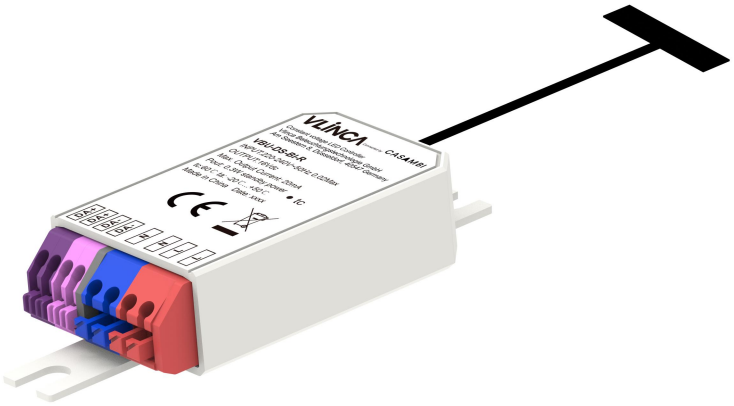


VBU-DS-BI-R

Version V1.1

VBU-DS-BI-R

VLiNCA connect by CASAMBI

Product Introduction

The VBU-DS-BI-R is a built-in DALI controller designed for the Casambi long-range wireless network. It supports various fixture profile configurations and can control up to 8 DALI devices individually or in groups. Additionally, it integrates a DALI bus power supply and features a power loop-through function, providing L/N power input to other devices.

Technical Data

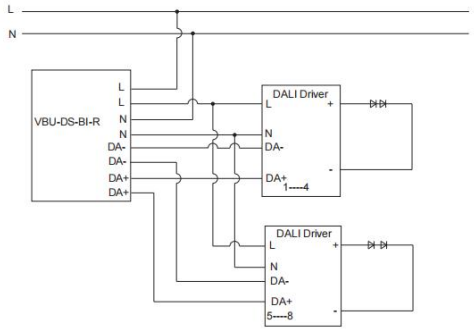
Nominal input voltage		220 … 240 Vac
Input voltage range		198 … 264 Vac
Input frequency		50 Hz
Input current		≤ 20 mA
Power consumption standby		< 0,3W
Output control interface		DALI
Max. number of drivers connected		8
Firmware update		OTA (Over The Air)
Protections		Short circuit protection Overload protection No-load protection
Operating temperature range		-20ºC … +50ºC
Max. casing temperature tc		60°C
Storage Temperature		-20ºC … +70ºC
voltage accuracy		±10%
DALI	Bus voltage	14-16 VDC
	Guaranteed current	20mA
	Maximum current	70mA
RF	Communication interface	BLE
	Communication protocol	Casambi
	Operating frequencies	2402–2480 MHz
	Max. transmission power	+8 dBm
Wiring	Solid size	0,25 … 0,75 mm2
	Wire strip length	7...9mm
IP		IP20
Dimensions		55*30*15 mm
Certifications		CE
Material /Color		PC/White,Black
Antenna		Built-in / External, supports customization

VBU-DS-BI-R

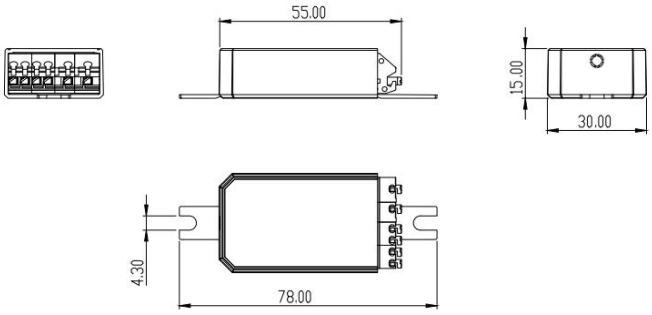
VLiNCA connect by CASAMBI

Wiring Diagram

Wired it according to the following wiring diagram.



Dimensions



Change Fixture Profiles

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

_ The default profile built in device is “VBU-DS-BI-R(4ID-DT6) (Linear)”.

