode Clock	Set Clock	₹	Edit key rem	ark				X
Ke	information			$\left  \right\rangle$	Basic information					
	Key no.	Remark	Mode		Subnet ID	1		Device ID	107	
	1	Volume UP	Combination on		Remark	YY 107		Model	HDL-MPL8.48-FH	
-	2	Volume Down	Combination off						-	
-	3	Init(enable/disable)	Momentary		Current page	1	A	ddress NO.	7	
-	4		Combination on/off		Edit key remark					
-	5		Single on/off		<ul> <li>Once</li> </ul>		◯Weekly		OMulti	
-	6		Single on/off		Unce		U weekiy		U Maia	
-	7		Clock							
-	8		Short / Long Press		Time		0:00:00	\$		
					Date(M/D	:	1 🗘 / 1	\$		
					_				_	
						Save		Exit		

#### Short /long press

Both short press and long press can control up to 49 targets

### Short /long Jog

Both short press and long Jog (long press to turn on, release to turn off) can control up to 49 targets

### 4.2.3 Function

			ULCIOF	]			
Туре		Parameter 1	Parameter 2	Running time(mm ss)	Dimmer		
Single channel lighting contro	~	1	100 📢 📖 👌	0 👩 : 0 👩	Valid 💌		Modify function
Scene -Seguence	^	2(Channel no.)	100(Intensity)	0:0(Running time(mm ss	Valid		Function
Timer switch		Control Button Status	Key2	Valid	N/A		
<ul> <li>Universal switch</li> <li>Single channel lighting control</li> </ul>		1	0	N/A	N/A		Combination way
Curtain switch - GPRS control	=	1	0	N/A	N/A		Combination way
Panel control		1	0	N/A	N/A		Pic Upload
Broadcast scene Broadcast channel Security Module Z-audio Control Universal Control	~						Mutual exclusion
							Double key Merge

#### Key type:

#### Scene

Enables a user to turn a scene on or off

#### Sequence



Enables a user to turn a sequence on or off

#### Timer switch:

Old command, abandoned

#### Single channel lighting control

Enables a user to turn a channel on or off

#### **Curtain switch**

Enables a user to control the curtain module (stop/open/close)

#### **GPRS** control

Enables a user to turn a send a message via the SMS module

#### Panel control

Shield button/page, control the AC and floor heating module, etc.

Enables a user to turn on or off all of the areas within the same scene.

#### Broadcast channel

Enables a user to turn on or off all the channels in one Dimmer, Relay or DMX controller.

#### Security module

Enables a user to control the security module.

#### **Z-audio control**

Enables a user to control the Z-Audio module.

#### **Universal control**

Enables a user to control the basic settings of a device from a panel. This feature makes the system more flexible for end-users. For more information, please refer to the universal control command\_ 12in1.xls, which can be download from:

ftp://59.41.255.150/HDL-BUS/HDL-BUS%2Products/ Sensors/SB-CMS-12in1/

#### Link page



Enables a user to turn immediately to a designated page in the DLP menu.

#### DALI Area dimmer

Enables a user to control a group of DALI ballasts, including dimming, via the SB-DN-DALI64 module.

#### **RGB** control

For HDL-MLED0605.432, 48DMX and 512DMX module (not ready to use)

#### IR control

For HDL Matrix device (not ready to use)

#### 4.2.4 Key combinations

When the keys are combined, only the functions of the top button will be active.



#### 4.2.5 Pic upload

To change the icon for a key, double click on a key and then click on the Pic Upload tab. The inactive icons are represented by the left hand 'normal' column, the active icons are represented by the right hand 'on' column.



Upload picture (pixels unit)			Combination way
Normal		ON	
<b>9</b> 1.1 <b>9</b> 12	Size:W=40,H<=32		Pic Upload Mutual exclusion
	Size:W=40,H<=32		Double key Merge
8 15 8 15	Size:W=40,H<=32		Key Status Setting
<b>\$</b> ,, <b>\$</b> ,.	Size:W=40,H<=32	<u>لية المجارية المحالمة المحالمة</u>	-IR and other functions
Download(new)	Clear all	Upload all	set

#### 4.2.6 Mutual exclusion

The key combination mode allows combination on, combination on/off, and mutual exclusion groups to be set. After a mutual exclusion group has been set, only the last key controlled can indicate its status (on), the status of other keys in mutual exclusion group will be off.

