

Product Name 产品名称	Panel & Frame 面板 & 边框	Model No. 型号
Tile Series OLED Panel (Plastic & metal versions) 方悦系列OLED面板 (塑料版本和金属版本)	OLED Panel OLED面板	HDL-MPL6B/TILE.48
	Frame 边框	HDL-MP1-EC/TILE.48



Figure 1. Tile Series OLED Panel
图 1. 方悦系列OLED面板

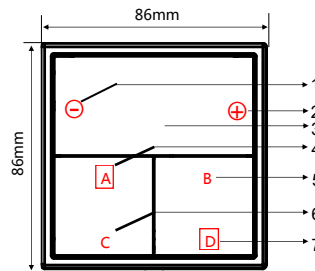


Figure 2. Dimensions - Plastic version
图 2. 尺寸图 - 塑料版本

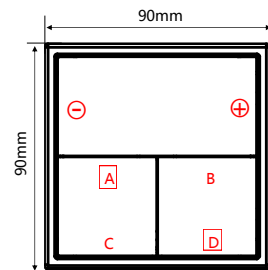


Figure 3. Dimensions - Metal version
图 3. 尺寸图 - 金属版本

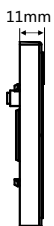


Figure 4. Dimensions - Side View
图 4. 尺寸图 - 侧面

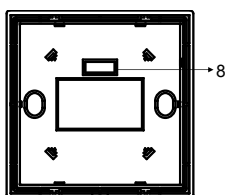


Figure 5. Components - Back View
图 5. 部件 - 背面图

Overview

Tile OLED Panel (See Figure 1) is divided into an OLED display and four pushbuttons, enabling controls of air conditioning, fan coil unit, floor heating and ventilation system. Parameters can be set by HDL Buspro Setup Tool or manually set on the panel. The brightness level can be set. The icons and text on the panel support laser labelling.

Functions

- Built-in temperature sensor and humidity sensor.
- Different pages for air conditioning, floor heating and ventilation system.
- Customizable icons and text
- Adjustable OLED backlight brightness
- Enables controls and settings: Page switching, Air conditioner on / off, Air conditioner mode setting, Air conditioner temperature setting, Air conditioner fan speed setting, Floor heating on / off, Floor heating temperature and mode setting, Floor heating channel selection, Ventilation on/off, Ventilation channel selection, Ventilation fan speed setting, Ventilation mode setting, Backlight brightness setting, Device ID setting, Standby time setting, Language setting.
- Online upgrade via HDL Buspro Setup Tool.

Important Notes

- The panel should be mounted on the wall box with power interface.
- It is recommended to connect wires in hand-in-hand.
- It is recommended to use HDL Buspro cable, 0.8mm single-core copper cable.

Product Information

Dimensions - See Figure 2 - 4

- “-” Button:** Select previous target, decrease temperature, set standby time and choose device ID.
 - “+” Button:** Select next target, increase temperature, set standby time and choose device ID.
 - OLED display:** Displays information such as icons and status.
 - Confirm button & switch pages:** Used to confirm information and switch pages between air conditioning, floor heating and ventilation.
 - Return button & switch modes:** Used to return to the previous page and switch modes of air conditioning and floor heating.
 - On/Off button:** Switch on/off of air conditioning, floor heating and ventilation system.
 - Fan speed button:** Used to switch fan speed of air conditioning and ventilation system.
 - Communication interface:** HDL Buspro bus connector
- Manual setting:** Press button A & D (see Figure 2 & 3) simultaneously for 2 seconds and enter setting mode to set OLED brightness, standby time, language, etc.

Components - See Figure 5

Installation - See Figure 6

- Step 1. Install the wall box in the wall.
- Step 2. Secure the power interface to the wall box with screws.
- Step 3. Install the panel on the power interface.
- Step 4. Install the frame around the panel.

Horizontal installation - See Figure 7

Vertical installation - See Figure 8

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 document.
- Please do not privately disassemble the device or replace parts, 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

Panel*1 / Datasheet*1

产品概述

方悦系列OLED面板(见图1)设有机械按键,每组按键功能可定制。OLED背光亮度可调,具有专门的空调、地暖、新风页面。页面参数可通过HDL Buspro软件设置或手动设置。

功能说明

- 内置温度传感器和湿度传感器
- 具有专门的空调、地暖和新风页面
- 用户自定义按键功能
- OLED背光亮度可调
- 面板控制包括:页面切换、空调开关、空调模式设置、空调温度设置、空调风速设置、地热开关、地热温度及模式设置、地热通道选择、新风开关、新风通道选择、新风风速设置、新风显示类型设置、背光亮度设置、设备号设置、待机时间设置、语言切换
- 支持HDL Buspro在线升级

注意事项

- 面板必须与电源底座配合使用,并暗盒安装。
- 总线连接 - 推荐使用手拉手连接方式。
- 总线电缆 - HDL Buspro专用电缆,0.8mm单芯铜线。

产品信息

产品尺寸 - 见图 2-4

- 向下选择按键:** 向下选择,温度、待机时间和设备号下调
 - 向上选择按键:** 向上选择,温度、待机时间和设备号上调
 - OLED屏:** 显示图标及页面信息
 - 确认按键&页面切换按键:** 用于确认信息&在空调页面,地暖页面和新风页面间切换
 - 返回按键&模式切换按键:** 用于返回上一级页面&空调模式切换和地暖模式切换
 - 开关按键:** 空调开关,地暖开关和新风开关
 - 风速切换按键:** 空调风速切换和新风风速切换
 - 通信接口:** HDL Buspro接口。
- 手动设置:** 如图2-3所示,同时按A和D按键约3秒,可进入手动设置模式。可进行系统设置(包括:设备号,OLED亮度调节,待机时间)和语言切换。

