

HDL[®]



**Multifunctional LCD Panel
HDL-MPTL14.46**

Description

Multifunction LCD panel is the new design and new generation wall mount panel. It has 8 touch buttons, these buttons can be programmed separately. Each control button can be displayed with an icon in the LCD screen and customization for the end-user. There are 2 buttons to be used for the page shifting. 4 shortcut buttons can reach to the certain page, the page can be defined by user.



Functions

1. Adjustable LCD Backlight and LED Indicators.
2. Multiple pages- four normal button pages, one specified page for Floor Heating, HVAC, and Music control is available.
3. Each of the keys can have a user designed icon
4. Single button mode and double button mode are available.
5. The mutual exclusion of buttons is available.
6. The following functions are included: 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.

Settings

Set the LCD and LED brightness

Button settings and dimming value

**Enable/disable broadcasting the Temperature to other device
Adjust temperature**

Key settings

Settings | 1 to 4 Pages | AC | Floor heating | Music | LED color & shortcuts | LED white balance adjust | Sleep mode

Page-1 | Page-2 | Page-3 | Page-4

Selected button: 1 Mode: Single ON

Hint: 1. Double click button id to test it;
2. Click the button id to read its commands, would stop reading if there are three continuous commands are invalid.

ID	Name	Mode
1	Open	Single ON
2	Close	Single ON
3	Stop	Single ON
4	Shutter On	Single ON
5	Shutter Off	Single ON
6		Combination ON
7		Combination ON
8		Combination ON

Index	Subnet ID	Device ID	Type	Param1	Param2
1	42	12	Curtain Switch	1(Curtain No.)	Open(Switch ...

Button status

Association type

Targets setting

Save & Close

Device: | 42-5\panel

Key Mode

Frequently used key modes:

Single On: send out one ON command when pressed.

Single Off: send out one OFF command when pressed.

Single On/Off: send out one ON/OFF (toggle) command when pressed.

Momentary: send out one ON command when pressed down, send out one OFF command when released.

Combination ON: can send out up to 99 ON commands when pressed.

Combination OFF: can send out up to 99 OFF commands when pressed

Combination ON/OFF: can send out up to 99 ON/OFF (toggle) commands when pressed.

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

Key setting

Dimming:

Valid- enable dimming when long pressed

Invalid- Disable dimming, just on/off

Dimming value:

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

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

Keystroke status:

Valid - Enable the LED indicator of the key

Invalid - Disable the LED indicator of the key

Key setting

Mutual Exclusion:

The key combination mode such as combination on, combination on/off can be set to mutual exclusion. After setting mutual exclusion, only the last controlled key can indicate its status (on), other keys' status in mutual exclusion group will be off.

The screenshot shows a software window titled "Button detail information" with a "Button Setup" section. It contains a table with 8 rows of button configurations. Annotations include a red box around the "Combination ON" and "Combination OFF" modes, a red box around the "Mutual" column values "1" and "1", and a red box around the "Button status" label on the right. A grey callout box with red text says "Click here to set button status".

ID	Remark	Mode	Status indicator	Dimming	Dimming value	Mutual	Double key
1	Open	Combination ON	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Disabled
2	Close	Combination OFF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Disabled
3	Stop	Single ON	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	Disabled
4	Shutter On	Single ON	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	Disabled
5	Shutter Off			<input checked="" type="checkbox"/>	<input type="checkbox"/>		Disabled
6				<input checked="" type="checkbox"/>	<input type="checkbox"/>		Disabled
7				<input checked="" type="checkbox"/>	<input type="checkbox"/>	NO	Disabled
8		Combination ON	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NO	Disabled

Key setting

Frequently used command types:

Invalid: Disable the command.

Scene Switch: Used to recall the scene that you have created in the dimmer or relay.

Sequence Switch: Used To recall the sequence that you have created in the dimmer or relay.

Universal Switch: Used to send infrared code number, set logic flag On or Off, set the hotel door bell services , disable or enable Motion sensor, ...

Single channel lighting control: Used to turn on/off one channel (with brightness level & running time in the command)

Curtain Switch: Used to open, close or stop the curtain.

Broadcast scene: Used to recall some certain scenes (same scene no.) of all Areas of a dimmer or relay module.

Broadcast Channel: Used to turn on/off all channels of a relay module or set all channels of a dimmer to the same level.

