

hortiOne

LED GROW LIGHTS



Knob & Bluetooth



DIMMER

Knob + Bluetooth

(DCG-BLE)

hortiONE Knob+Bluetooth dimmer is a 0-10V dimmer for horticultural applications. Designed to control up to three LED driver (single channel) with a plug and play connection for hortiONE 420 and 600 LED grow lights. The dimmer is also compatible with all 0-10V dimmable drivers. a USB power supply can be used for an LED driver without a 12V auxiliary port. The dimmer supports knob-dimming in 6 different steps, including power off. Wireless dimming via bluetooth, is directly possible with the free tuya app. Bluetooth mesh is supported by a 3rd party gateway. With the use of the gateway, the dimmer is connected via the tuya cloud and can be controlled via the internet. Smart home capabilities like interconnection with sensors and services like Google smart home or Amazon Alexa are possible as well.



Connection for 3 LED drivers

Plug & Play for hortiONE 420 / 600
compatible with 0-10V dimmable driver



Bluetooth antenna

App controll



USB-Type A

Optional: power supply
for driver
without 12V AUX



Knob

Modes:

Off - 20% - 40% - 60% - 80% - 100%

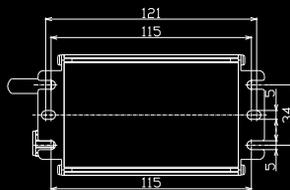
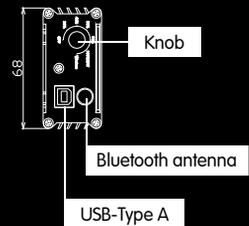
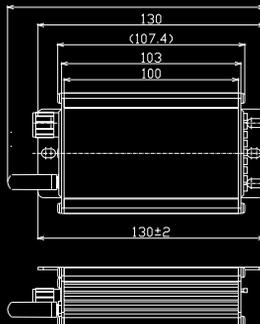
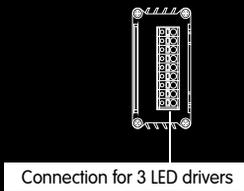
Wireless (Bluetooth)

TECHNICAL DATA

Input	LED driver 12V AUX or powered by USB +5V	
Output	0-10VDC	
Maximum dimming load	100 mA	
Channel	1	
Number of connections	Can connect up to 3 LED driver	3
Max ambient air temperature	Indoor use only	50 °C
Warranty	2 years	
Dimensions	130x68x34 mm	

Dimensions

01. Dimmer



02. Wire



01. Knob-dimming

When the knob is used for dimming, the bluetooth chip is deactivated and not powered!



Output power is x % of maximum

Modes

- OFF : Dimm off
- 20%
- 40%
- 60%
- 80%
- 100%
- Wireless: Bluetooth mode

02. Bluetooth direct

Power Off / Power On
Stepless dimming from 1-100%
Schedules: (daily light on / off)
Sunrise / sunset function

The connection is solely between the dimmer and the smartphone.
Both units must be inside the signal range.
Distance is depending on the environment



Download tuya smart app
(Android and Apple)

Scan QR-Code on the side or search for "Tuya smart" app



03. Bluetooth smart (requires Gateway!)

Control your grow light via Internet - Connect with external services (Alexa, Google,..)
Connect with external sensor



CO2 sensor

Light sensor

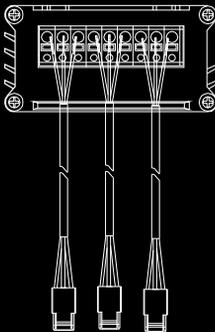
Humidity / Temperature sensor

You can monitor sensor values in the same app. These values can also be used to control your LED grow light. Samples: Increase light intensity when the CO2 value is above *** ppm (a defined level)

Note: The required gateway and sensors are 3rd party components and not provided by hortiONE

Connection

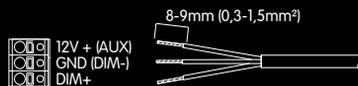
hortiONE 420 / 600



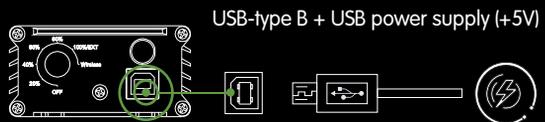
Connect to your hortiONE 420/600 LED GROW LIGHT (plug n play)

3rd Party LED driver (including 12V AUX port)

0/1-10V dimmable LED driver only!



