# VBU-D-NODES

## Version V1.0

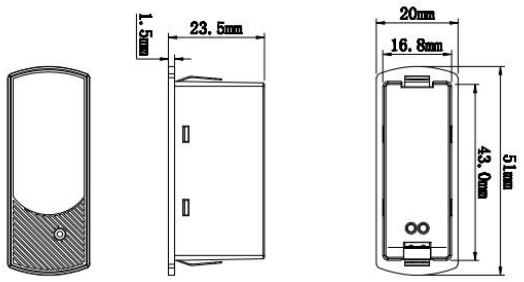
# VBU-D-NODES

VLINCA connect by CASAMBI

## Product introduction

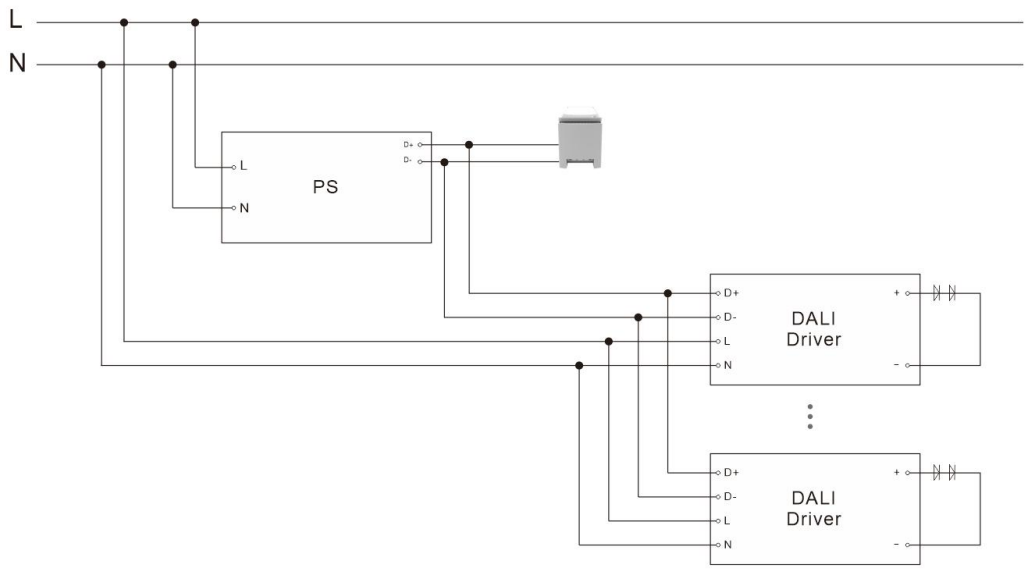
VBU-D-NODES is a Bluetooth controllable, Casambi enabled DALI controller which can control up to 64 DALI drivers by groups or 8 DALI drivers independently. VBU-D-NODES is powered directly from a DALI bus. This controller can be mounted directly to luminaries and fits a cut-out of 44*17 mm.

## Technical data

| | | |
|---|---|---|
| Input Voltage | 12-22.5 Vdc | |
| Output Voltage | 12-22.5 Vdc | |
| Radio frequency | 2.4GHz | |
| Maximum output power, PRF | +7 dBm | |
| Communication Distance | 50m | |
| Reset | Push button (small hole) | |
| Ambient temperature range ta | -20...+50 ℃ | |
| Maximum case temperature tc | 65℃ | |
| Storage temperature range | -20...+70 ℃ | |
| Environmental rating | Indoor | |
| IP rating | IP20 | |
| DALI control | Individual addressing (DT6) | 8 addresses |
| | Group addressing (DT6) | 8 groups (max 64 dali drivers) |
| | Group addressing (DT8) | 1 groups (max 64 dali drivers) |
| | Dimming interface | DALI2 |
| | control output | DALI2 |
| | Memory function | Yes |
| Physical information | Dimension | 20*47*21.5mm   |
| | Material/Color | White/black |

# Wiring diagram

Wired it according to the following wiring diagram.