Ē	dit the mutu	al exclusion relationship	o between keys (condition Combi	nation on/off mode)-	Pic Upload
	Key no.	Remark	Mode	Mutual exclusion or not	Fic opidad
	1		Combination on/off	1	Mutual exclusion
	2		Combination on/off	1 💌	
	3		Single on/off	NO 1	Double key Merge
	4		Single on/off	<sup>2</sup> <sub>3</sub> Group No.	Key Status Setting
	5		Single on/off	4	Set

The mutual exclusion groups can enable the scenarios described below,

Key1 control (combination on) channel1 and 2 with a dimming level of 30%

Key2 control (combination on) channel1 and 2 with a dimming level of 60%

Key3 control (combination on) channel1 and 2 with a dimming level of 90%

Pressing keys 1, 2, and then three, will set the keys three LED indicators of both channels to 90%. If the mutual exclusion group is set to three keys, then the LED indicator of the key last pressed will be on, while the other indicators are off.



### 4.2.7 Double key merge

Edit Button Merge			Mu	tual exclusion	
Page No	Button	Merge Enable			
	12	Enable			uble key Merge
	34	Enable			uble key Merge
	56	Disable		Key Statu	us Setting
	78	Disable			Set
	12	Disable			
- 2	34	Disable		IR and ot	herfunctions
2	56	Disable			set
	78	Disable			

As an example if keys 1 and 2 are merged, then both keys will act as a single key. The functions of the right key (key 2) are the same as the left key (key 1).

#### 4.2.8 Key status setting

Key no.	Dimming value	Dimming	Keystroke status	1	Key Status Setting
1	Toggle	Valid	Valid		Set
2	Memory	Nvalid	💌 Invalid	~	
3	Toggle	Valid	Valid		IR and other functions
4	Toggle	Valid	Valid		set
5	Toggle	Valid	Valid		
6	Toggle	Valid	Valid		

#### Dimming value

The dimming value can be toggled when turning on the light, if this is done, the brightness can reach 100%.

Toggle- if selected, when turn on light, the brightness will go to 100%.

Memory- if selected, when turn on light, the brightness will go to last brightness before turn off

#### Dimming:

Valid- enable dimming when long pressed

Invalid- Disable dimming, just on/off



#### Keystroke status:

- Valid Enable the LED indicator of the key
- Invalid Disable the LED indicator of the key

#### 4.2.9 IR and other functions

Infrared receiving function setup				Function
Infrared receiving function starts:				Combination way
✓ Show Temp	📝 Show Tim	e		
				Pic Upload
Minimum Dimming Value setting				Mutual exclusion
Minimum Dimming Value:		>	2%	Double key Merge
Press Time Settings				Key Status Setting
long press Time(0.3s-25.0s):	0 💽 .	3	S	Set
DoubleClick Time(0.1s-2.0s):	 0	1	S	IR and other functions
	Save		📕 Exit	set

#### Infrared status

Allows a user to enable or disable the reception

Enable/disable the IR receiving function (accept HDL remote controller only)

#### Show temp

Enable/disable the DLP to display the temperature at the bottom of the LCD display.

#### Show time

Enable/disable the DLP to show the time at the bottom of the LCD display, the time is broadcasted by SB-DN-Logic960.

#### Minimum dimming value

Set the dimming lower limit.

The Lower limit is useful if you would like to skip the low level segment and dim from a certain level, say 40%. You want to skip it because maybe lower than 40% is impractical for you or maybe the load quality is not so good and trembles when at low level segment.



#### Long press time

Set time for long-press, define the long press by end-user.

#### Double click time

Set time for double-click, define the double click by end-user.

#### 4.2.10 Test the Switch

Test the key function in the software, rather than press the physical button.

