



nOKOTECH

UNDERCOVER 150

USER MANUAL



SCAN FOR LATEST USER MANUALS

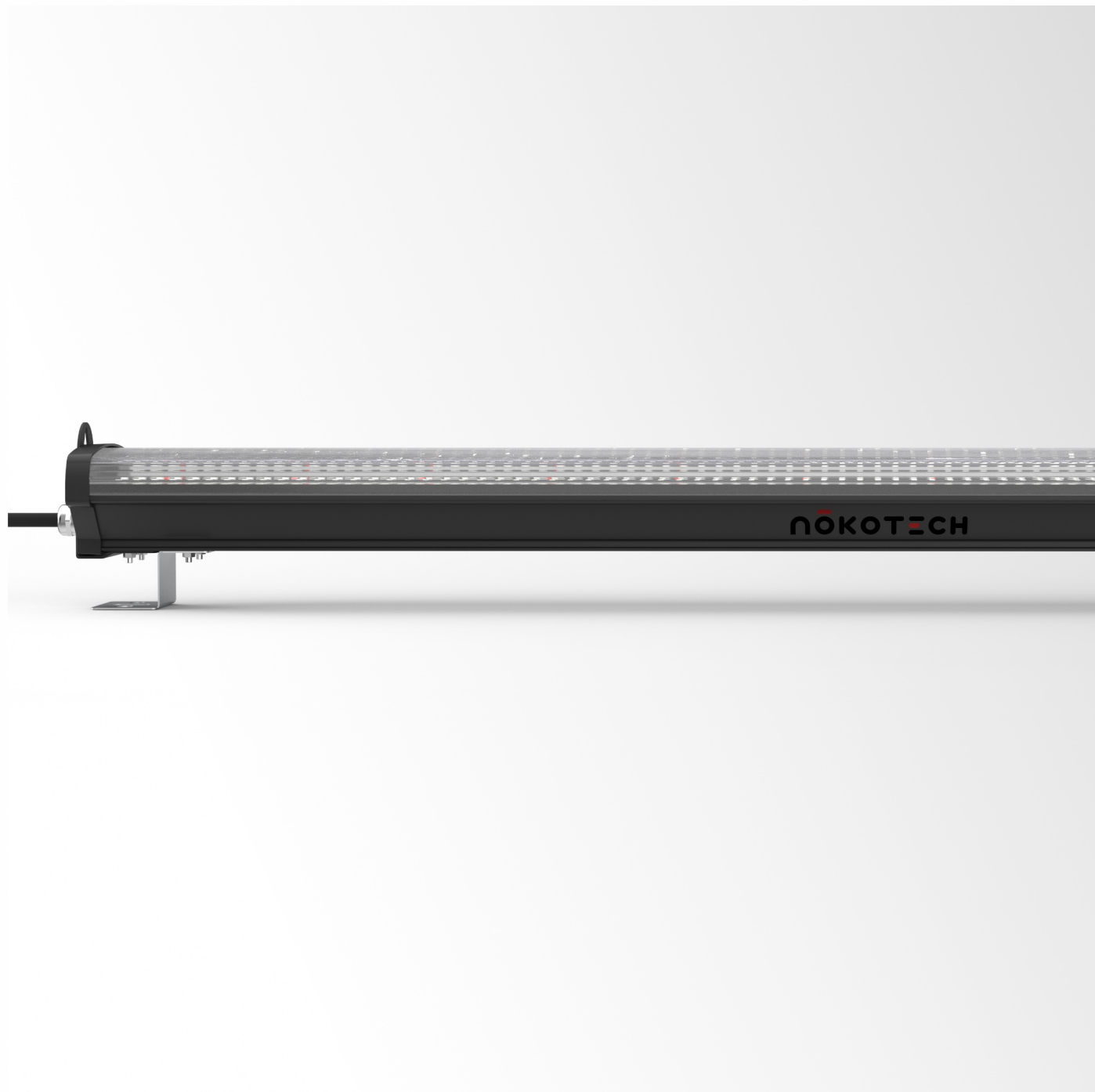


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1. INTRODUCTION

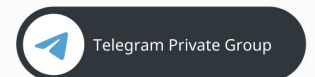
Thank you for purchasing the **UNDERCOVER 150** LED horticultural fixture and joining the NŌKOTECH users club. This manual contains all the information needed to learn, install and use the product. Please read this manual carefully before trying to install and/or operate the UNDERCOVER 150 fixture. If you are not comfortable installing high-performance lighting systems, you should always look for the services of a qualified professional.