3rd Party LED driver (USB power supply)



01. Connect the dimmer to your LED driver

The LED driver must be connected to electricity (AC outlet).
hortiONE 420 and hortiONE 600 are plug n play. If you use a hortiONE V1/ V2 or a 3rd party LED driver without 12V AUX connection, a separate USB power supply (Type B) must be used. If more than one LED-driver is connected, only one of them must have a 12V AUX port as power source.

02. Set the knob to wireless

The connected LED grow light will flash one time

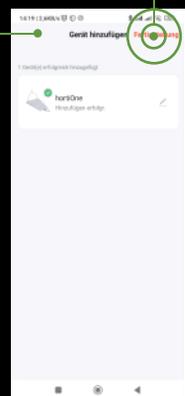
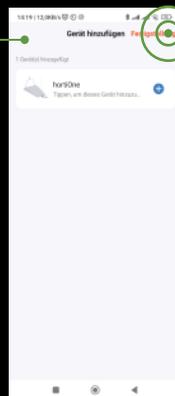
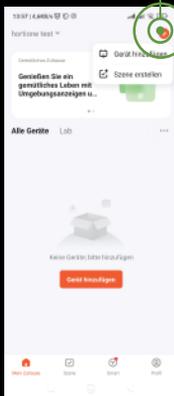
03. Open tuya app and add the dimmer

Scan the QR-Code on the first page or search for "Tuya Smart" in your app store.
Start tuya app. Bluetooth must be activated!

Press the (+) and add device
or use the orange button:
Add device

The Dimmer should be found automatically
1. Click Add device
2. Click on the (+)

Click on "Finalize"

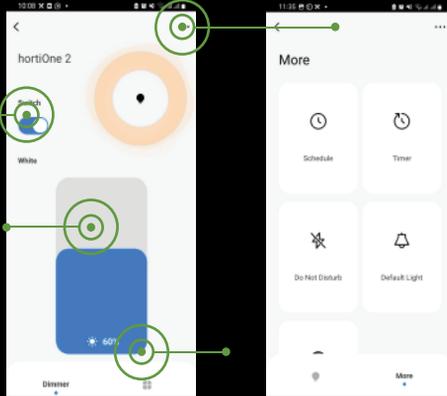


SETUP & USAGE

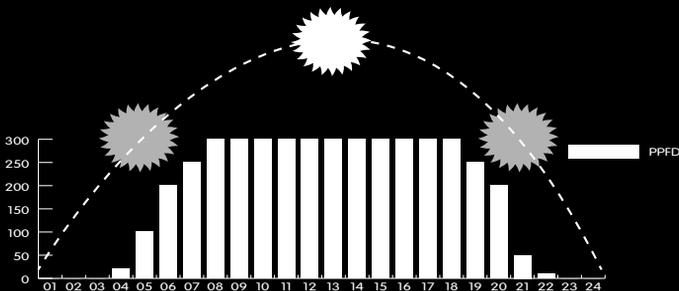
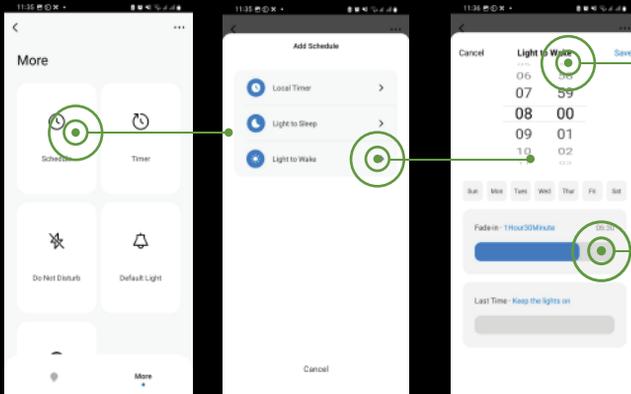
Using the app

Power On
Power Off

Stepless Diming 1 - 100%



Setting up a timer - Sunrise / Sunset



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Wireless Dimmer
MODEL DCG-BLE

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CE RoHS

Maximum dimming load: 1000mA
Powering by USB, 4-5V or 12V
Powered by USB, 4-5V or 12V