



nOKOTECH

SIMPLEX PRO / PRO-FIT

USER MANUAL



SCAN FOR LATEST USER MANUALS

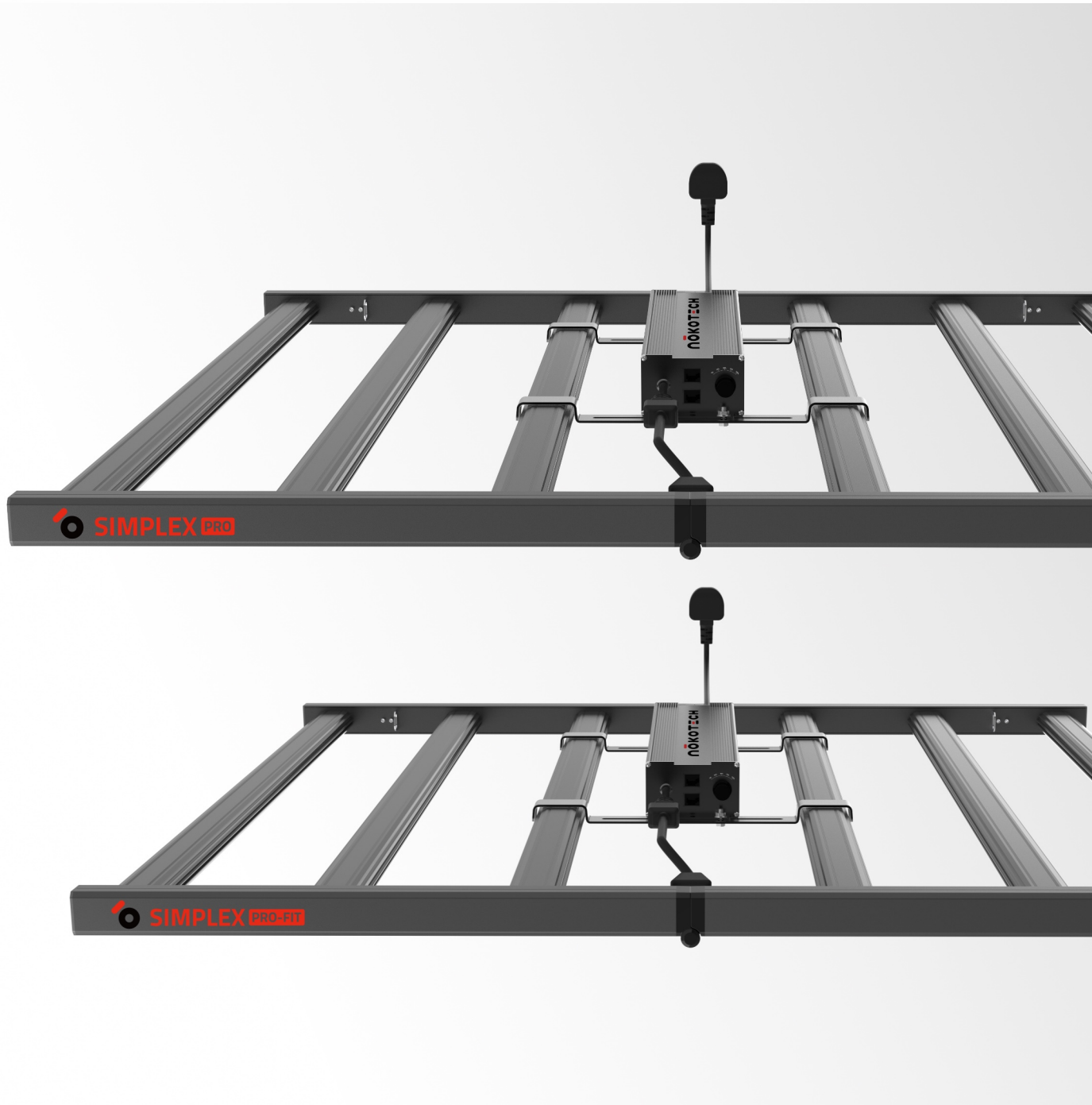


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1. INTRODUCTION

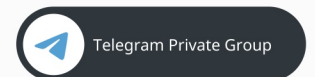
Thank you for purchasing the **SIMPLEX PRO** or **PRO-FIT** LED horticultural fixture and joining the NŌKOTECH users club. This manual contains all the information needed to learn, install and use the product. Please read this manual carefully before trying to install and/or operate the SIMPLEX PRO or PRO-FIT 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:**

support@nokotech.co.uk
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2. PRODUCT DESCRIPTION

