

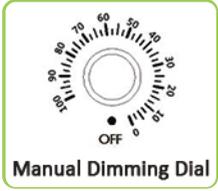
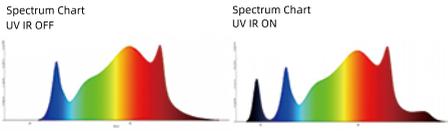
OZISTAR



NEW

OZISTAR QUANTUM BOARD
Specification, Warranty and Operation Manual

Advanced LED Grow Lights
Designed For Commercial Horticulture and Indoor Garden



Manual Dimming Dial

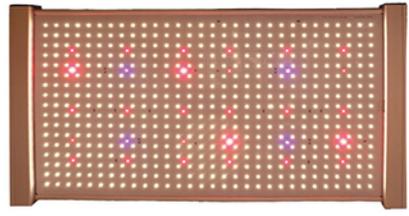
Using and Cautions:
 The lamp come with 2channels and UV channel suggest to use before flowering. (this suggestion not based on science, users should use the lamp according to actual growing needs.

- 1, The fixture come with manual dimming and accept 0-10VDC &PWM dimming .Built-in controller with Master/Slave Mode.
2. Please use the factory supply dimming connection wires for daisy chain dimming control the fixtures.
3. Please be careful when use manual dimming fuction ,the manual dimming dial be settet as reverse direction (as shown on the left) to generally accept 3 dimming functions at the same time.
- 4,Do not control the fixtures with the 3 dimming function at the same time. >Please turn the manual knob to the 100% direction on the dial until it been shutted off before using the 0-10V /PWM dimming function. >Please do not use manual knob to control the fixtures when the fixtures under 0-10VDC or PWM control.
5. For PWM remote dimmingcontrol,please check the remote control instruction book.

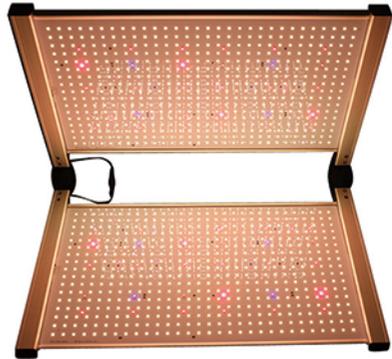


Remote Controller

Quantum-240



Quantum-480



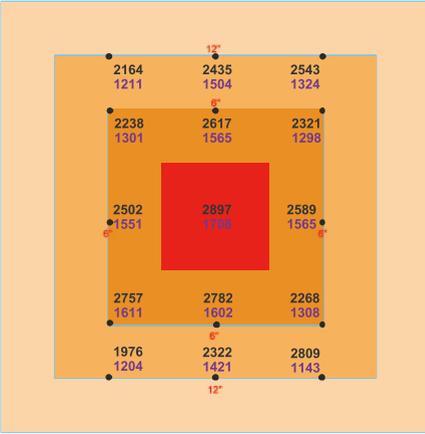
PRODUCT SPECIFICATIONS		
HIGH EFF. Q-SERIES	Quantum-240	Quantum-480
Typical Operating Voltage	100-277Vac	100-277Vac
LED Type	Samsung/Osram/SEOUL	Samsung/Osram/SEOUL
LED Qty.	Channel 1: 510pcs Samsung 18pcs EPILED 660nm Channel 2: 4pcs Osram 660nm 4pcs Seoul 395nm 4pcs Osram 730nm	Channel 1: 1020pcs Samsung 36pcs EPILED 660nm Channel 2: 8pcs Osram 660nm 8pcs Seoul 395nm 8pcs Osram 730nm
Typical Power Consumption	240Watts	480Watts
Operating Frequency	50/60Hz	50/60Hz
Power Factor	>0.98	>0.98
Operating Temperature	-20-40°C	-20-40°C
PPFD@6" (μmol/m2/s1)	2868	2925
PPFD@ 12" (μmol/m2/s1)	1607	1714
PPF (μmol/s1)	614	1229
Photon Efficacy (μmol/j)	2.56	2.56
Heat Output	792 BTU/hr	1584 BTU/hr
Dimensions(L*W*H)	23.5"x12.6"x1.26"	23.7"x29.3"x1.26"
Net Weight (Driver Include)	3.95KGS	7.75KGS