Input the device basic information	Device basic information		
Subnet ID 1	Device ID	1	Function Testing
	Device ID	11	Test the Switch
Device ID 11	Remark	🔺 (	
	Туре	1-11-HDL-MPL8.48-FH ()	
	Keystrokes number	8	Key modification
Read the information	Simulation		Remark
	Keystroke (1) Mo	odeSingle on/off	Mode
	Keystroke (2) Mo	odeSingle on/off	
	Keystroke (3) Mo	odeSingle on/off	Modify function
	Keystroke (4) Mo	odeSingle on/off	Function
	Keystroke (5) Mo	odeSingle on/off	
	Keystroke (6) Mo	odeSingle on/off	Combination way
	Keystroke (7) Mo	odeSingle on/off	Pic Upload
	Keystroke (8) Mo	odeSingle on/off	Mutual exclusion

# 4.3 AC function page

Please refer to 'UM\_SB-DN-HVAC(MAC01.331).pdf'

Download it from:

ftp://59.41.255.150/en(enlish)/HDL%20Buspro/HDL%20Buspro%20Products/SB-DN-HVA C%20%20%20MAC01.331/



# 4.4 Floor heating page

Please refer to 'UM\_HDL-MFH06.432(Floor Heating Controller).pdf'.

Download it from: <a href="http://59.41.255.150/HDL-BUS/HDL-BUS%20Products/HDL-MFH06.432">http://59.41.255.150/HDL-BUS/HDL-BUS%20Products/HDL-MFH06.432</a>

4.5 Music page

Please refer to 'UM\_SB-Z-AUDIO(Digital Background Music Player)',

Download it from:

#### ftp://59.41.255.150/en(enlish)/HDL%20Buspro/HDL%20Buspro%20Products/SB-Z-Audio

### 4.6 Basic setting

#### 4.6.1 Page displays

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

DLP Panel with AC Music Clock Floor	r Heating	🛛
Basic information Key assignation Air conditioning function	Floor Heating Music page basic setting	
Page displays Backlit display and other settings		
Panel page		
Show page 1		
Show page 2		
Show page 3		
Show page 4		
✓AC Page		
Music Page		
✓ Floor Heating Page		
	Save	
		35



#### 4.6.2 Backlit display and other settings

DLP Panel with AC Mus	ic Clock Floor Heating	
Basic information Key assignation Air	conditioning function Floor Heating Music page basic setting	
Page displays Backlit display and othe	r settings	
Backlight display		
	• Always Show	
	O Designate specific time	
Backlight brightness	Sleep Mode	
Panel pages jump when no operati	on	
	⊙ Never jump	
	O Designate jump page	
	1	

#### Backlight display:

-- Always show: the backlight will be on always

-- Designate specific time: the backlight will dim down after no operation in the designated time

Backlight brightness: can change the backlight brightness.

#### Sleep mode:

In power save mode, if select "sleep mode", the first time to press the button, only lighten the backlight, the second time to press the button will send out command; if unselect "sleep mode", it will lighten the backlight and send out the command at the first time.

**Note:** the HDL-BUS Pro software version should be V10.18.03.08 or above.

#### Panel pages jump when on operation:

--Never jump: never jump after no operation in the designated time.



--Designate jump page: jump to the specific page after no operation in the designated time

# 5. DLP Setting Page

Long press the first button (key1 or key2) and the fourth button (key7 or key8) to enter into the setting page.



#### System:

Inside this item, long press the key1 or key2, you can modify the ID of the DLP (Subnet ID and Device ID), other functions in this item are straightforward to set.

#### Password:

You can set password for each page, when user forgets his/her 4-digit password, he/she can use the almighty password to unlock the page - 8465.

#### IR select:

Please refer to the doc – "08- SB-HHR-D.ppt".

Download it from: ftp://59.41.255.150/HDL-BUS/HDL-BUS%20Training%20Course/



#### Training%20Course/

#### Date Time:

In this item, you can specify the ID of SB-DN-Logic960 and the correct time and then long-press the key1 (or key2), "OK!" will then be shown, the clock in SB-DN-Logic960 is now corrected. (SB-DN-Logic960 has a real time clock).

#### Language:

Choose language –  $+ \uparrow \chi$  or English.

# 6. FAQ

#### 6.1 Panel FAQ001\_HDL BUSpro

#### Q:

We can use DLP to arm and disarm HDL's security system (SB-DN-SEC250K), but how can I prevent intruders to disarm my security system?

