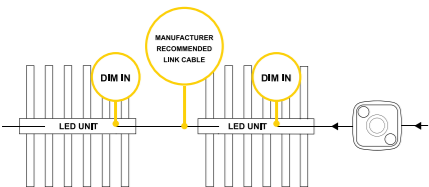


Accessories

Daisy-chaining

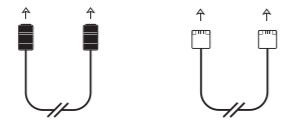
A single Telos Growcast can control multiple connected lights by daisy-chaining the output signal. This means that the PPF setting and schedule will be synced across all the lights which are wired together.

Install the Growcast into the dimming input port of the fixture as described on page 6. Then use the control linking cables recommended or included by the manufacturer to link from the dimming output port of the first fixture to the dimming input port of the second fixture and so on. Always refer to the original manufacturer's recommendations when daisy chaining fixtures together.

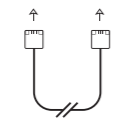


Daisy Chaining Cables

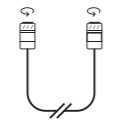
These cables allow the user to link multiple fixtures together for single channel dimming.



Push-lock M12 to push-lock M12 (2m)



RJ11 to RJ11 (2m)



Twist-lock M12 to twist-lock M12 (2m)

<https://teloslighting.co.uk/shop/push-m12-link>
<https://teloslighting.co.uk/shop/twist-m12-link>
<https://teloslighting.co.uk/shop/rj11-link>

Example setup: In order to link 5 lighting fixtures to a single Growcast, you will need 4 x linking cables..

Alternative Lighting Adapters

The included Growcast RJ11 adapter allows you to connect the Growcast to most major lighting brands. Some manufacturers use non standardised connectors for their dimming ports. We've created a range of non-standard adaptors (not included) that will allow you to connect a Growcast to these specialised dimming ports.



Growcast to RJ11 [B] (30cm)

<https://teloslighting.co.uk/shop/growcast-adapters>



Growcast to M12 twist-lock (30cm)

<https://teloslighting.co.uk/shop/growcast-adapters>

Understanding the Touch Controller

The Telos Growcast has a touch sensor which is used to change the mode or active setting. The touch sensor is activated by pressing in the centre of the yellow halo on the Growcast.

Understanding the Status LED

Press the touch sensor to cycle through the pre-set light output settings. The status LED at the base of the cap will change colour depending on the current mode.

Status LED Colour	Meaning
Blue Flashing	Bluetooth ready to pair
Blue	Bluetooth mode (paired)
Green	Standby
Yellow	25% Output intensity
Orange	50% Output intensity
Deep orange	75% Output intensity
Red	100% Output intensity
Purple	Network lock mode

Enabling Bluetooth Mode

Enable Bluetooth Mode before attempting to add your lights to the Telos Mesh app.

Step 1



Cycle through to Bluetooth mode by pressing the touch sensor repeatedly until the status LED turns blue. Wait at least 5 seconds before attempting to connect.

Step 2



The status LED will flash blue and the light will start broadcasting the Bluetooth advertising signal.

Waking the Growcast from Sleep

Wake your Growcast from sleep. To prevent accidental changes, the Growcast will go to sleep after 15 seconds of inactivity.

Step 1



Push and hold the touch sensor for 3 seconds. The status LED will dim down and the touch sensor will reactivate.

Resetting the Growcast

The Growcast can be fully reset using the touch sensor on the driver. Resetting will erase any connection settings and saved schedules.

Step 1

First, wake the Growcast from sleep. Refer to previous page.

Step 2



Press and hold the touch sensor for 3 seconds. The status LED will flash red.

Step 3



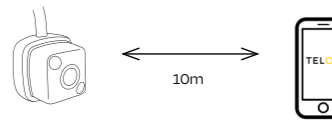
Release, then press and hold the touch sensor again for another 3 seconds. And release.

Complete

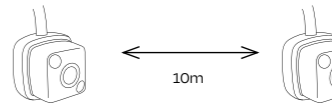


The entire light (lamp section) should flash brightly **3x**.

Wireless Connection Distances



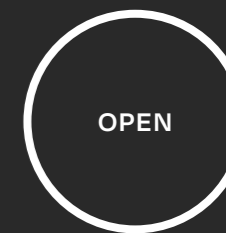
Recommended distance between Growcast to smart device.



Recommended distance between Growcast to Growcast.

When connecting and controlling the network with a smart device, we recommend that you are in the same room or within 10 meters of the Growcast to ensure the strongest connection.