AC

The screenshot shows the 'AC' settings page in the HDL software. The interface is divided into several sections:

- Basic information of AC:** Contains fields for 'Enable' (checked), 'Status when power on:' (OFF), 'Subnet ID:' (1), 'Device ID:' (100), 'HVAC No.:' (1), and 'Type:' (New). A red box highlights this section, with an annotation: "Fill in HVAC ID and select New type".
- Test:** Contains controls for 'ON/OFF' (ON), 'Fan speed:' (High), 'Mode:' (Cooling), 'Now:' (25C, FAN, High), 'unlock' (checked), 'Swing' (unchecked), 'Cooling:' (27C), 'Heating:' (18C), 'Auto:' (26C), and 'Dry:' (23C). A red box highlights this section, with an annotation: "Right click to refresh and read the status, or adjust the setting and save it to the DLP.".
- Other function setting:** Includes buttons for 'Setup', 'IR codes', 'Slave & sync', and checkboxes for 'Control AC running', 'Enable/disable IR', and 'IR automatic control'.

At the bottom, there are buttons for refresh and save, and a status bar showing 'Device: | 42-5\panel'.

AC

The screenshot shows the HDL software interface for configuring an AC. The main window is titled "42-5\panel" and has tabs for "Settings", "1 to 4 Pages", "AC", "Floor heating", "Music", "LED color & shortcuts", "LED white balance adjust", and "Sleep mode".

The "IR Targets" window is open, showing a "Function:" dropdown set to "Cool: Auto". Below it is a "Targets setting" table:

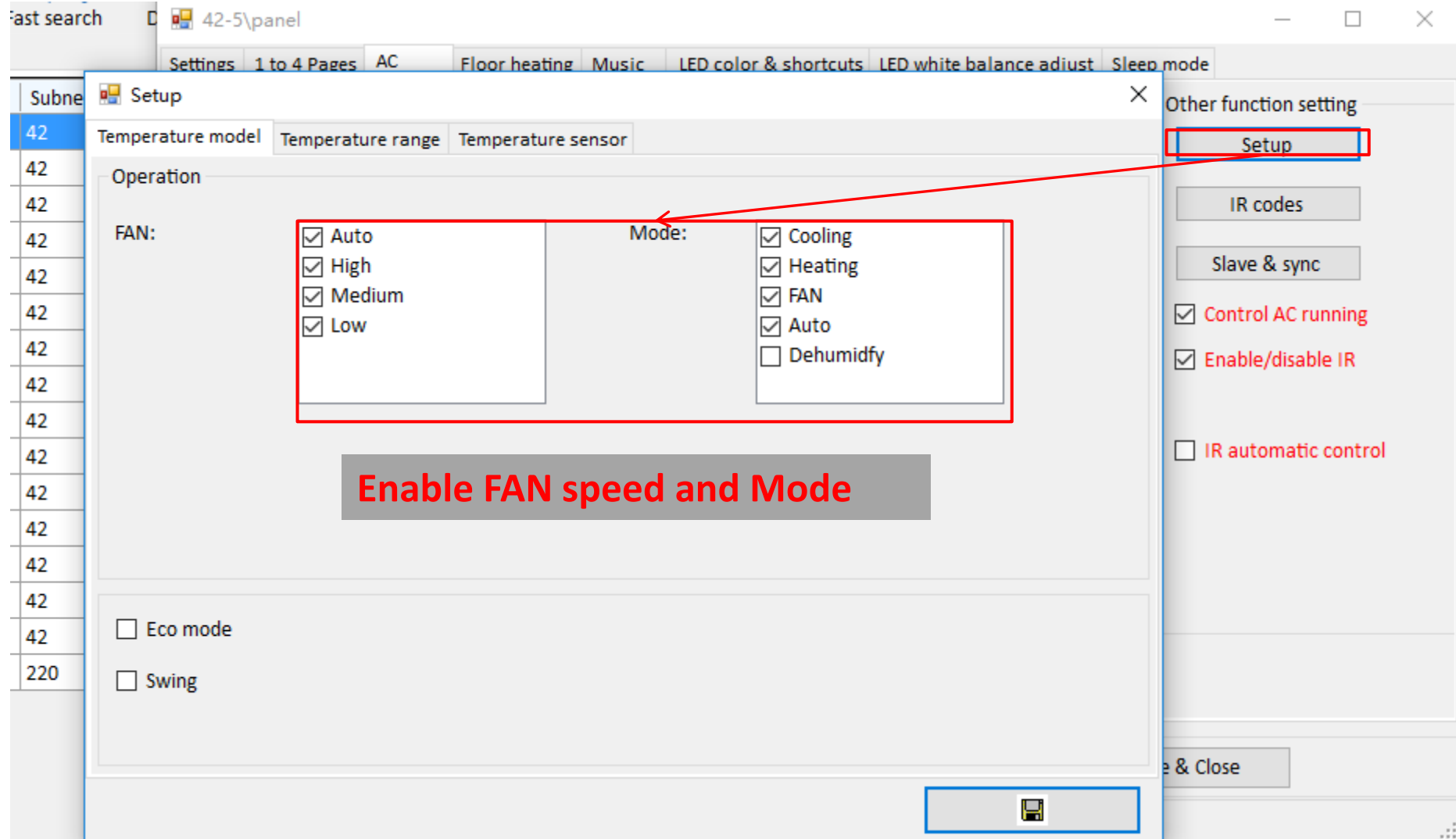
Key function	ID	ID		Param1	Param2	Param3
Cool: Auto-0C	42	15	Universal Switch	5	ON	N/A
Cool: Auto-1C	255	255	Invalid	N/A	N/A	N/A
Cool: Auto-2C	255	255	Invalid	N/A	N/A	N/A
Cool: Auto-3C	0	0	Invalid	N/A	N/A	N/A
Cool: Auto-4C	255	255	Invalid	N/A	N/A	N/A
Cool: Auto-5C	255	255	Invalid	N/A	N/A	N/A
Cool: Auto-6C	255	255	Invalid	N/A	N/A	N/A