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

_ Select “Nearby devices”, tap “VBU-DS-BI-R(4ID-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

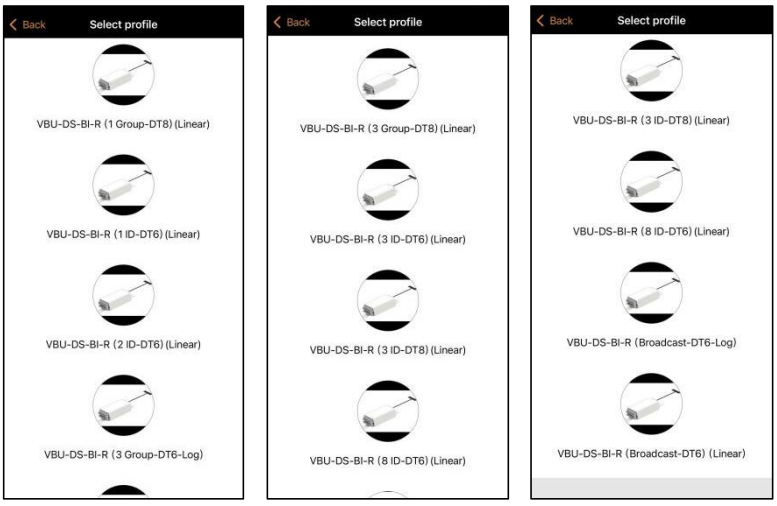
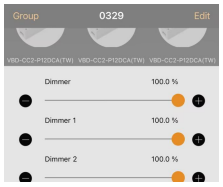
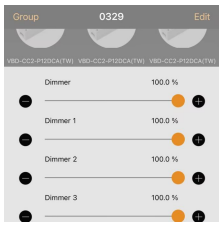
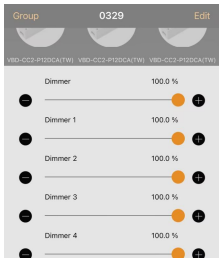
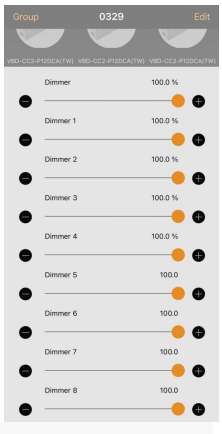


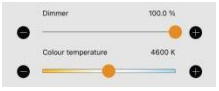
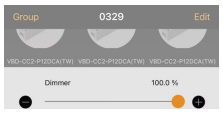
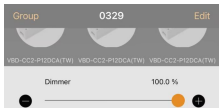
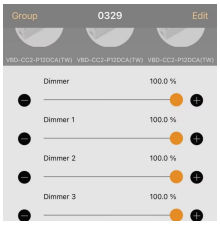
Figure 2

VBU-DS-BI-R

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Fixture Profiles

Profile#	Profile name in app	Description	Manual App Control	
50330	VBU-DS-BI-R (1ID-DT6) (Linear)	DALI DT6 1xdimmer	Dimmer: A0	
50331	VBU-DS-BI-R (2ID-DT6) (Linear)	DALI DT6 2 x dimmers	Dimmer: A0,A1 Dimmer1: A0 Dimmer2: A1	
50332	VBU-DS-BI-R (3ID-DT6) (Linear)	DALI DT6 3 x dimmers	Dimmer: A0,A1,A2 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2	
48519	VBU-DS-BI-R (4ID-DT6) (Linear)	DALI DT6 4 x dimmers	Dimmer: A0,A1,A2,A3 Dimmer1:A0 Dimmer2:A1 Dimmer3:A2 Dimmer4:A3	
50329	VBU-DS-BI-R (8ID-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	