部件 - 见图 5

安装 - 见图 6

- 步骤1. 将底盒安装在墙上。
- 步骤2. 用螺丝将面板电源底座固定在底盒里。
- 步骤3. 将面板安装在电源底座上。
- 步骤4. 装上边框。

横向多联边框 - 见图 7

纵向多联边框 - 见图 8

安全警告

- 本设备的安装及调试工作必须由我司或我司指定的机构进行。其电气安装的计划和施工,必须遵守当地相关的安全标准和法规。
- 该产品需暗盒安装,未按照本说明书进行安装及接线方式的,所造成的一切后果皆与我司无关。
- 请不要私自拆装或更换零部件,否则可能会导致机械故障、电击、火灾或身体伤害。
- 请将一切维修工作交由我司售后部门或指定机构进行,本产品的保修范围不适用于因用户拆卸产品而导致的故障。

装箱清单

面板*1 / 说明书*1

Technical Data

Basic Parameters

Working voltage	12~30V DC
Working current	16mA/24V DC
Communication	HDL Buspro
Cable diameter of Buspro terminal	0.6-0.8mm

External Environment

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

Specifications

Dimensions	Plastic version: 86×86×11(mm) Metal version: 90×90×11(mm)
Net weight	Plastic version: 69g Metal version: 107g
Housing material	Plastic version: Flame retardant PC Metal version: Aluminum alloy
Installation	Wall box (See Figure 6)
Protection rating (Compliant with EN 60529)	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	x	-	-
Solder	x	o	o	o	-	-
PCB	x	o	o	o	o	o
IC	o	o	o	o	x	x

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 "x" 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.

HDL Buspro Cable Guide

HDL Buspro	HDL Buspro Cable
24V DC	Red
COM	Black
DATA-	White
DATA+	Yellow

技术参数

基本参数

工作电压	12~30V DC
工作电流	16mA /24V DC
通信协议	HDL Buspro
总线端子要求线径	0.6-0.8mm

外部环境

工作温度	-5°C~45°C
工作相对湿度	≤90%
储存温度	-20°C~60°C
储存相对湿度	≤93%

产品规格

尺寸	塑料版本: 86×86×11(mm) 金属版本: 90×90×11(mm)
净重	塑料版本: 69g 金属版本: 107g
外壳材料	塑料版本: 阻燃PC 金属版本: 铝合金
安装方式	暗盒安装 (见图6)
防护级别 (符合 EN 60529)	IP20

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
塑胶组件	o	o	o	o	o	o
五金铜件	o	o	o	o	-	-
螺丝组件	o	o	o	x	-	-
焊锡	x	o	o	o	-	-
PCB组件	x	o	o	o	o	o
IC	o	o	o	o	x	x

- : 表示不含有该有害物质。

o : 表示该有害物质在该部件所有均质材料中的含量均在IEC62321-2015规定的限量要求以下。

x : 表示该有害物质至少在该部件的某一均质材料中的含量超出IEC62321-2015规定的限量要求。

总线定义

HDL Buspro	HDL Buspro 电缆
24V DC	红
COM	黑
DATA-	白
DATA+	黄

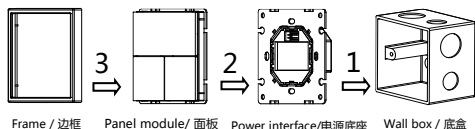


Figure 6. Installation
图 6. 安装图

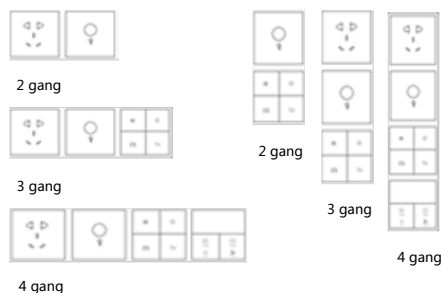


Figure 7. Horizontal installation
图 7. 横向多联边框

Figure 8. Vertical installation
图 8. 纵向多联边框

Notes: Metal panels can be installed either horizontally or vertically. Plastic panels can be only installed horizontally.

注意: 金属版本支持横向和纵向多联体安装, 塑料版本仅支持横向多联体安装。

Product name 产品名称	Frame Types 边框类型	Gang 联体数	Dimensions 尺寸
2/3/4-gang frames 多联边框	金属边框 Metal	2 gang 2联	176*90*10.5(mm)
		3 gang 3联	262*90*10.5(mm)
		4 gang 4联	348*90*10.5(mm)
	塑料边框 Plastic	2 gang 2联	172*86*10.5(mm)
		3 gang 3联	258*86*10.5(mm)
		4 gang 4联	344*86*10.5(mm)

技术支持

服务热线: 020-85820195

(工作时间: 9:00-12:00, 13:00-18:00, 星期一至星期五)

邮箱: kfb@hdlchina.com.cn

网址: http://www.hdlchina.com

Technical support

E-mail: support@hdlautomation.com

Website: https://www.hdlautomation.com