



# **VBU-D-ITL**

Version V1.0

## Warnings

- \_ Check the information of the devices connected to the controller to see if they are compatible.
- \_ If damage or malfunction should occur during operation, immediately turn power off and send device back to the factory for inspection. Do not open, modify or repair the device. It does not contain serviceable parts.

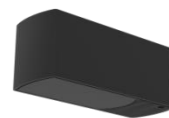
## Product introduction

“VBU-D-ITL” is a Casambi to DALI control device. It uses Bluetooth Low Energy communication to receive a command signal from the Casambi App and convert the command into DALI commands according to the selected fixture profile. Also, VBU-D-ITL has an integrated DALI bus power supply with 20mA guaranteed current, it can control up to 8 DALI LED drivers individually or by group.

There are many Casambi fixture profiles available for VBU-D-ITL that include different control modes: Broadcast, ShortAddress, Groups, DT6, DT8.



bus power supply



DALI controller





## Technical data


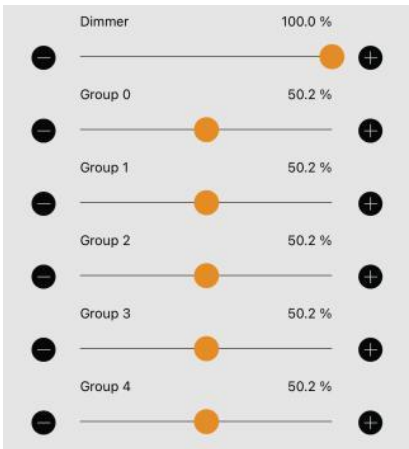
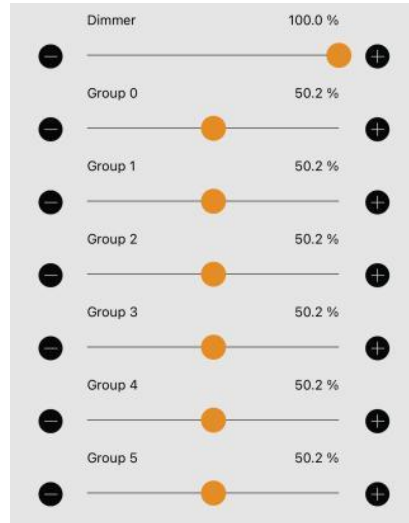
Rated supply voltage		48 Vdc
Input frequency		50 ... 60 Hz
Input current		≤ 10 mA
Power consumption standby		< 0,5W
Output control interface		DALI
Max. number of drivers connected		8
Firmware update		OTA (Over The Air)
Protections		Short circuit protection , Overload protection, No-load protection
Operating temperature range		-20°C ... +40°C
Max. casing temperature tc		50°C
Storage Temperature		-20°C ... +80°C
DALI	Bus voltage	14-16 VDC
	Guaranteed current	20mA
	Maximum current	60mA
RF	Communication interface	BLE
	Communication protocol	Casambi
	Operating frequencies	2402–2480 MHz
	Max. transmission power	+7 dBm
IP		IP20
Dimensions		L* W * H: 98*38*19.3mm
Certifications		CE

## Fixture profiles

Profile#	Profile name in app description	Description	Manual App Control	
34416	VBU-D-ITL (1 ID-DT6)	DALI DT6 1 X dimmer	Dimmer:A0 Dimmer1:A0	
34417	VBU-D-ITL (2 ID-DT6)	DALI DT6 2 X dimmers	Dimmer: A0,A1 Dimmer1:A0 Dimmer2:A1	
34418	VBU-D-ITL (3 ID-DT6)	DALI DT6 3 X dimmers	Dimmer: A0,A1,A2 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2	
34401	VBU-D-ITL (4 ID-DT6)	DALI DT6 4 X dimmers	Dimmer:A0,A1,A2,A3 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2 Dimmer4:A3	

34419	VBU-D-ITL (5 ID-DT6)	DALI DT6 5 X dimmers	Dimmer:A0,A1,A2,A3,A4 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2 Dimmer4:A3 Dimmer5:A4	
34420	VBU-D-ITL (6 ID-DT6)	DALI DT6 6 X dimmers	Dimmer: A0,A1,A2,A3,A4,A5 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2 Dimmer4:A3 Dimmer5:A4 Dimmer6:A5	
34421	VBU-D-ITL (7 ID-DT6)	DALI DT6 7 X dimmers	Dimmer: A0,A1,A2,A3,A4,A5,A6 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2 Dimmer4:A3 Dimmer5:A4 Dimmer6:A5 Dimmer7:A6	