50333	VBU-DS-BI-R (1Group-DT8) (Linear)	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.	
50335	VBU-DS-BI-R (3ID-DT8) (Linear)	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.	
50334	VBU-DS-BI-R (3 Group-DT8) (Linear)	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-BI-R conroller.	
50336	VBU-DS-BI-R (Broadcast-DT6) (Linear)	Control all DALI drivers on the bus without short- address assignment. The Dimming curve is linear.	The Dimmer Controls all DALI drivers on the bus	
50337	VBU-DS-BI-R (Broadcast-DT6-Log)	Control all DALI drivers on the bus without short- address assignment. The Dimming curve is logarithmic.	The Dimmer Controls all DALI drivers on the bus	
50338	VBU-DS-BI-R (3 Group-DT6-Log)	Control 3 groups of DT6 luminaires. The Dimming curve is logarithmic.	The first dimmer:G0,G1,G2 Dimmer1:G0 Dimmer2:G1 Dimmer3:G2	

Unpair Device From Other Network

To unpair the device from other network, follow the steps in Figure 3, then power the device off and on, and it will implement "Switch OFF and back ON again".

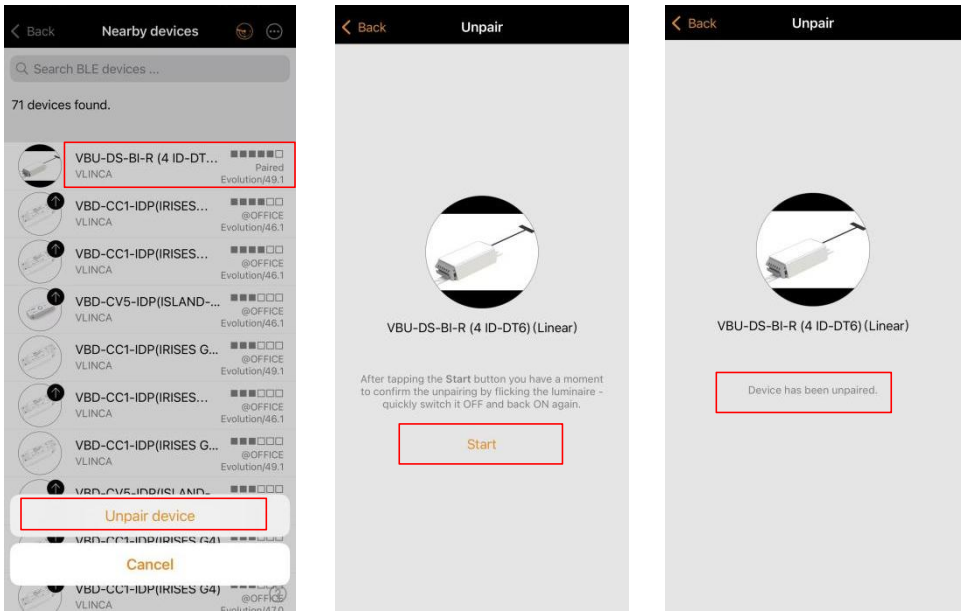


Figure 3

Scan DALI Devices

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

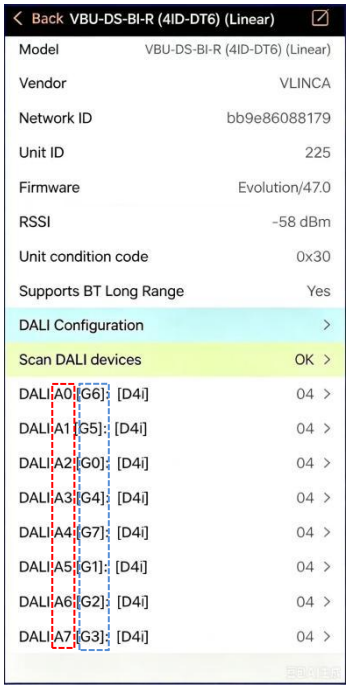
_ Double tap “VBU-DS-BI-R" icon, tap “Details".

_ 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.



Make sure no DALI addresses conflict in the bus.

Do not assign a DALI driver to multiple groups.

: short address : group address

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-BI-R fully complies with Directive 2014/53/EU.

Revision Record

Version	Remark	Revision date
V1.0	Newly formulate	Sep. 3th, 2026
V1.1	Add a loop function to the device.	Oct. 23th, 2026