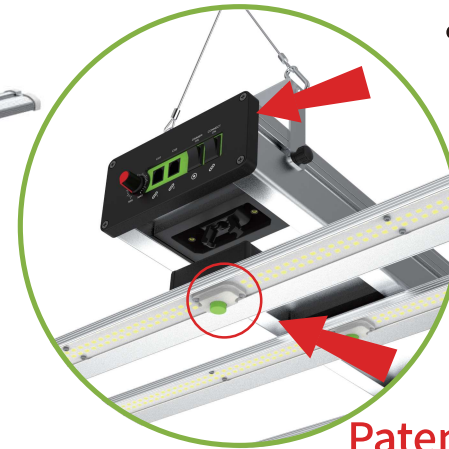# LED GROW LIGHT

## 960W

**electrivo**



**Precise Control**
0-10V dimming control for individual fixture or fixture group dimming control( daisy chain via RJ11 cable )

**SNAP ON/OFF!**
**Patented Design**

FULL SPECTRUM LED | ETL Intertek | FC | IP65 Waterproof

**Application**
**(Suitable for flowering growth.)**
• Indoor Farming
• Vertical Farming

**Features & Benefits**
• Constant current driver, durable life
• Full-spectrum, similar to sunlight, higher crop yield
• IP65 waterproof rating, suitable for high humidity application
• 0-10V dimming
• Flicker free
• Suspension and ceiling mounting option, mounting height 6" - 48"
• Application environment: indoor cultivation

• **One-click snap-on assembly, easy to install and upgrade.**
• **Dimmable upto 100 fixtures via daisy chain.**
• Sustainable packaging to minimize packaging and transportation cost.
• Adjustable hanging cable, adaptable to different stage of the grow cycle.
• Robust mechanical and electrical connection for product reliability.
• Independent external driver,easy installation and upgrade.
• Separable modular design, customizable to unique cultivation requirement.
• Modular design to maximize selling configuration while minimizing redundant inventory.

# LED GROW LIGHT

**960W PPE2.8μmol/J**

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## Features & Benefits

| | |
|---|---|
| Input Power | 960W |
| Photosynthetic photon flux | 2646μmol/s |
| Luminous Efficacy | 2.8μmol/J |
| Viewing Angle | 110° |
| CRI | >88 |
| Input Voltage | 100-277Vac 50/60Hz |
| Amp Draw | 8.58A@120V, 4.88A@220V, 4.49A@240V, 3.92A@277V |
| PF | >0.9 |
| THD | <20% |
| Driver Surge protection | 6KV |
| Dimming | 0-10V |
| LED Type | 3000K+5000K  660nm+730nm(Samsung/Seoul Diodes) |
| Housing | Aluminum Alloy |
| Housing Color | Silver |
| Heat Output | 2822 BTU |
| Operating Temperature | -10~40℃ |
| Operating Humidity | 10%-90% RH |
| Storage Temperature | -25~60℃ |
| Storage Humidity | 10%-90% RH |
| Warranty Time | 5years |
| N.W (KG) | 15.9Kg/35.05LBS |
| G.W (KG) | 17.9Kg/39.46LBS |
| Packing Dimension(mm) | 1162*245*330mm |

## Dimension Drawing

1045

1042

140
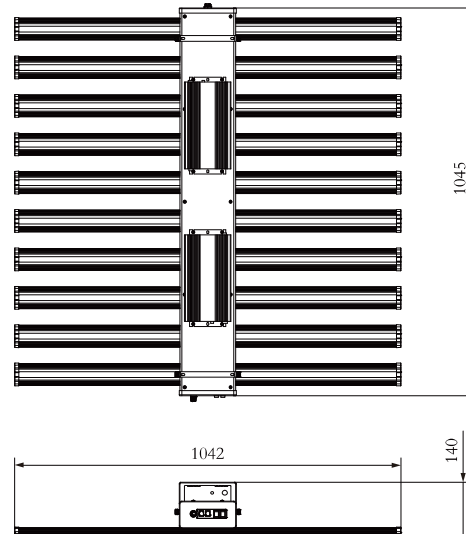
| Length (L) | 1045mm (41.1") |
|---|---|
| Width (W) | 1042mm (41.0") |
| Height (H) | 140mm (5.5") |