The "Other function setting" window is also open, showing a "Setup" button, an "IR codes" button, a "Slave & sync" button, and two checked checkboxes: "Control AC running" and "Enable/disable IR".

Annotations in red text boxes provide instructions:

- "Click here to set IR code" points to the "IR codes" button.
- "Choose the function" points to the "Cool: Auto-0C" row in the table.
- "Check the box enable IR function" points to the "Enable/disable IR" checkbox.
- A larger box at the bottom left contains the text: "Send 'universal switch' to SB-IR-EM to control AC. Tips: the parameter 1 is the index no. in SB-IR-EM."

AC



AC

The screenshot shows the 'AC' settings window in the HDL software. The 'Basic information of AC' section includes an 'Enable' checkbox, 'Status when power on:' set to 'OFF', 'Subnet ID:' set to '1', and 'HVAC No.:' set to '1'. The 'Other function setting' section has a 'Setup' button highlighted with a red box. A red arrow points from this button to the 'Setup' dialog box.

The 'Setup' dialog box has three tabs: 'Temperature model', 'Temperature range', and 'Temperature sensor'. The 'Temperature range' tab is active. It displays settings for four modes: Cooling, Heating, Auto, and Dehumidify. Each mode has 'Minimum' and 'Maximum' temperature settings, each with a slider and a numerical value (18C and 27C respectively). A red box highlights the 'Temperature range' tab and the temperature sliders. A grey box with the text 'Set temperature range' is overlaid on the bottom of the dialog.

Mode	Minimum	Maximum
Cooling	18C	27C
Heating	18C	27C
Auto	18C	27C
Dehumidify	18C	27C

Buttons at the bottom of the dialog include 'Save' and 'Save & Close'. The main window also has 'Save' and 'Save & Close' buttons at the bottom.

AC

The screenshot shows the 'AC' settings window with a 'Setup' dialog box open. The dialog has three tabs: 'Temperature model', 'Temperature range', and 'Temperature sensor'. The 'Temperature sensor' tab is active, showing radio button options for 'Internal' (selected), 'External', and 'Average of internal and external'. Below these are eight sensor rows, each with a 'Disable' button, 'Subnet ID', 'Device ID', and 'Channel' dropdown menus. A red box highlights the 'Internal' radio button and the first two sensor rows. A red arrow points from the 'Setup' button in the background window to the 'Temperature sensor' tab in the dialog. A grey text box with red text 'Set temperature source' is overlaid on the first two sensor rows.

	Subnet ID	Device ID	Channel
Sensro 1:	255	255	255
Sensro 2:	255	255	255
Sensro 3:	255	255	255
Sensro 4:	255	255	255
Sensro 5:	255	255	255
Sensro 6:	255	255	255
Sensro 7:	255	255	255
Sensro 8:	255	255	255

Floor Heating and Music

For Floor Heating and Music configuration, please refer to floor heating module and Music module.

Device Information
 Mode: Floor Heating (dropdown) Slave Control (dropdown) Master (button)

Temperature sensor
 Inner sensor
 Read from bus
 Average of In & Out
 Protection temperature: Dis (button)
 Outdoor temperature: Dis (button)

Temperature range
 Range from: 5C (dropdown) To 35C (dropdown)

Working setting
 Output: Relay ON/OFF (dropdown) Min.-Max.PWM: 0% (dropdown) - 100% (dropdown)
 Heating Speed: Medium (dropdown) Control Cycle: 5(M) (dropdown)
 Day start at(HH:MM): 7 : 0 Night start time: 19 : 0
 Mode: Normal Night Timer
 Day Away
 Mode Changeover(auto mode-between floor heating and floor cooling): < [slider] > 2C
 Enable PID Always ON Sync command
 Sync Mode Sync ON/OFF Sync Temperature

Test
 ON Heating Now: 0C
 Mode: Day (dropdown)
 Normal: < [slider] > 20C
 < [slider] > 31C
 < [slider] > 20C
 < [slider] > 20C
 [Refresh] [Save]

[Refresh] [Save] [Save & Close]

Device: | 42-5\panel

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