# Warnings

Please wired it correctly,otherwise the product may be damaged or can not work normally.

The product does not contain replaceable components. Do not disassemble.

# Change fixture profiles

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

_ The default profile built in device is “VBU-D-NODES (8 ID-DT6)”.

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

_ Select “Nearby devices”, tap “VBU-D-NODES (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.

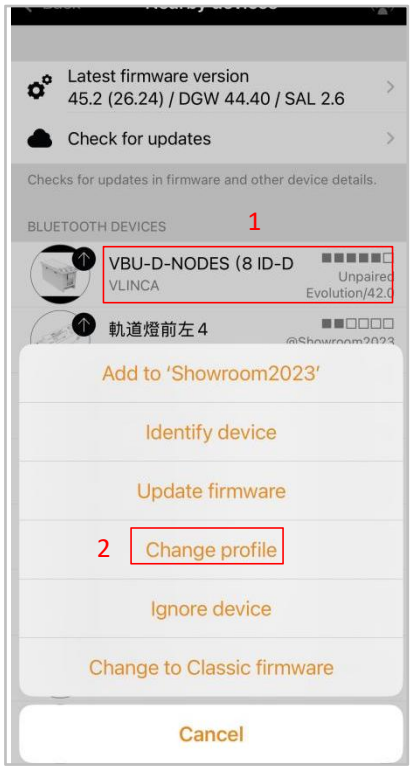



Figure 1

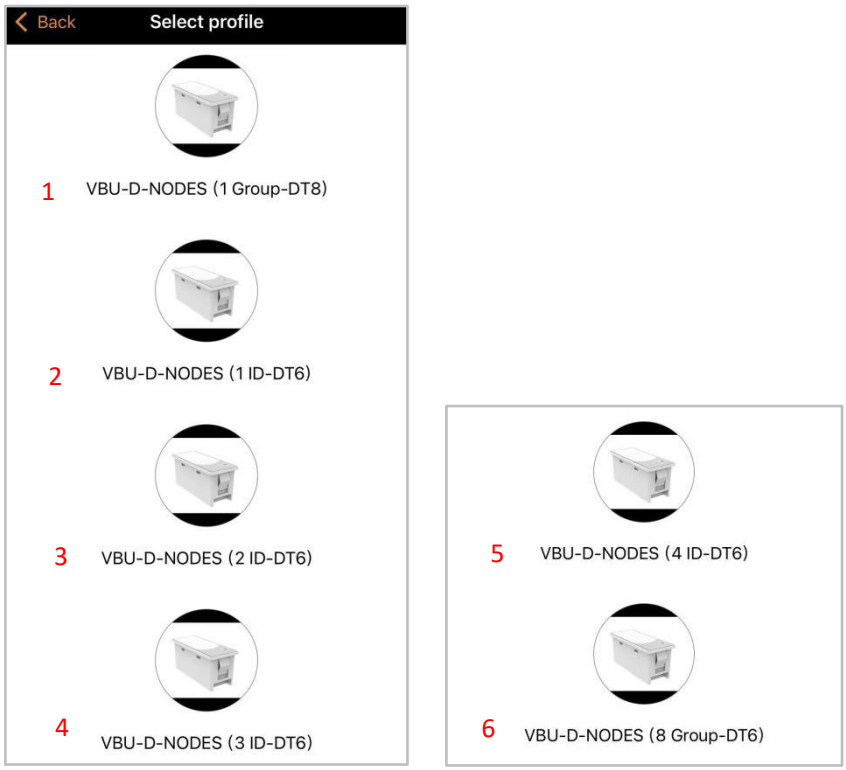



Figure 2

## Fixture profiles

| Profile# | Profile name in app | Description | Manual App Control | |
|---|---|---|---|---|
| 39712 | VBU-D-NODES (1 ID-DT6) | DALI DT6 1xdimmer | Dimmer: A0 |   |
| 39713 | VBU-D-NODES (2 ID-DT6) | DALI DT6 2 x dimmers | Dimmer: A0,A1<br>Dimmer1: A0<br>Dimmer2: A1 |   |