## Recommended Application

| Multi-layer | 4-5FT wide benches,4-6 in from canopy |
|---|---|
| Room | footprint 6x6FT Flowering,7x7FT Vegetative |
| Tent | footprint 6x6FT Flowering,7x7FT Vegetative |

## Spectral Distribution
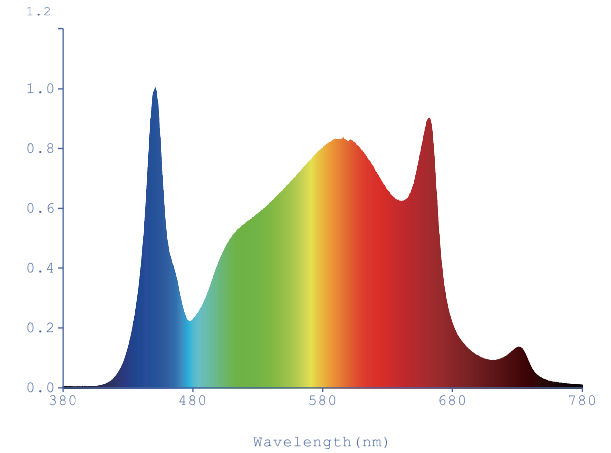
## PPFD Reading -- 4FT to 4FT area

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1054 | 1150 | 1246 | 1256 | 1270 | 1228 | 1167 | 1075 |
| 1178 | 1284 | 1395 | 1430 | 1463 | 1383 | 1274 | 1193 |
| 1195 | 1345 | 1468 | 1493 | 1482 | 1440 | 1342 | 1192 |
| 1187 | 1355 | 1492 | 1554 | 1580 | 1468 | 1344 | 1148 |
| 1164 | 1366 | 1501 | 1562 | 1589 | 1485 | 1364 | 1158 |
| 1223 | 1366 | 1484 | 1507 | 1515 | 1449 | 1331 | 1184 |
| 1156 | 1274 | 1398 | 1418 | 1453 | 1374 | 1271 | 1180 |
| 1058 | 1133 | 1224 | 1220 | 1225 | 1198 | 1146 | 1048 |

0.6m 24"

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1072 | 1235 | 1372 | 1385 | 1403 | 1352 | 1254 | 1090 |
| 1213 | 1425 | 1642 | 1662 | 1684 | 1631 | 1433 | 1244 |
| 1286 | 1532 | 1713 | 1822 | 1825 | 1696 | 1533 | 1284 |
| 1270 | 1571 | 1740 | 1873 | 1861 | 1719 | 1548 | 1242 |
| 1274 | 1562 | 1756 | 1888 | 1873 | 1737 | 1545 | 1249 |
| 1310 | 1531 | 1725 | 1829 | 1805 | 1717 | 1513 | 1298 |
| 1249 | 1435 | 1631 | 1662 | 1659 | 1628 | 1412 | 1243 |
| 1052 | 1218 | 1362 | 1354 | 1380 | 1320 | 1245 | 1058 |

0.45m 18"

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1034 | 1348 | 1471 | 1484 | 1501 | 1464 | 1323 | 1031 |
| 1313 | 1683 | 1971 | 2013 | 2022 | 1943 | 1679 | 1300 |
| 1454 | 1915 | 2136 | 2197 | 2192 | 2109 | 1791 | 1432 |
| 1434 | 1946 | 2168 | 2250 | 2228 | 2201 | 1915 | 1426 |
| 1423 | 1945 | 2158 | 2218 | 2220 | 2162 | 1922 | 1443 |
| 1468 | 1865 | 2119 | 2165 | 2186 | 2091 | 1862 | 1428 |
| 1329 | 1686 | 1960 | 1979 | 2021 | 1932 | 1661 | 1293 |
| 1035 | 1327 | 1467 | 1485 | 1503 | 1449 | 1343 | 1053 |

0.3m 12"

## Performance Data

| Model | Input Voltage | Input Power | PPF | PPE | ETL | DLC | FCC |
|---|---|---|---|---|---|---|---|
| GL10-H10-960-A66-A1D | 100-277Vac | 960W | 2646μmol/s | 2.8μmol/J | Yes | Yes | Yes |

# DIMMER BOX GROUP CONTROL INSTRUCTION

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## Instruction

Fixtures could be daisy chain for group control.

