VBU-DS-IDP-W

Version V1.1

Product introduction

"VBU-DS-IDP-W" is a DALI controller for CASAMBI wireless, long-range network, with different fixture profile configuration, it can control up to 8 DALI devices individually or by group.

It integrates a DALI bus power supply.

Fixture profiles

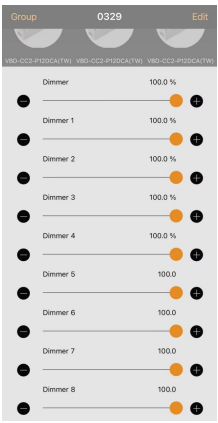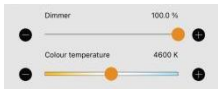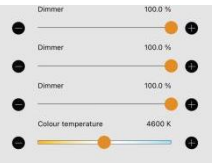| Profile#	Profile name in app	Description	Manual App Control	
39604	VBU-DS-IDP (1 ID-DT6)	DALI DT6 1xdimmer	Dimmer: A0	
39605	VBU-DS-IDP (2 ID-DT6)	DALI DT6 2 x dimmers	Dimmer: A0,A1 Dimmer1: A0 Dimmer2: A1	
39606	VBU-DS-IDP (3 ID-DT6)	DALI DT6 3 x dimmers	Dimmer: A0,A1,A2 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2	
39492	VBU-DS-IDP (4 ID-DT6) (Linear)	DALI DT6 4 x dimmers	Dimmer: A0,A1,A2,A3 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2 Dimmer4:A3	

VLINCA connect by CASAMBI

| 39595	VBU-DS-IDP (8 ID-DT6) (Linear)	DALI DT6 8 x dimmers	Dimmer:A0,A1,A2,A3,A4,A5,A6, A7 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2 Dimmer4:A3 Dimmer5:A4 Dimmer6:A5 Dimmer7:A6 Dimmer8:A7	
39607	VBU-DS-IDP (1 Group-DT8)	Control a group of DT8	Dimmer: Control all DT8 devices' brightness connected to the DALI BUS. Colour temperature: Control all DT8 devices' Colour temperature connected to the DALI BUS.	
42323	VBU-DS-IDP (3 ID-DT8)	DALI DT8 3 X dimmers	The first dimmer:A0 The second dimmer:A1 The third dimmer:A2 Colour temperature: adjusting temperature of the three DT8 devices.	
42322	VBU-DS-IDP (3 Group-DT8)	Control 3 groups of DT8 luminaires	The first dimmer:G0 The second dimmer:G1 The third dimmer:G2 Colour temperature: adjusting temperature of all DT8 devices connected to the VBU-DS-IDP-W conroller.	

Technical data

Nominal input voltage		100 ··· 240 Vac
Input voltage range		90 ··· 264 Vac
Input frequency		50/60 Hz
Input current		≤ 20 mA
No load Power consumption		< 0,5W
Output control interface		DALI
Max. number of drivers connected		8
Firmware update		OTA (Over The Air)
Protections		Short circuit protection Overload protection No-load protection
Operating temperature range		-20ºC ··· +40ºC
Max. casing temperature tc		65℃
Storage Temperature		-20ºC ··· +80ºC
Operating frequencies		2402–2480 MHz
DALI	Bus voltage	14-16 VDC
	Guaranteed current	20mA
	Maximum current	70mA
Wiring	Solid size	0,5 ··· 1,5 mm2
	Wire strip length	6,5mm
IP		IP20
Dimensions		146*35.5*28mm
Certifications		PSE

Wiring diagram

Wired it according to the following wiring diagram.
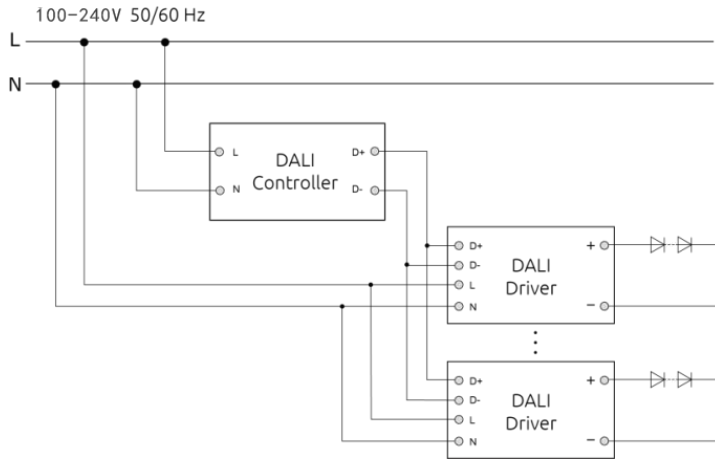
Change fixture profiles

_ After wired the DALI controller, it can be seen in "Nearby devices".

_ The default profile built in device is "VBU-DS-IDP (8 ID-DT6) (Linear)".

_ If need to change the fixture profile, make sure it is in unpaired status.

_ Select "Nearby devices", tap "VBU-DS-IDP (8 ID-DT6) (Linear)" icon, select "Change profile" (as in **Figure 1**).

_ Change the fixture profile to your desired (as in **Figure 2**).