SIMPLEX PRO / PRO-FIT is an electronic horticultural LED fixture which can be powered and controlled by 680W LED driver from NŌKOTECH or with any 600-680W Electronic HPS Ballast, using together with HPS Power converter from NŌKOTECH (sold separately). They are high-performance fixtures suitable for any scale full-cycle horticulture cultivation: from propagation and cloning through vegetative growth and blooming stages. In this manual, the product SIMPLEX PRO / PRO-FIT 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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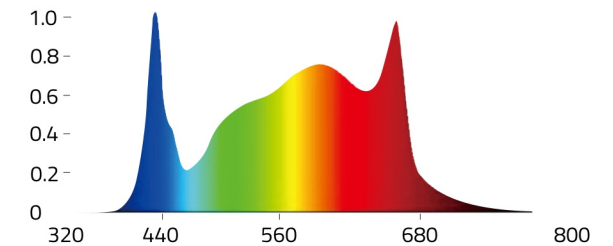
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3. PRODUCT SPECIFICATIONS

SPECIFICATIONS	PRO	PRO-FIT
Dimensions without ballast (L.W.H):	1120 x 1076 x 35mm / 44 x 42.3 x 1.38in	950 x 950 x 35mm / 37.4 x 37.4 x 1.38in
Net weight (without ballast):	4.55kg / 10lbs	4kg / 8.82lbs
Max input power:	680W	680W
Input voltage:	200-240V	200-240V
Dimming port:	0-10V	0-10V
Input Current:	3.66A@200Vac / 3.05@240Vac	3.66A@200Vac / 3.05@240Vac
Max PPF output:	1896 umol/s	1896 umol/s
Efficacy:	2.8 umol/J	2.8 umol/J
LED diodes:	San'an & Osram	San'an & Osram
Max ambient temperature:	35°C / 95°F	35°C / 95°F
Lifespan:	>50.000h	>50.000h

SPECIFICATIONS	LED DRIVER 680W from NÖKOTECH
Dimensions (L.W.H):	364.4 x 88.4 x 53mm / 14.3 x 3.5 x 2in
Net weight:	2.5kg / 5.5lbs
Max input power:	680W
Input voltage:	200-240V
Dimming port:	0-10V
Max ambient temperature:	35°C / 95°F
Power factor:	>0.9



SIMPLEX PRO & PRO-FIT fixtures use high quality very efficient San'an and Osram LEDs to create a balanced full-spectrum light best suitable for photosynthesis in all growth stages.

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, as it becomes hot during operation.
- 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 23 kg (50 lbs) each. Insert expansion anchors into the ceiling if studs are not available.
- 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

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

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What is included in the box?

LED fixture (without driver/ballast):	1 unit
Brackets for a driver/ballast:	2 pieces
Screws/nuts for the brackets:	4 pairs
Rope ratchets:	4 pieces

Preparation for installation

1. Refer to your light plan. Arrange the place for the fixture to be mounted. Prepare the rope ratchets to hang the fixture.
2. Remove the fixture from the packaging and check the contents. Check if there are no damages and 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.
- Take caution when handling light bars. Ensure the LED array does not come in contact with sharp objects or force that may damage the diodes. Avoid touching the diodes with your hands to limit degradation, even in a powered-off state.

5.1 PRODUCT INSTALLATION

Fixture installation

The fixture is not equipped with a driver or ballast in the same box. When using a 680W LED driver from NŌKOTECH or any other compatible 600-680W HPS ballast, first connect the fixture and the LED driver or fixture with the HPS converter and HPS ballast using a power cable. Only then plug the power cable into the electrical socket.

WARNING

- Never block the cooling fins on the fixture. In order for the system to properly cool itself, at least 30cm (12in) of clearance above your fixture and 5cm (2in) on all sides is recommended.
- 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).
- Hang the fixture to appropriate "hangers" or any other tools rated to hold at least 23 kg (50 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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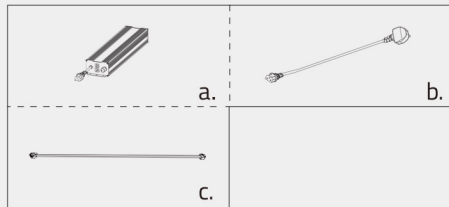
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5.2 PRODUCT INSTALLATION

