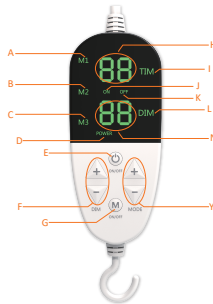




PHOTOBIO iLOC Dimmer



Display and Key Functions

Mark	Name	Description
A	Timer Mode M1	10 hours ON / 14 hours OFF
B	Timer Mode M2	12 hours ON / 12 hours OFF
C	Timer Mode M3	14 hours ON / 10 hours OFF
D	POWER	Dimmer power indicator
L	DIM	Manual dimming indicator
H	Countdown Time	Remaining time in hours
I	TIM	Timer function indicator
J	ON	Timer mode ON
K	OFF	Timer mode OFF
N	Dimming Output Value	Displayed as 01-10
E	ON/OFF	Master switch
F	DIM + / -	Brightness adjustment keys
Y	MODE + / -	Timer preset selection
G	M	Timer mode key

Product Overview

The PHOTOBIO iLOC Dimmer is a low-voltage 0-10V dimming Dimmer with a built-in daily timer function.

It is intended to control light intensity and light cycles for compatible fixtures, including the IU120 under-canopy light, Photobio MX2 680 and the PHANTOM Cultivar GL250.

The Dimmer provides a 0-10V dimming output and is powered by the 12V DC supply available from the fixture dimming/control port when connected to a compatible light.

- Manual mode: turn the light on or off and adjust brightness from 10% to 100%.
- Timer mode: run a repeating daily cycle with preset durations.
- Power-loss behavior: settings are cleared when DC power is disconnected.

Package Contents

iLOC Dimmer x1	RJ Adapter Cable x1

Technical Specifications

Item	0-10V dimming Dimmer with daily timer
Dimmer type	Powered by 12V DC from compatible fixture dimming/control port
Input voltage	12V
Output voltage	0-10V dimming control signal
Brightness setting range	01 to 10 (10% to 100%)
Timer presets	M1: 10 h ON / 14 h OFF; M2: 12 h ON / 12 h OFF; M3: 14 h ON / 10 h OFF
Memory after DC power loss	No memory; settings are cleared after power is disconnected
Package contents	iLOC Dimmer x1; RJ Adapter Cable x1
Compatible connection notes	IU120: direct connection to dimming/control port; GL250: use included RJ adapter cable to convert to RJ12 before connection; MX2 680: direct connection to dimming/control port;

Safety and Important Notes

- Use only with compatible fixtures and correct cabling.
- Keep cables uncoiled, dry, and protected from physical damage.
- Install and wire the lighting system according to local electrical codes.
- Use the system in a well-ventilated area. Related under-canopy fixture manuals specify ambient operation up to 40 C (104 F).
- This Dimmer is not the main power supply for the fixture. It provides a 0-10V control signal only.
- The lighting fixture must be connected with its normal AC input power. When connected to the IU120 or GL250 dimming/control port, the iLOC Dimmer can receive 12V DC power from the fixture to power on the Dimmer.

Operating Instructions

Start-up

- Connect the iLOC Dimmer to a compatible fixture dimming/control port. When connected to the IU120 or MX2 680 or GL250, the Dimmer will receive 12V DC power from the fixture dimming/control port.
- All characters and indicators light for about 1 second.

Manual Dimming Mode

- Press ON/OFF to enable dimming output. The display shows 01 and the Dimmer outputs 1V.
- Press DIM + or DIM - to adjust brightness. For example, 01 = 10%, 10 = 100%.
- In manual mode, the display shows the dimming value, DIM indicator, and POWER indicator.
- Press ON/OFF again to turn the light output off.

Timer Mode (Daily Repeating Cycle)

- From manual mode, press M to enter timer mode. The display shows ON, meaning the Dimmer is in the Light-ON sustain period.
- Use MODE + or MODE - to select M1, M2, or M3.
- The Dimmer begins counting down the ON period. During this time, the output remains at the dimming level active when timer mode was entered.
- When the ON countdown reaches zero, The output becomes 0V and the light turns off.
- The display then shows OFF and the remaining OFF time.
- After the OFF countdown is complete, the cycle repeats automatically every day.

Adjusting Brightness During Timer Mode

- During the Light-ON period, DIM + or DIM - changes the output level in real time.
- The adjusted brightness becomes the maintained ON-state brightness for the current day and subsequent repeating cycles.
- During the Light-OFF period, DIM keys are disabled and will not turn the light on.

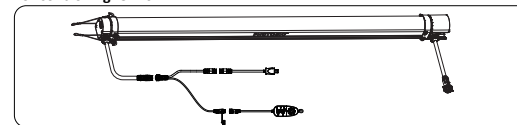
Restarting or Clearing Timer Mode

- Press M during the Light-ON period to clear the current timer and restart timer mode immediately.
- Press M during the Light-OFF period to clear the current timer and restart with the light turned on.
- Press ON/OFF while the Dimmer is powered to cancel timer mode and return to normal manual dimming mode. The display returns to 01.

Memory Behavior

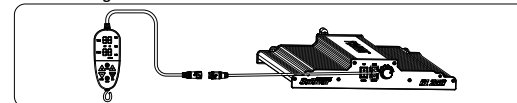
The Dimmer does not retain settings after DC power is removed. When power is restored, timer settings and dimming settings are cleared, and the Dimmer returns to its default powered state.

For controlling IU120



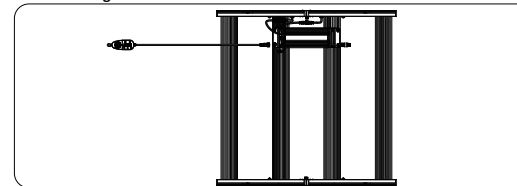
For IU120 under-canopy light: Connect the iLOC Dimmer directly to the IU120 dimming/control port or control lead as shown in the connection draft. The IU120 dimming port provides 12V DC output to power the iLOC Dimmer after connection.

For controlling GL250



For GL250: An RJ adapter cable is included in the iLOC Dimmer package. Use the adapter cable to convert the iLOC Dimmer connection to RJ12, then connect it to the GL250 dimming/control port. The GL250 dimming port provides 12V DC output to power the iLOC Dimmer after connection.

For controlling MX2 680



For MX2 680: Connect the iLOC Dimmer directly to the MX2 680 dimming port as shown in the connection draft. The MX2 680 dimming port provides 12V DC output to power the iLOC Dimmer after connection.