TELOS
GROWCAST



User Manual

welcome

Thank you for purchasing a Telos Growcast. Telos products are designed in the UK by our expert team and are made using the latest electrical componentry and manufacturing technologies.

Our aim is to help growers to save energy and grow better plants with reliable, research driven lighting technologies.

Technical Information

- Compatible with many LED and HPS lighting fixtures from leading manufacturers
- Wirelessly set exact light output levels with Precise PPF™
- Control PPF values for each week of growth
- Program a 24hr on/off timing schedule for different grow cycles, replacing the need for contactors and timers
- Add an optional sunrise / sunset feature to schedules
- Daisy chain up to 50 lights to a single Growcast™ controller
- Securely connect and control multiple Growcast™ controllers together on the Telos Mesh smart phone app for Android and iOS

Connection interface	M12 Push-lock connector
User interface	Smart-phone app or manual control via touch sensor
Dimming range	10-100% & Dim to off
Dimming protocol	1-10v
Input power	USBC cable or 12v supply (From LED driver)
Wireless technology	Telos Mesh 5.3
Control app	Telos (Android) Telos Mesh (iOS)
App availability	Android and iOS
Ingress Protection	IP65 (when USBC not connected)
Dimensional data	32 x 32 x 22mm
Weight	27g
Cable length	300mm
Manufacturer's Warranty	2 years

Compatibility

Telos Growcast is compatible with many different grow lights from a wide range of manufacturers. Visit our website at

www.teloslighting.co.uk/growcast

for a full list of compatible fixtures.

Telos has tested the models listed on the compatibility list to ensure that they function correctly with the Growcast. Telos accepts no liability for damage to the Growcast, grow lights or property that arises from using the device with a light that is not listed on the compatibility list.

Accepted Ports



M12 Push-lock

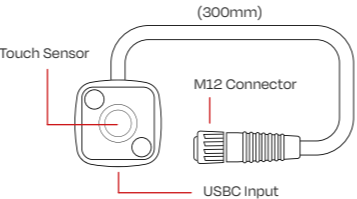


RJ11

An adapter is available for M12 thread-lock connections.

Product Details

1 x Growcast Controller:



2 x Cable Adapters:



USB-A to USB-C (2m)



Growcast to RJ11 adapter (30cm)

For the USBC cable, you will need a standard 5v USB power plug.

1 x Steel Mounting Surface:



The 3M material is pre-mounted to the back of the stainless steel plate. Take care to only remove the red plastic release tape and not the black foam adhesive.

Included in the box:

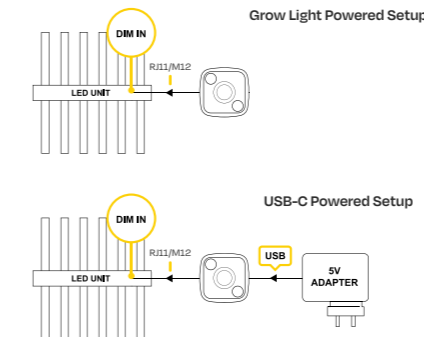
- 1 x Growcast controller
- 1 x 2m USB-C cable
- 1 x RJ11 Adapter [Type A]
- 1 x Steel mounting plate
- 1 x Instruction manual
- 1 x Telos Mesh Manual

Installation

Make sure your grow light is powered off before plugging in the Growcast.

Connect your Growcast into the "Dim In" port on your chosen grow light.

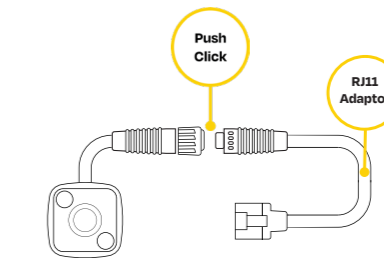
Most grow lights can self power the Growcast via a 12v supply from the "dim-in" port. Some grow lights will require an external power source via USB-C (cable provided).



RJ11 Adaptor

Different grow light manufacturers use different "dim-in" ports for their lighting designs. Traditionally most grow lights have been designed with an RJ11 port however many newer grow light designs use a waterproof M12 push lock connector.

We designed the Growcast with the future in mind and made the M12 connector the native option, however, we have included an RJ11 adaptor with every product so either type can be used.



Mounting

The Telos Growcast can be mounted to the side of the grow light using the included self-adhesive pad or to a suitable alternative surface using the internal magnet.

Magnet

The Growcast has a strong permanent magnet integrated into the product casing to allow it to be mounted onto other magnetic materials such as the included stainless steel mounting plate.

Mounting plate

Use the adhesive pad to attach the mounting plate to a your desired location. The growcast will connect magnetically to the backing plate and lock into position with location pins.