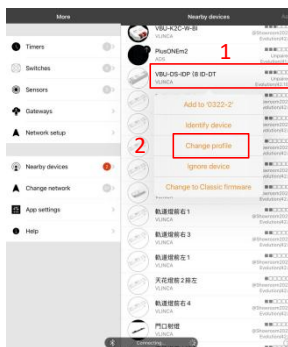_ After fixture profile is changed, click "check for updates" in the app to refresh the display.

Figure 1

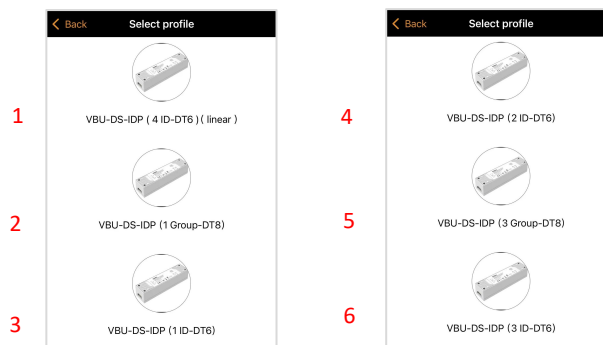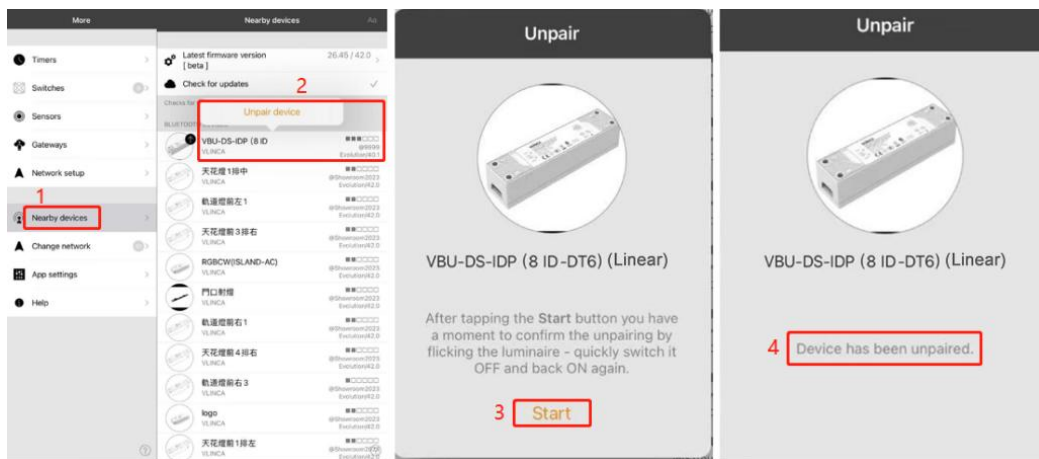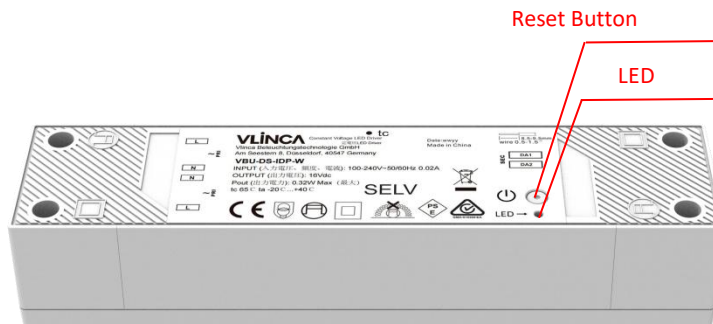Figure 2

Button and LED indication

Reset button:

To unpair the device from other network, follow the steps in **Figure 3**. Then, using a needle to reach the inside reset button (as in **Figure 4**), and it will implement "Switch OFF and back ON again".

LED indication:

The light flashes once indicate the device is successfully restarted.

Figure 3

Figure 4

Scan DALI devices

_ After paired the controller into network, it is visible in "Luminaires" tab.

_ Double tap "VBU-DS-IDP" icon, tap "Details".

_ Scan DALI devices to update connected devices' short address, group address, device type, make sure they are coincident with the fixture profile features. i.e.

    _ If the fixture is "control 4 DT6", then only the short address within 0~3 could be controlled.
    _ If the fixture is "control a group of DT8", then only DT8 device could be controlled, in broadcast mode.

⚠️ **Make sure no DALI addresses conflict in the bus.**

⚠️ **Do not assign a DALI driver to multiple groups.**

[----] : short address   [----] : group address   [----] : device type

Figure 5

DISPOSAL INSTRUCTIONS In line with EU

Directive 2012/19/EU for waste electrical and electronic equipment (WEEE), this electrical product must not be disposed of as unsorted municipal waste. Please dispose of this product by returning it to the point of sale or to your local municipal collection point for recycling.

COMPLIANCE STATEMENT

VLINCA declares that the VBU-DS-IDP-W fully complies with Directive 2014/53/EU.

Revision record

Version	Remark	Revision date
V1.0	Newly formulate	Dec 23, 2024
V1.1	Add two fixture profiles for DT8 devices control	Sept. 4,2025