## 1.Definition：

| CH1 | RJ cable inlet |
|---|---|
| CH2 | RJ cable outlet |
| DIMMER    ON/OFF | Group dimming ON/OFF |
| CONNECT  ON/OFF | Group lighting ON/OFF |

## 2. Default setting：

DIMMER:ON    CONNECT:ON    Dimming: MIN (0%)

## 3. Function：

### 3.1 How to turn group ON/OFF

Set all the fixtures "DIMMER" and "CONNECT" on, then the group could be turn ON/OFF by setting one individual fixture to ON/OFF.

### 3.2  How to dim group fixtures

Set all the fixtures "DIMMER" and "CONNECT" on, the fixtures in the group can be dimmed by turning the dimmer dial on the any one of the fixture.

### 3.3 How to control single fixture

If you need to control any single one of fixture, please set the "DIMMER" on and "CONNECT" off , and then the fixture can be controlled individually.

### 3.4 Connect external smart dimming device

This product can be controlld by external smart dimming device with RJ11 connector in two steps:

✴ Connect the smart dimmer via RJ cable.

✴ Set the "DIMMER" OFF and "CONNECT" ON for a desired group of fixture.

## 4.Method of troubleshooting when problems arise：

### 4.1 Unable to turn on the light

Check all the dimmer dial, make sure they are at 100% position.

### 4.2 Out of sync

Power on, group control the fixtures, but some one are out of sync. Check the "CONNECT" is set to "ON" on the fixture(s).

### 4.3 Unable dimming

Power on, dim the fixture the fixture fails to dim. Check the "DIMMER" is set to "ON" on the fixture(s).
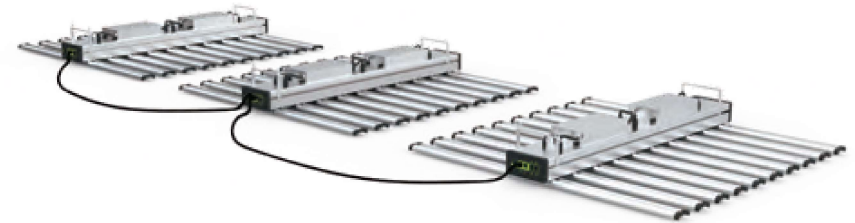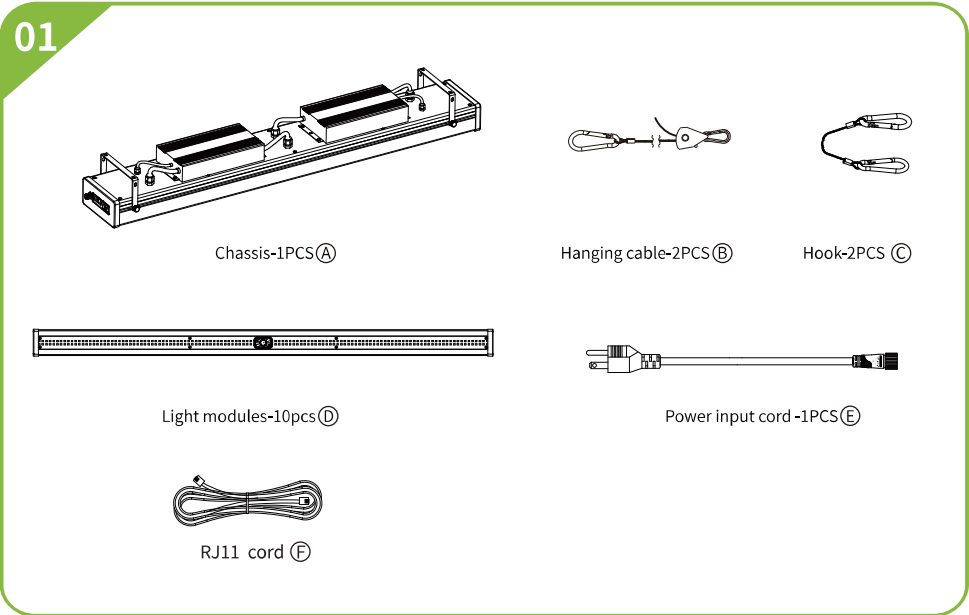
# Installation & Usage Guide

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## WARNING AND CAUTION

✳ Please read the following instructions carefully before using this grow lighting fixture.