We highly recommend you to check for the latest version manual on our webpage www.nokotech.co.uk/support. At the end of this manual, you will find the date of the last edit.

We hope to get your feedback no matter it is good or bad. Your valuable reviews help us take the products to the next level.

■ **For any information, don't hesitate to contact:**

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2. PRODUCT DESCRIPTION

UNDERCOVER 150 is an electronic horticultural LED fixture which is specially designed to be used as under-canopy light to enhance light penetration to the lower parts of plants, which are often shaded by upper leaves. It's a high-performance fixture suitable for any scale of horticulture cultivation. In this manual, the product UNDERCOVER 150 will be referred to as '**the fixture**' or '**LED fixture**'.

This LED fixture is for indoor use only (climate-controlled indoor farms and grow rooms). But it is not meant for use in dwellings for general or architectural purposes illumination. The spectrum output for these LED fixtures is specially designed and manufactured for horticulture use only. Any use other is considered unintended use.

NŌKOTECH can't be held responsible for any possible damage/harm caused by incorrect and/or inadvisable installation and use of the fixture.

WARNING

This warning sign notes the possibility of injury to the user and/or damage to the product if the user does not perform the procedures as described.

ATTENTION

This attention sign notes the problems which may occur if the user does not perform the procedures as described.

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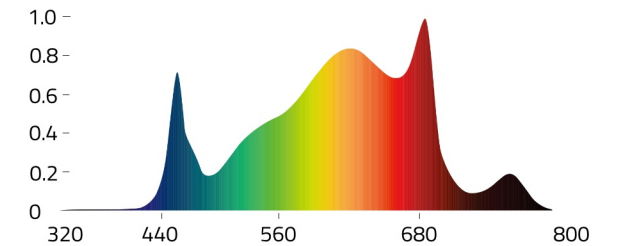
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3. PRODUCT SPECIFICATIONS

SPECIFICATIONS	A pair of lights
Dimensions per light (L.W.H):	990 x 117.5 x 68.7mm / 39 x 4.6 x 2.7in
Net weight (with driver):	5.7kg / 12.6lbs
Max input power:	300W (2 lights with one LED driver)
Input voltage:	200-240V
Dimming port:	0-10V
Input Current:	1.55A@200Vac / 1.35@240Vac
Max PPF output:	836 umol/s
Efficacy:	2.8 umol/J
LED diodes:	San'an & Osram
Max ambient temperature:	35°C / 95°F
Ingress Protection rating:	IP65
Lifespan:	>50.000h



UNDERCOVER 150 fixture uses high-quality, very efficient San'an and Osram LEDs to create a balanced full-spectrum with 730nm Far Red to enhance yield quality and quantity.

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4. SAFETY RECOMMENDATIONS

Please carefully read recommendations and warnings before assembling and using the fixture!

The installation and use of the fixture is the responsibility of the end user. Incorrect installation can cause damage to the product. The warranty shall become void if the product and/or electronic components are damaged due to incorrect installation.

WARNING

- Always comply with local building and electrical codes when installing or using the fixture.
- Do not open or disassemble the LED fixture as it contains no serviceable parts and tampering can be hazardous, voiding the warranty.
- Connect the system only to appropriate voltage power sources using the provided plug.
- Turn off the main voltage before starting installation or maintenance. Allow the fixture to cool for 20-30 minutes before handling.
- Avoid direct exposure to the light source while the fixture is on to prevent eye damage. Use special glasses in the grow facility with the fixture turned on.
- Do not use the product if the fixture or its power cable is damaged. - Modifying cables can cause unwanted electromagnetic effects.
- Preserve the grounding or polarized plug for safety. Only replace the power cable with a correctly rated one.
- Safeguard power cables from damage, especially at entry points to outlets and the unit.
- The fixture and power supply are not suitable for submersion in water.
- Avoid using the LED fixture near flammable, explosive, or reactive substances due to its high operating temperatures.
- Refrain from touching LEDs as they are easily damaged.
- Use caution when handling the fixture to avoid injury, especially when mounting or adjusting its position.
- Follow manufacturer recommendations for optimal operating conditions, including ambient temperature and humidity levels.
- Keep the fixture away from children and pets to prevent accidents or damage.

