

Autopilot PX2 Advanced Lighting Controller

The **Autopilot PX2 Advanced Lighting Controller** (APDPX2) provides precision photoperiod control of up to 512 fixtures in two independently controlled zones, all from one centralized location. Designed to work with any controllable Phantom or Core HID fixtures, as well as PHOTOBIO LED fixtures, the PX2 can control 512 digital HID fixtures (256 per zone), or 100 analog LED fixtures (50 per zone). The PX2 offers the flexibility to operate both zones analog or digital, or one zone analog and the other digital. With this versatile, dual-zone configuration, growers can:

- Optimize spectral treatments by checker boarding lighting technologies within the same environment (e.g., HPS with CMH, LED with CMH)
- Save power by checker boarding identical fixtures while reducing output to one of the zones during the light cycle within the same environment
- Alternate rows and zones within the same environment
- Enhance uniformity by independent control over perimeter versus interior of the environment

Features

The PX2 provides independent control of the following features in each of its dual zones:

- Photoperiod timing to control light and dark cycles
- Photosynthetic photon flux control to precisely schedule the PPF being emitted from fixtures during the light cycle (wattage or percentage)
- Auto-dimming when temperature exceeds set points
- Emergency auto-shutdown of lights upon user-defined over-temperature events
- Configurable restrike delay times to eliminate lamp-damaging hot starts
- Sunrise/sunset simulation settings to provide a gradual ramp-up and down at both ends of your photoperiod
- Built-in battery backup
- Voltage: 100–240V 50/60Hz 0.3 Amps

Two dedicated temperature sensors, one for each zone

These sensors provide real-time data for automated temperature-based dimming, as well as a high temperature shutdown feature that protects your garden. The PX2 eliminates inrush current and replaces traditional lighting contactors, reducing infrastructure investment.

Updated locking signal and data cables

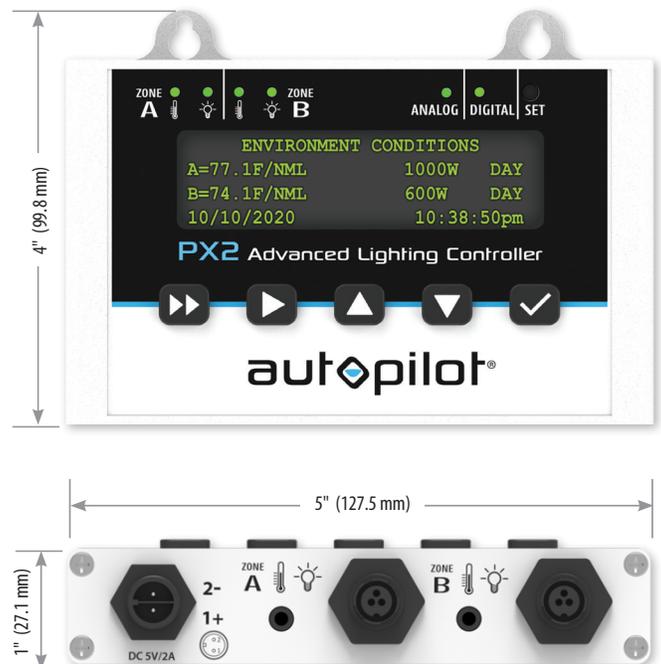
All cables are shielded from electromagnetic interference to ensure uncompromising signal reliability and communication.

Electrical Specifications

Qty of controllable zones	Max 2
HID Capacity	512 Ballasts (256 per zone)
LED Capacity	100 Drivers (50 per zone)
Controller Voltage	100–240V
Frequency	50/60Hz
Amps	0.3A
Power Supply	Adapter 100V–240VAC, 50/60 Hz, 5V DC (2000 mA)
Weight	0.9 kg/2 lbs.
Warranty	3 years



Dimensions



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Compatible fixtures

The PX2 is designed to work with any controllable Phantom or Core HID fixtures, as well as PHOTOBIO LED fixtures. The Cable Guide below illustrates one possible configuration. Additional cable guides are available at Hydrofarm.com.



ZONE A

Controls up to 50 LED fixtures.

ZONE B

Controls up to 256 HID fixtures.