30277	VBU-D-ITL (8 ID-DT6)	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	 <p>Dimmer 100.0 %</p> <p>Dimmer 1 50.2 %</p> <p>Dimmer 2 50.2 %</p> <p>Dimmer 3 50.2 %</p> <p>Dimmer 4 50.2 %</p> <p>Dimmer 5 50.2 %</p> <p>Dimmer 6 50.2 %</p> <p>Dimmer 7 50.2 %</p> <p>Dimmer 8 50.2 %</p>
34422	VBU-D-ITL (1 Group-DT6)	Control a group of DT6 luminaires	Dimmer:G0 Group0:G0	 <p>Dimmer 100.0 %</p> <p>Group 0 50.2 %</p>
34423	VBU-D-ITL (2 Group-DT6)	Control 2 groups of DT6 luminaires	Dimmer:G0,G1 Group0:G0 Group1:G1	 <p>Dimmer 100.0 %</p> <p>Group 0 50.2 %</p> <p>Group 1 50.2 %</p>
34424	VBU-D-ITL (3 Group-DT6)	Control 3 groups of DT6 luminaires	Dimmer:G0,G1,G2 Group0:G0 Group1:G1 Group2:G2	 <p>Dimmer 100.0 %</p> <p>Group 0 50.2 %</p> <p>Group 1 50.2 %</p> <p>Group 2 50.2 %</p>

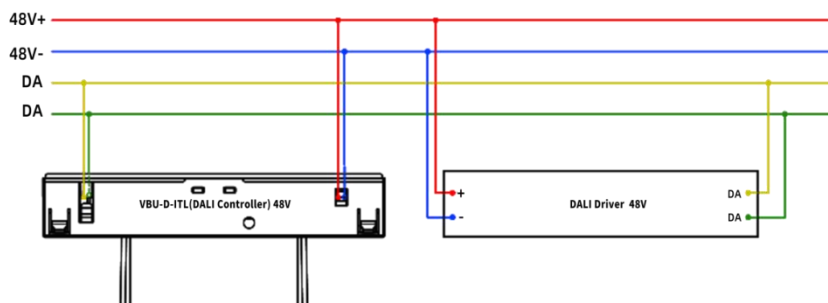
34425	VBU-D-ITL (4 Group-DT6)	Control 4 groups of DT6 luminaires	Dimmer:G0,G1,G2,G3 Group0:G0 Group1:G1 Group2:G2 Group3:G3	 <p>Dimmer 100.0 %</p> <p>Group 0 50.2 %</p> <p>Group 1 50.2 %</p> <p>Group 2 50.2 %</p> <p>Group 3 50.2 %</p>
34426	VBU-D-ITL (5 Group-DT6)	Control 5 groups of DT6 luminaires	Dimmer:G0,G1,G2,G3,G4 Group0:G0 Group1:G1 Group2:G2 Group3:G3 Group4:G4	 <p>Dimmer 100.0 %</p> <p>Group 0 50.2 %</p> <p>Group 1 50.2 %</p> <p>Group 2 50.2 %</p> <p>Group 3 50.2 %</p> <p>Group 4 50.2 %</p>
34427	VBU-D-ITL (6 Group-DT6)	Control 6 groups of DT6 luminaires	Dimmer:G0,G1,G2,G3,G4,G5 Group0:G0 Group1:G1 Group2:G2 Group3:G3 Group4:G4 Group5:G5	 <p>Dimmer 100.0 %</p> <p>Group 0 50.2 %</p> <p>Group 1 50.2 %</p> <p>Group 2 50.2 %</p> <p>Group 3 50.2 %</p> <p>Group 4 50.2 %</p> <p>Group 5 50.2 %</p>

34428	VBU-D-ITL (7 Group-DT6)	Control 7 groups of DT6 luminaires	<p>Dimmer:G0,G1,G2,G3,G4,G5,G6            Group0:G0            Group1:G1            Group2:G2            Group3:G3            Group4:G4            Group5:G5            Group6:G6</p>	
33626	VBU-D-ITL (8 Group-DT6)	Control 8 groups of DT6 luminaires	<p>Dimmer:G0,G1,G2,G3,G4,G5,G6, G7            Group0:G0            Group1:G1            Group2:G2            Group3:G3            Group4:G4            Group5:G5            Group6:G6            Group7:G7</p>	
33627	VBU-D-ITL (1 Group-DT8)	Control a group of DT8 luminaires	<p>Dimmer:            for adjusting brightness of all luminaires in the group            Colour temperature:            for adjusting temperature of all luminaires in the group</p>	



## Wiring diagram and Installation

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 fixture profile built in device is " VBU-D-ITL (8 ID-DT6)".
- \_ If need to change the fixture profile, make sure it is in unpaired status.
- \_ Select "Nearby devices", tap "VBU-D-ITL (8 ID-DT6)" 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.