4.1 SAFETY RECOMMENDATIONS

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ATTENTION

- Never pull the cord to unplug the fixture; pull the plug only.
- Surge suppressors are highly recommended to protect your grow light investment. Power surges are one of the leading causes of premature grow light failure.
- Hang the fixture with a strong cord or chain from both ends. Ensure hooks are solidly screwed into ceiling studs, rated to hold at least 10kg (22 lbs) each. Insert expansion anchors into the ceiling if studs are not available.
- If placing the fixture on the ground, ensure that it (with driver) won't be reached by accidental water flooding and that it stands steadily.
- To ensure safe operation, control the grow room temperature with mechanical ventilation or cooling system to below the maximum ambient operating temperature of 35°C (95°F).
- Do not use sulfur vaporizers or water misters as sulfur and calcium deposits on LEDs will decrease efficiency.
- Avoid cleaning the fixture with detergents, abrasives, or other aggressive substances.

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5. PRODUCT INSTALLATION

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What is included in the box?

LED fixture:	2 units
LED driver:	1 unit
AC plug cord:	1 piece
Rope ratchets:	4 pieces

Dimming cable A (connecting driver to controller):	1 piece
Dimming cable B (connecting between drivers):	1 unit
Nuts and screws:	4 pieces
Metal brackets:	4 pieces

Preparation for installation

1. Refer to your lighting plan. Arrange a place for the fixture to be hung or placed on a dry and steady surface.
2. Remove the fixture from the packaging and check the contents. Ensure there are no damages and it is safe to use.
3. Bring any additional tools and/or hardware that may be required to mount the fixture.
4. Switch off the main voltage.

WARNING

- Mounting and installing the fixture must be in accordance with the applicable local laws and regulations.
- Make sure the local cabling can support the voltage and current requirements of the fixture.
- The installer is responsible for correct and safe installation.

5.1 PRODUCT INSTALLATION

Fixture installation

The two fixtures are equipped with one LED driver in the same box. Always first connect the fixtures and the LED driver using a power cable. Only then plug the power cable into the electrical socket.

WARNING

- Never block the cooling fins on the fixture and LED driver. Ensure at least 10 cm (4 in) of clearance on all sides for proper cooling.
- To ensure the safe operation of the LED fixture, it is necessary to control the temperature of the grow room by mechanical ventilation or cooling system to below the maximum ambient operating temperature of 35°C (95°F).
- If hanging the fixture, use appropriate hangers or tools rated to hold at least 10 kg (22 lbs) each.

When routing the power cord ensure that:

- The cord is not concealed or extended through a wall, floor, ceiling, or other parts of the building structure, such as above a suspended or dropped ceiling.
- The routed cord is not subject to strain, and is protected from physical damage.
- The cord is not permanently affixed to the building structure.