*Specifications based on performance at 120Vac with tested sample.Subject to change without notice.tolerance at ±5%
 * Optional 347vac~480Vac

QUANTUM PPFD CHART

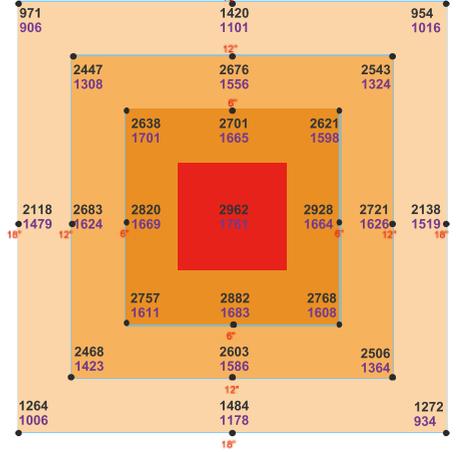
15cm/6"
30cm/12"

Quantum-240

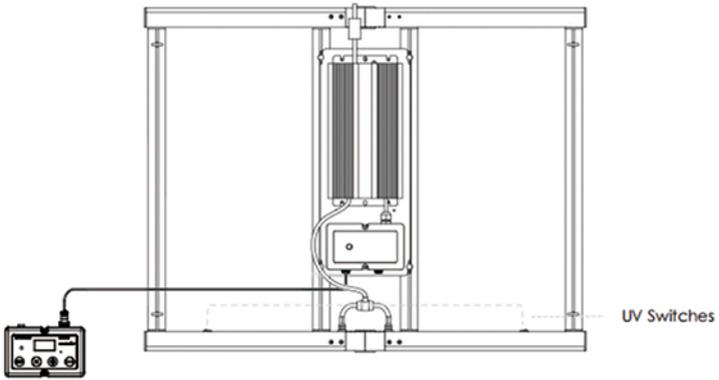


15cm/6"
30cm/12"

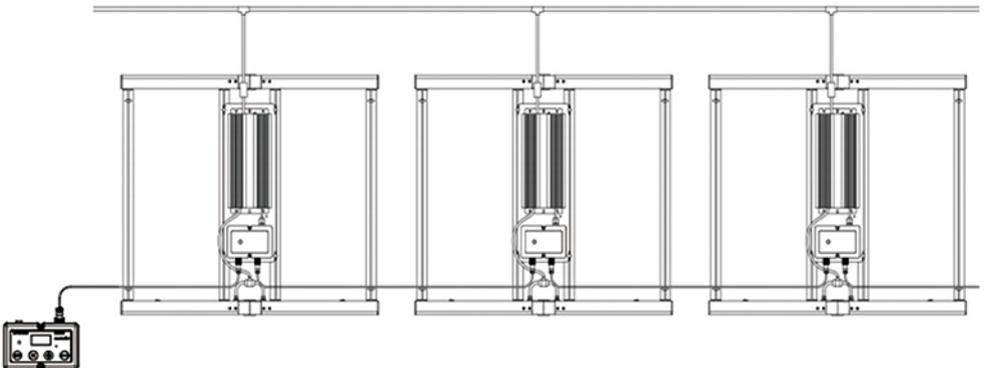
Quantum-480



Single Panel Dimming Timing Control



Multiple Panels Daisy Chain Dimming Timing Control



Preface

The fixture should be installed by qualified personal and adhere to all local rules, regulations and codes.

Warnings

The fixture is not user serviceable and contains no replaceable parts. The enclosure is not designed to be accessible and must not be removed. The fixture must be returned to the manufacturer for any repairs.

Environmental

The fixture is to be installed in damp or dry environments only. Do not install in areas where direct water can come in contact with the fixture. The maximum ambient temperature of the installed environment must not exceed 45°C. The installed environment should be mechanically ventilated or cooled by other means.

Mounting

Use the supplied hanging hardware to hang the light from a suitable support as follows:

1. Attach one end of the hook to the fixture mounting point.
2. Repeat for the other side of the fixture. See illustrations below.
3. Adjust the length of the hanging cord to set the desired fixture height and angle.

Once you have properly installed your G2 MARS Series Bar Light, you can now plug in your fixture. Alignment of internal notches will ensure proper connection of cord ends. Once ends are fully seated, secure with threaded water tight sleeve.