A:

You can set password to protect your security operation page on DLP (long press the first and fourth buttons at the same time on SB-DLP,

long press the first/second and seventh/eighth buttons at the same time on HDL-MPL8.48).

6.2 Panel FAQ002\_HDL BUSpro

#### Q:

There are "single on/off" key mode and "combination on/off" key mode, we find that the key with former key mode works correctly, the led indicator indicates

the on/off status correctly, but the latter one does not work that well, e.g., if I press the key to turn on the loads, the loads are on and so is the key indicator,

no problem about that, but if now I use other keys to turn off the loads, the "combination on/off" key indicator is still on, problem!

A:

When some of loads are on and some are off, then it is dilemma for the key indicator, so the key indicator of this key mode is designed so that it just toggles

when you press it, that is all. However, there is a solution for the problem you met, simply add one more command in your "other keys", i.e., "Panel control -> control button status",

send this command to the "combination on/off" key to turn on or off the key indicator directly.

### 6.3 Panel FAQ003\_HDL BUSpro

#### Q:

I have three keys, all of them are set as "combination on" keys, and all of them are configured to control the same two loads, but 30%, 50% and 80%, respectively.

After the configuration, I find that when I press the first key, loads are 30% and the key 1 indicator is on, when I go on to press the second key, the loads are 50%

and both key 1 and key 2 indicators are on, when I press key 3, loads are 80% and all of the key indicators are on, this is not a problem, but for me, ideally, I would

like only one key indicator is on, which is the last one I pressed, is it possible?

A:

Yes, You can refer to FAQ2, another method is to set these three keys in "mutual



exclusion", mutual exclusion works just as you have described - only the last pressed

key is on, all the other indicators for mutual exclusion keys (which are in the same mutual exclusion group) are off.

### 6.4 Panel FAQ004\_HDL BUSpro

#### Q:

The HDL-MPL8.48 has four physical keys (well, 8, actually, left and right) and two physical page-turning keys. I am trying to setup function like this: left key for dimming down,

right key for dimming down, is it possible?

#### A:

Yes, please follow the steps:

- 1) button 1 : mode single on
- 2) button 1 : single channel control ON
- 3) button 2 : mode single off
- 4) button 2 : single channel control OFF
- 5) put button 1 and 2 in a group,

use"Double key Merge, please refer to the screen shots.

#### 6.5 Panel FAQ005\_HDL BUSpro

#### Q:

Whenever I long press a button and try to dim up, I always want to dim to at least 50%, so any level lower than 50% is not practical at all for me, can I bypass the lower segment and dim upward from 50%, this saves me just a little pressing time, but still, is it possible?

A:

SubnetID: Remark:	1 YY 107	DevicelD: Modet	107 HDL-MPL8.48-FH	Modify function Function
Edit Button Me	erge			Combination way
Page No	Button	Merge Enable		
		Enable		Pic Upload
	3 4	Disable	<b>X</b>	Mutual exclusion
1	5 6	Disable		
	78	Disable		J
	12	Disable		Double key Merge
	3 4	Disable		4
2	5 6	Disable		Key status setting
	78	Disable		Set
	12	Disable		⊂IR and other functions
3	34	Disable		set
3	56	Disable	~	



Yes, there is minimum dimming setting in the Panel, please check the screen shot below.



### 6.6 Panel FAQ006\_HDL BUSpro

#### Q:

I can preset whether to save my customized level or not so that next time I turn it on it can recall my customized level or simply go to 100%, but If I choose the

former option and the load happens to be, e.g.,

fluorescent light, if you dim it too low and save, next time it is hard for you to turn it on, it is due to the characteristic of the gas-discharging light, not the problem

of the Dimmer, but in this case I need to limit the dimming range somehow. Even if I have a good load that can be dimmed from 0% to 100%, if the kids dim it to 1%, then

still it is hard to notice it is on, you press it again and again, it just toggles between 0% ad 1%, both are not so much noticeable. In both cases, chances are the end-user

will call me at midnight, how can I prevent this?

A:

There is such setting in the Panel, please refer to FAQ5.



# 7. NOTES

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