PHOTO-LOC 0-10V Cable Kit CHC882000B (sold separately)



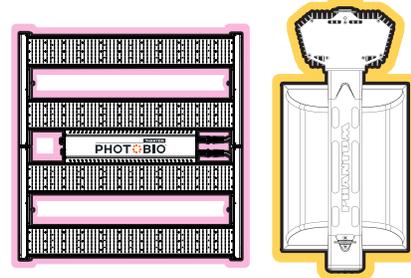
- For use with PHOTOBIO MX, M, T, and T Duo
- Includes 2 cables and 1 T Connector

- 1 Attach **BLACK** female end of the first cable to the **ORANGE** male end of the PTB link cable (included with PX2).
- 2 Attach **ORANGE** male end of the first cable to the **BLACK** female side of the T connector (trunk line).
- 3 Attach **BLACK** female end of the second cable to the **ORANGE** male bottom of the T connector (branch line).
- 4 Attach **ORANGE** male end of the second cable (branch line) to fixture.
- 5 Repeat steps 1-4 for each fixture.

Cable Guide

Checkerboard

LED + DE HPS



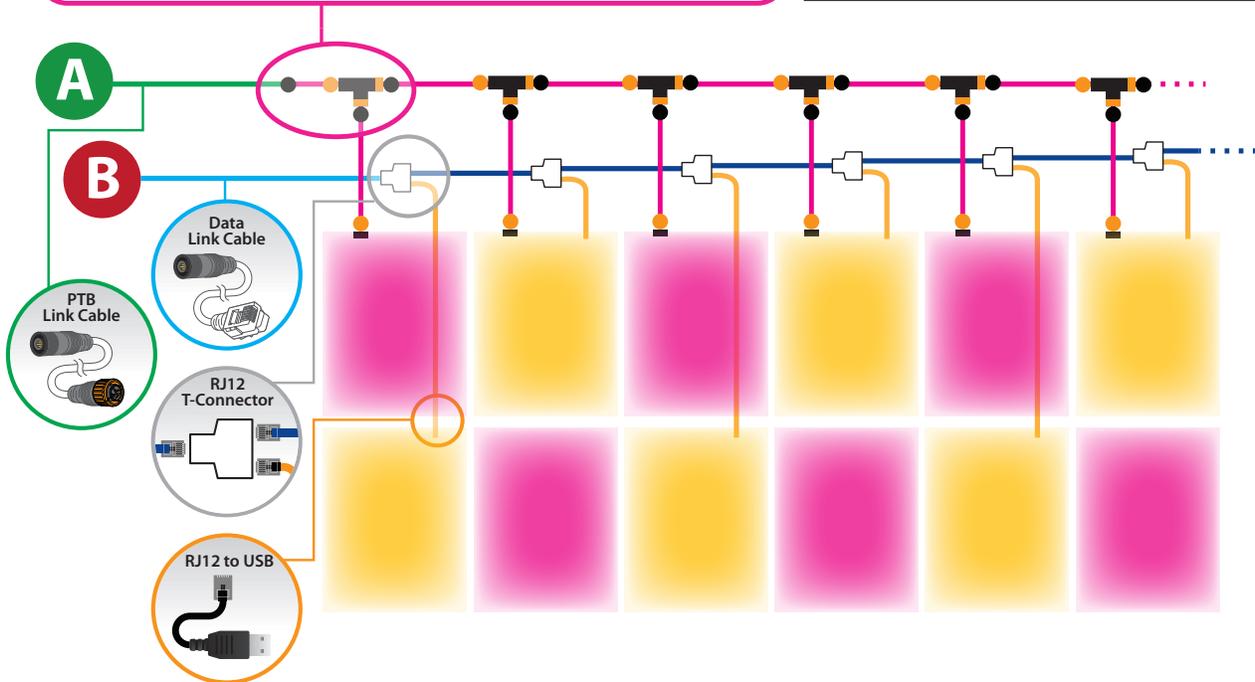
Fixtures are not shown to scale.

LEGEND: LED Fixtures

- PTB Link Cable
- PHOTO-LOC Cable CHC882000B
- Female end
- Male end
- T Connector

LEGEND: HPS, MH & CMH

- Data Link Cable
- RJ12 T-Connector
- RJ12 to RJ12
- RJ12 to USB



IMPORTANT: Do not attach data link cables to AC power cable. Always keep low voltage data cables and high voltage AC power harness as far as possible from each other for stable signal transmission. Avoid coiling data cables as well as AC harnesses in tight coils. Excess cable should be managed by creating long loops as opposed to tight coils.