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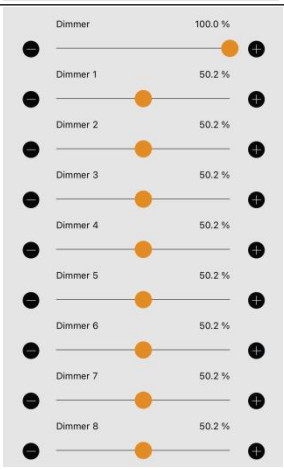
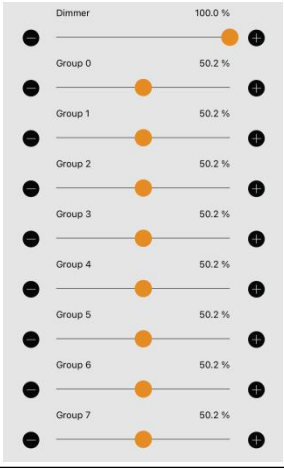
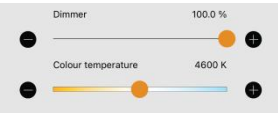
| | | | | |
|---|---|---|---|---|
| 39714 | VBU-D-NODES (3 ID-DT6) | DALI DT6 3 x dimmers | Dimmer: A0,A1,A2<br>Dimmer1:A0<br>Dimmer2:A1<br>Dimmer3:A2 |  |
| 39721 | VBU-D-NODES (4 ID-DT6) | DALI DT6 4 x dimmers | Dimmer: A0,A1,A2,A3<br>Dimmer1:A0<br>Dimmer2:A1<br>Dimmer3:A2<br>Dimmer4:A3 |  |
| 39715 | VBU-D-NODES (8 ID-DT6) | DALI DT6 8 x dimmers | Dimmer:A0,A1,A2,A3,A4,A5,A6,A7<br>Dimmer1:A0<br>Dimmer2:A1<br>Dimmer3:A2<br>Dimmer4:A3<br>Dimmer5:A4<br>Dimmer6:A5<br>Dimmer7:A6<br>Dimmer8:A7 |  |
| 39716 | VBU-D-NODES (8 Group-DT6) | Control 8 groups of DT6 luminaires | Dimmer:G0,G1,G2,G3,G4,G5,G6,G7<br>Group0:G0<br>Group1:G1<br>Group2:G2<br>Group3:G3<br>Group4:G4<br>Group5:G5<br>Group6:G6<br>Group7:G7 |  |
| 39718 | VBU-D-NODES (1 Group-DT8) | Control a group of DT8 luminaires | Dimmer:<br>for adjusting brightness of all luminaires in the group<br>Colour temperature:<br>for adjusting temperature of all luminaires in the group |  |