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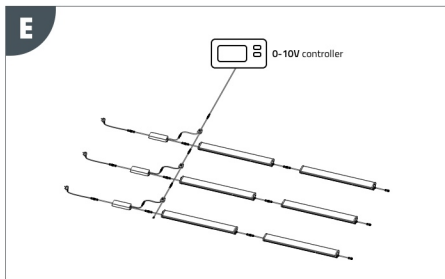
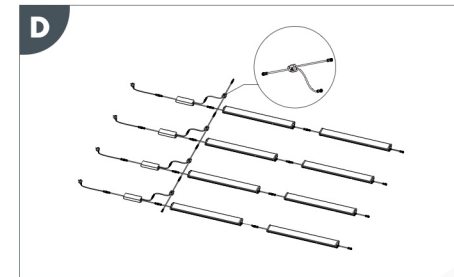
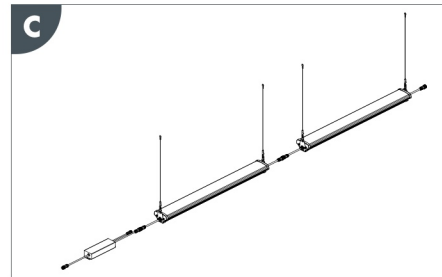
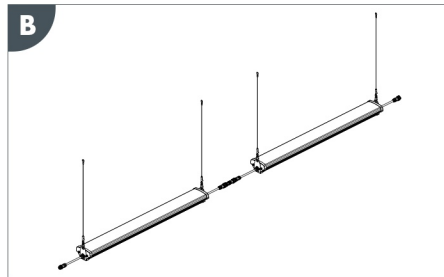
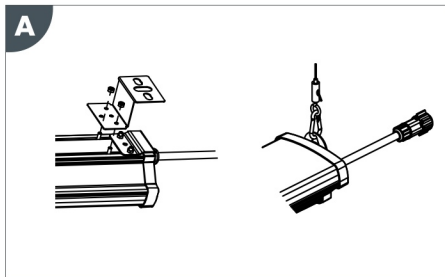
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5.2 PRODUCT INSTALLATION

1. Attach metal brackets with screws for placing the fixture on a flat surface or use rope ratchets if hanging it **(A)**.
2. Firstly, connect the two LED fixtures together **(B)**.
3. Connect the LED driver to one side of one LED light **(C)**.
4. Connect the AC plug cord to the driver. When plugged into the power socket, the lights will turn on.
5. To connect multiple pairs of LEDs and control them using a 0-10V controller, use dimming cable B to connect driver to driver **(D)** and dimming cable A to connect the driver to the controller **(E)**.



ATTENTION

- Before assembling, check if the power cord is not damaged and safe to use.
- Before assembling, ensure the fixture / driver is not plugged into the electrical power.

6. MAINTENANCE

In the event that the product is defective or damaged, contact the reseller from whom you purchased the fixture.

WARNING

- Always turn off the main voltage before starting installation or maintenance work.
- High voltage: risk of fire and electric shock.
- Do not connect or disconnect the LED fixture while it's under load.
- Avoid contact. The fixture reaches high temperatures during operation. Allow 20-30 minutes for it to cool down before handling.
- Never open or disassemble the product, as it will void the warranty and damage the water-tight seal.
- The fixture and power supply are not intended for submersion in water.

ATTENTION

- Avoid cleaning the LED fixture with detergents, abrasives, or aggressive substances such as solvents, acetone, alcohol, alkaline cleaners, window cleaners, and similar products.
- Regularly inspect the power cables of the fixture to ensure they are undamaged and safe for use.
- Periodically check the product for the accumulation of dust and dirt, and clean if necessary.

Cleaning the LED fixture

Before cleaning the fixture, ensure it has cooled down to room temperature. Use a feather duster or a soft, damp cloth for cleaning. Allow the fixture to fully dry before plugging it in again.

7. STORAGE, DISPOSAL & WARRANTY

The LED fixture should be stored in a dry and clean environment with an ambient temperature of 0°C to 45°C. Additionally, it must not be discarded as unsorted municipal waste but collected separately for treatment, recovery, and environmentally sound disposal.

Warranty

NŌKOTECH warrants the mechanical and electronic components of the product to be free of defects in material and workmanship if used under normal operating conditions for a period of three (3) years from the original date of purchase.

This Limited Product Warranty does not cover any damage due to: (a) transportation; (b) storage; (c) improper use; (d) failure to follow product instructions; (e) modifications; (f) unauthorized repair; (g) normal wear and tear (including powder coat); (h) external causes such as accidents, abuse, or other actions or events beyond NŌKOTECH's reasonable control.

If the product shows any defects within this period and that defect is not due to user error or improper use, we (if you bought from NOKOTECH GROUP LTD) or another reseller you bought from, shall, at its discretion, either replace or repair the product using suitable new or reconditioned products or parts. In case it is decided to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e., three (3) years from the date of purchase of the original product. For service, return the product to the reseller/shop you bought from with the original sales receipt. For more information, visit www.nokotech.co.uk/warranty.



Watching something grow
is marvelous



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