HDL-MPL8-RF.18(16)-A

Modern Series Wireless DLP Smart Panel EU(US)

buspro WIRELESS

Datasheet

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Figure 1. HDL-MPL8-RF.18-A

Figure 2. HDL-MPL8-RF.16-A

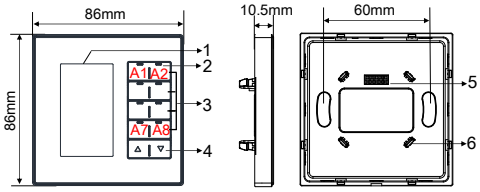

Figure 3 Figure 4 Figure 5

HDL-MPL8-RF.18-A

Figure 3 - 5. Dimensions

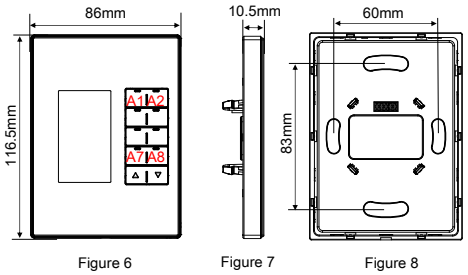

Figure 6 Figure 7 Figure 8

HDL-MPL8-RF.16-A

Figure 6 - 8. Dimensions

Overview

Modern Series Wireless DLP Smart Panel EU(US) (See Figure 1-2) is a multi-function control panel for home automation. With 8 control buttons and 2 page buttons, the panel has 4 general pages for lighting, curtains, etc. Dedicated pages are assigned for air conditioning, floor heating and background music playing. The panel should work in conjunction with the wireless power interface.

Functions

- Built-in temperature sensor;
- Multi-page control, dedicated page for floor heating, air conditioning, and music control;
- Adjustable LCD backlight;
- Icon for key buttons can be changed by user ;
- Button combination and double button combination function supported;
- The working voltage of the DLP panel is provided by the wireless power interface and a DLP panel can control 4 wireless power interfaces (for example, 3CH Wireless Switch Power Interface, 3CH Wireless Dimming Power Interface) at the same time.
- The panel adopts Buspro Wireless communication and works in conjunction with wireless mesh gateway.
- Various key modes: Invalid, Single on/off, Single on, Single off, Combination on, Combination off, Combination on/off, Double click/Single on/off, Double click/Combination on/off, Momentary, Alarm clock, Short/long press, Short press/Long momentary press;
- Various key control types: Scene, Sequence, Timer switch, Universal switch, Single channel lighting control, Broadcast scene, Broadcast channel, Curtain control, GPRS control, Panel control, Security module, Music control, Universal control, Link page, DALI area dimming, IR control, Logic RGB adjustment, Logic scene etc.
- Online update supported.

Important Notes

- The panel must be wall box mounted.
- The panel must work in conjunction with wireless power interface.
- The subnet ID of the panel must be the same as that of the wireless mesh gateway.

Product Information

Dimensions - See Figure 3 - 8

1. LCD screen: Icon display. users can design icon with professional management software

2. Button indicator: Used to indicate the status of the targets. When it is in on–status, the LED indicator on; When it is in off–status, the LED indicator off.

3. Control button: Used to control the status of the targets

4. Page button: Turning pages. 7 pages in total, one or more of which can be hidden.

5. Communication interface: Connects to wireless panel power interface.

6. Mounting slot: Connects to wireless panel power interface.

Dimming: When the control type is set to Scene or Single channel lighting control, keep pressing the button for dimming.

Subnet ID and device ID settings: The configuration of subnet ID and device ID should be set in the wireless gateway. Press Button A1 and Button A8, or Button A2 and Button A7 at the same time for about 2 seconds to enter the setting interface (including: system setting, other settings, password setting, infrared selection, date and time, language selection, wireless configuration). When wireless configuration is selected, the indicators of Button A7 and Button A8 are on and the panel will enter the configuration channel. At the same time, the gateway also needs to enter the configuration channel. Then the subnet ID and device ID of the DLP panel can be set, which must be the same as the subnet ID of the gateway.

Target and other parameter settings: After the subnet ID and device ID are set, the panel can be searched to set the target and other parameters of each button.

Product installation and disassembly

(Take HDL-MPL8-RF.18-A as an example)

Installation - See Figure 9 - 11

Step 1. Install the wall box in the wall.

Step 2. Fix the power interface onto the wall box with screws.

Step 3. Hold the edge of panel, and insert the panel in the slots of power interface vertically.

Disassembly - See Figure 12

Step 1. Insert the panel gap with a slotted screwdriver.

Step 2. Pry up the panel gently and hold the edge panel. Then the panel can be taken off.

Safety Precautions

- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- The device should be wall box mounted. HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this specification.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

Package Contents

HDL-MPL8-RF.18-A or HDL-MPL8-RF.16-A *1 / Datasheet*1

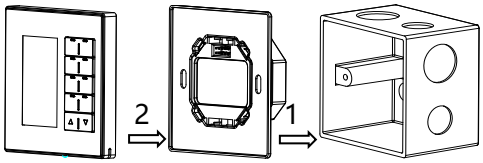

Figure 11 Figure 10 Figure 9

Figure 9 – 11. Installation

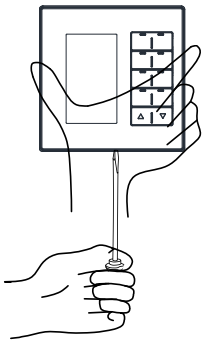

Figure 12. Disassembly

Technical Data

Basic Parameters

Working voltage	5V DC
Working current	55mA/5V DC
Wireless transmission power	+10dbm
Wireless sensitivity	-90dbm
Indoor communication distance	30m (barrier free)
RSSI (Received Signal Strength Indication)	>-80dbm
Factory frequency	Band, PSK (It is not recommended your setting of frequency and PSK be the same as the factory setting.)

Frequency Allocation

(China) WPAN	780MHz to 786MHz
(Europe) SRD	864MHz to 870MHz
(North America)	904MHz to 928 MHz
Default band	780MHz
Default PSK	HDL-SecurityKey0

External Environment

Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%

Specifications

LCD resolution	160x80
Dimensions	HDL-MPL8-RF.18-A: 86×86×10.5 (mm) HDL-MPL8-RF.16-A: 86×116.5×10.5 (mm)
Net weight	HDL-MPL8-RF.18-A: 109g HDL-MPL8-RF.16-A: 131g
Housing material	Glass, PC, ABS, Aluminum
Installation	Wall box (See Figure 9 - 11)
Protection rating (Compliant with EN60529)	IP20

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	×	-	-
Solder	×	o	o	o	-	-
PCB	×	o	o	o	o	o
IC	o	o	o	o	×	×
Glass	o	o	o	o	o	o

The symbol “-” indicates that the hazardous substance is not contained.
The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.
The symbol “×” indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

Technical support
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