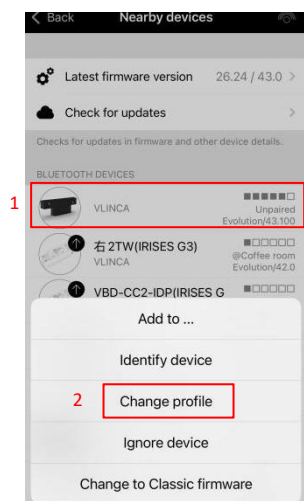


Figure 1

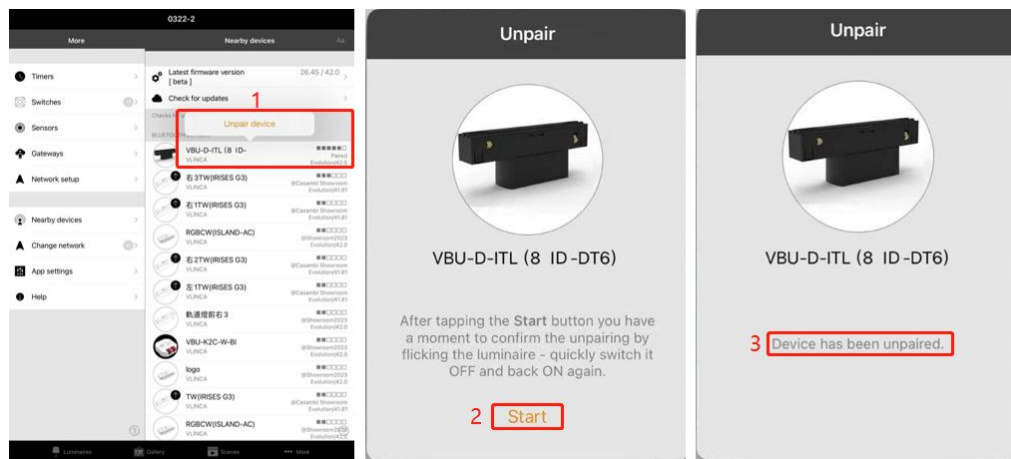


Figure 2

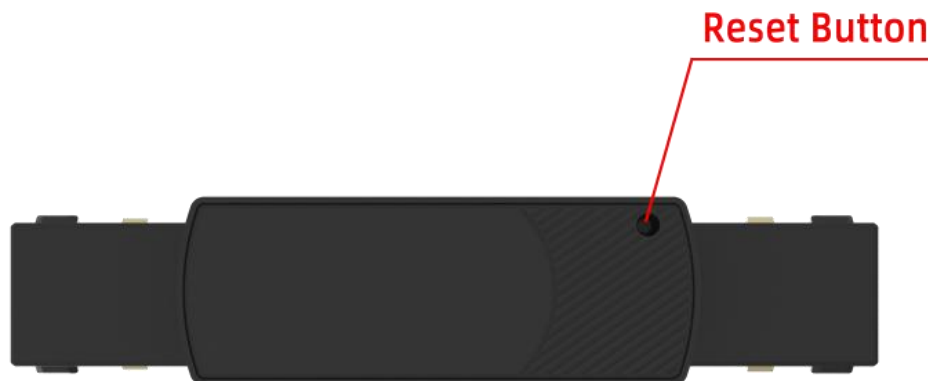
# Reset Button

## 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”.



**Figure 3**






**Figure 4**

## Scan DALI devices

- \_ After paired the controller into network, it is visible in "Luminaires" tab.
- \_ Double tap "VBU-D-ITL" 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 4 groups DT6", then only the group address 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




< Back    VBU-D-ITL (4 Group-	
Unit Address	86d25f6c9709
Unit name	VBU-D-ITL (4 Group-
Fixture ID	34425
Fixture mode	DALI/VirtualDim,Elements
Model	VBU-D-ITL (4 Group-DT6)
Vendor	VLINCA
Network ID	336c7fc09c2d
Unit ID	2
Firmware	Evolution/42.0
RSSI	-65 dBm
Unit condition code	0x80
Supports BT Long Range	Yes
DALI Configuration	>
Scan DALI devices	OK >
DALI:  A0;  G0;  DT6	0c >
DALI: A1; G1; DT6	0c >
DALI: A2; G2; DT6:8	02 >
DALI: A3; G3; DT6	0c >
DALI: A4; G0; DT6	0c >

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-D-ITL fully complies with Directive 2014/53/EU.

# Revision record

Version	Remark	Revision date
V1.0	Newly formulate	July 27, 2024