✳ Make sure main power is switched off before connecting the light fixture.

✳ DO NOT connect or disconnect the LED fixture under load.

✳ Always allow for a cool down period of at least 30 minutes before touching the LED bars

✳ Please DO NOT use this product outdoors.

✳ Connect the cables according to local laws, safety regulations and electrical code.

✳ Mounting and installing of the LED fixture may only be performed by certified service person, in accordance with the applicable local laws and regulations

## PLANNING THE INSTALLATION

Read all instructions before installation. Before starting installation of this fixture or removal of a previous fixture, disconnect the power by turning off circuit breaker or by removing the fuse at the fuse box.
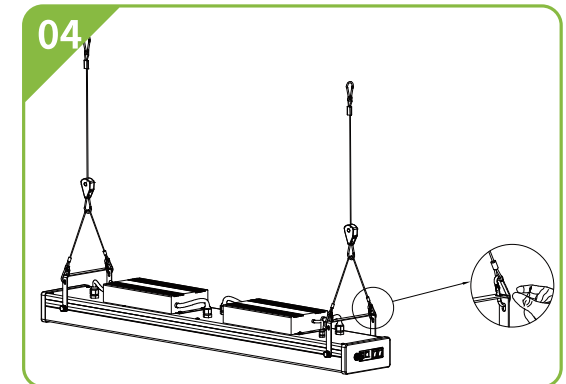
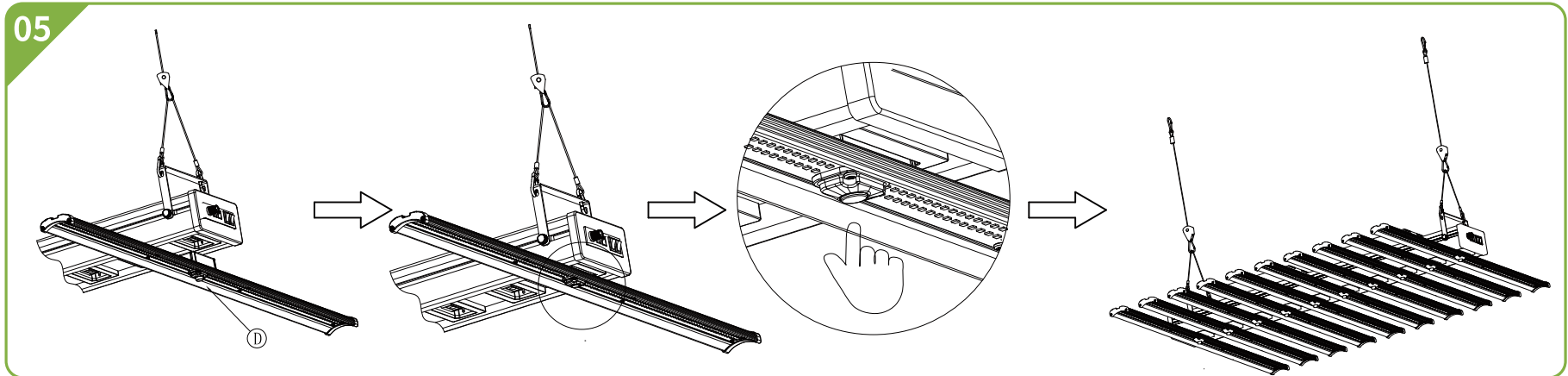## Installation method 1: Hoisting