# 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”.

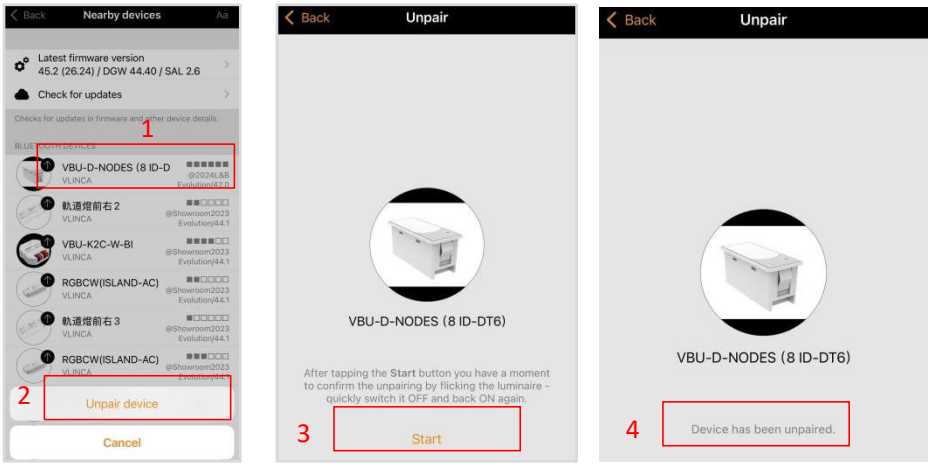



**Figure 3**

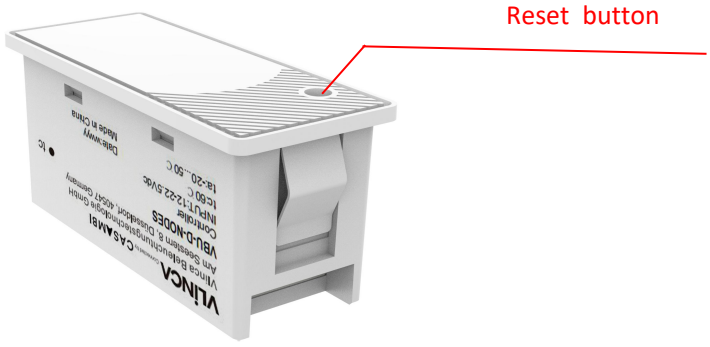



**Figure 4**

# Scan DALI devices

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

_ Double tap “VBU-D-NODES” 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 8 groups DT6”, then only the group address 0-7 could be controlled.
_ If the fixture is “control a group of DT8”, then only DT8 device could be controlled, in broadcast mode.
_ Tapping any one of driver under the scan list allow you to view its detailed information(as in figure 6).

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

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

: short address : group address : device type

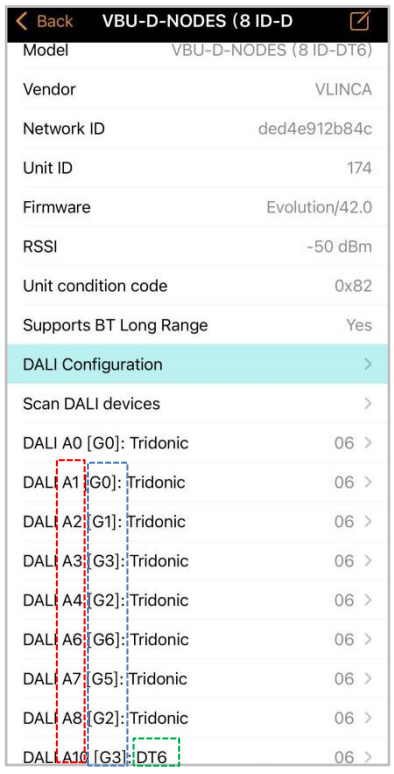



Figure 5

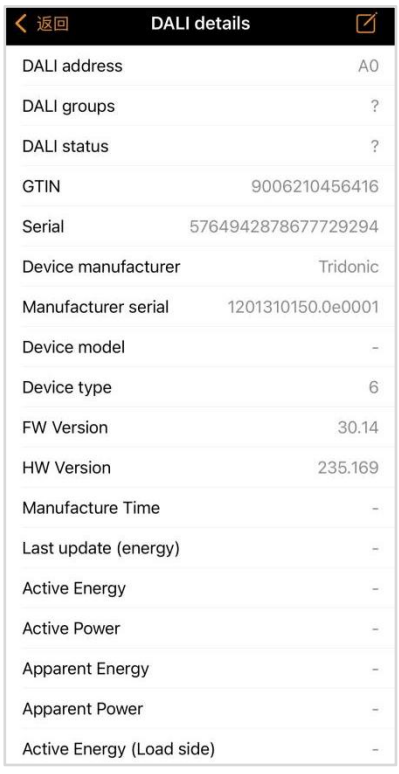



Figure 6

# 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-NODES fully complies with Directive 2014/53/EU.

# Revision record

| Version | Remark | Revision date |
|---|---|---|
| V1.0 | Newly formulate | Feb 12, 2025 |
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