Cooling

Unlike other forms of lighting, LEDs dissipate all of the produced heat into the light fixture. The light fixture is required to dissipate this heat into the air as efficiently as possible. To achieve optimal performance and longest lifespan, the X Series should be mounted in the path of direct air flow in the growing area. The fixture can also operate in a no air flow environment however the over-temperature system will automatically and gradually reduce the power in order to preserve the lifespan of the components.



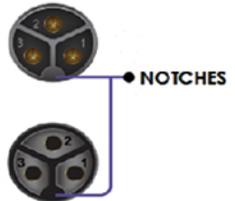
CAUTION

HIGH INTENSITY LED LIGHT

- * DO NOT LOOK DIRECTLY AT THE LIGHT WHILE ON
- * WEAR PROPER EYE PROTECTION WHEN LIGHT IS OPERATIONAL
- * KEEP OBJECTS FROM COMING INTO CONTACT WITH THE SURFACE OF THE LIGHT
- * THE LAMP CONTAINS NO UV AND CAN NOT BE USED IN ANY UV ENVIRONMENT.
- * WARNING – POSSIBLE RISK OF INJURY TO EYES AND SKIN

Hazardous optical radiation may be emitted from the light source. Do not stare at operating lamp. May be harmful to the eyes.

- * OPERATION OF THE LIGHT: DO NOT USE THE LIGHT UNDER ANY UV ENVIRONMENT/SUNLIGHT OR GLASS GREENHOUSE.



Connecting Power to the Unit

Use the supplied cord and connect the cord to an electrical outlet of appropriate type and rating. Ensure that the cord:

1. Are not concealed or extended through a wall, floor, ceiling, or other parts of the building structure.
2. Are not located above a suspended ceiling or dropped ceiling.
3. Are not permanently affixed to the building structure.
4. Are routed so that they are not subject to strain and are protected from physical damage.
5. Are visible over their entire length.

6. Are used within their rated ampacity as determined for the maximum temperature of the installed environment specified in the instructions.
7. The power supply can be connected in three ways. The first type: connected by American standard plug; The second type: connected by plug; The third type: the drive input line is directly connected to the power line (The connection of the power cord shall be made in the junction box, which provides the suitable strain relief device for strain elimination function of the power cord. The connection of the power cord shall be L to L, N to N, and G to G)

WARRANTY INFORMATION

1. Warranty: 1 Year – Full Replacement Direct

2. What Is Covered

Our products are warranted against defects in materials and/or workmanship for a period of three (3) years from the original date of purchase. During the warranty period, we will replace any covered, defective product. Within the first 30 days, we will incur all costs associated with the replacement, and return of the defective product. After 30 days, the customer will assume responsibility of shipping the defective product back to us for the remainder of the warranty period. We will, in turn, assume responsibility for up to \$20.00 per light of the shipping fees associated with returning the replaced product back to the customer. Return shipping fees in excess of \$20.00 will be the responsibility of the customer.

3. What Is NOT Covered

This warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by our company to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product.

4. How to Obtain Warranty Service

In order to enforce the rights under this warranty, the purchaser must notify local distributors of a warranty claim by contacting a local representative. The local distributor representative will either attempt to assist in troubleshooting, request photos showing defect, or issue a Return Authorization Number and provide more detailed return instructions. Upon receipt and review of the defective product, Local distributor will replace, and return within ten (10) business days.

MAINTENANCE INFORMATION

Maintenance:

To retain light efficiency and performance, the LED modules should be cleaned when they appear visibly dirty. Residue from foliar sprays and airborne particulate can attach to the LEDs and diminish the light output. When this is evident follow the cleaning procedure as instructed below to return the fixture to its original state.

Cleaning Procedure:

- * Unplug the AC cord from the fixture and allow it to cool to room temperature.
- * Using a spray bottle filled with 70-99% rubbing/isopropyl alcohol, mist the LED modules and surround plate.
- * Use a soft brush in a non-aggressive circular motion loosen any residue attached to the fixture.
- * Before the alcohol evaporates use a lint-free cloth to dab dry and finish with a gentle wiping motion so as not to leave lint or fabric particles. Repeat if necessary.
- * Make sure the fixture is completely dry before plugging in the AC cord.