**01**

Chassis-1PCS Ⓐ

Hanging cable-2PCS Ⓑ

Hook-2PCS Ⓒ

Light modules-10pcs Ⓓ

Power input cord -1PCS Ⓔ

RJ11 cord Ⓕ

•Take everything out of box.
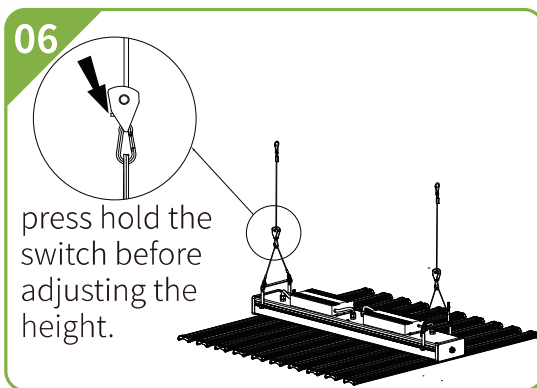
**02**

Ⓐ

**03**

Ⓑ

Ⓒ
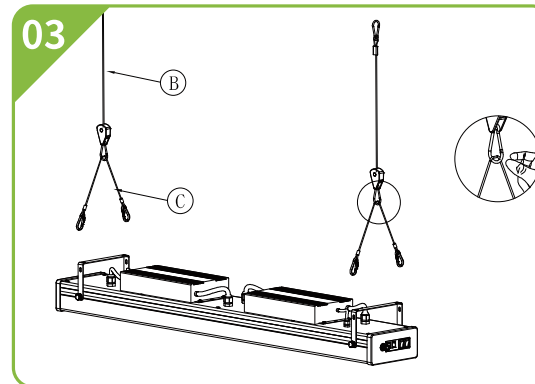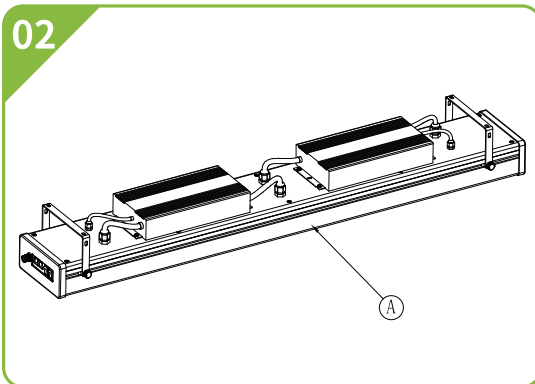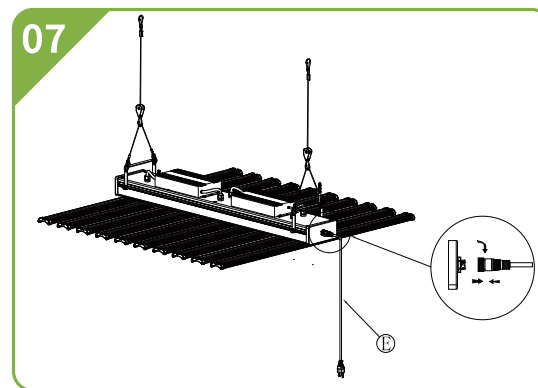
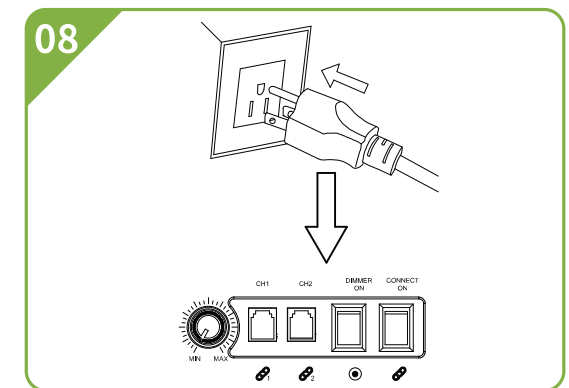•Install the hanging cable.

**04**

•Hook hanging cable to the chassis.

**05**

•Attach the light module to the chassis, press the button to lock.(Press again to remove the light module from the chassis.)

**06**



press hold the switch before adjusting the height.

•Adjust the height by pull the cable.

**07**



•Connect the power cord.

**08**



•Plug in the power.

•Dim to the desired light.

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