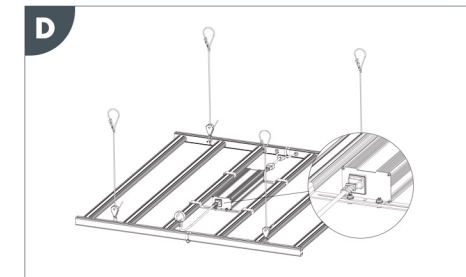
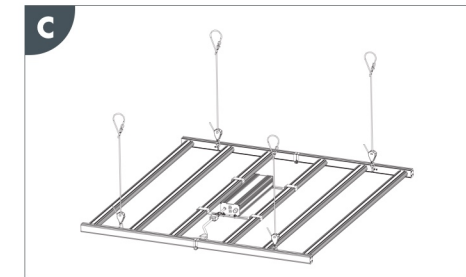
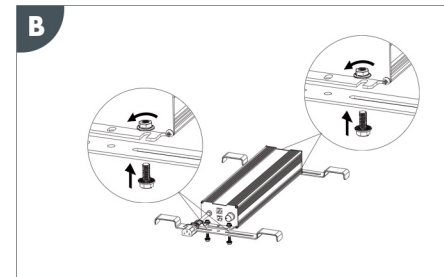
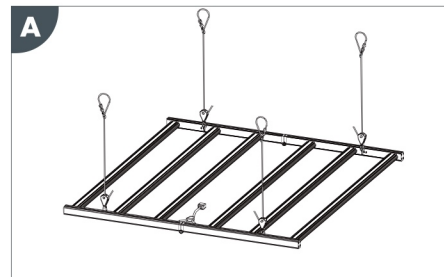
If using 680W LED Driver from NÖKOTECH

1. Unbox the light and place it on a flat surface. Make sure the surface is clear of objects that may damage LEDs.
2. The fixture comes equipped with 4 hanging points. Use Rope Ratchets to hang the fixture on the ceiling of the grow room. **(A)**
3. Assemble the LED Driver by fixing brackets on it **(B)**. Place the Driver in the middle of the fixture and connect it to the cable on the fixture. **(C)**
4. Distribute the fixture weight evenly to hang it level. Maintain at least 15 cm (6 in) of space between the fixture and the canopy.
5. First, connect the fixture to the Driver. Then plug the power cable into the socket, and you're ready to go. **(D)**

680W LED driver set (sold separately)



- a. LED driver 1pc
- b. AC plug cord 1pc
- c. RJ signal series cable 1pc



ATTENTION

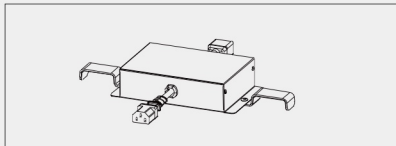
- Before assembling, check if the power cord is not damaged and safe to use.
- Before assembling, ensure the fixture / driver or HPS ballast is not plugged into the electrical power.

5.3 PRODUCT INSTALLATION

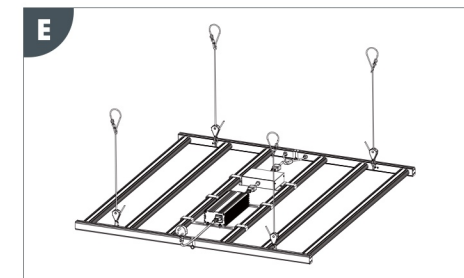
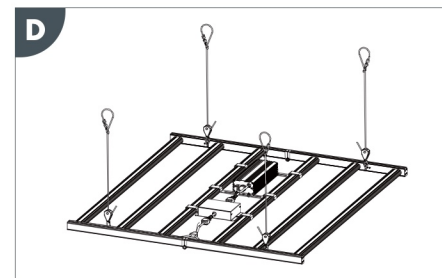
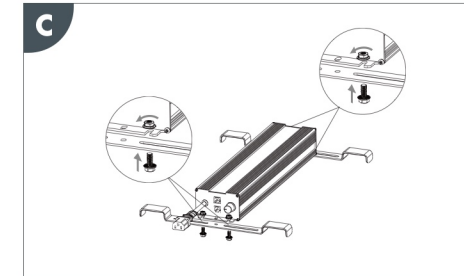
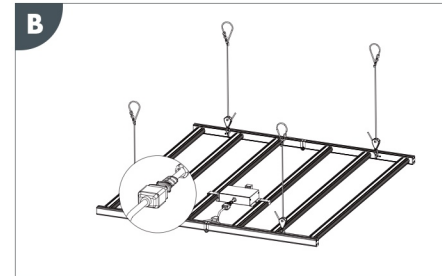
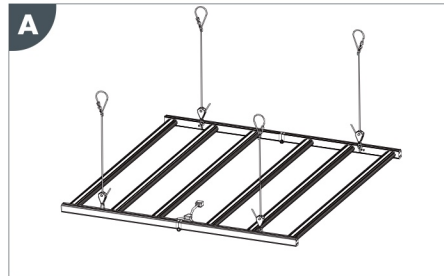
If using HPS Ballast (up to 680W)

1. Unbox the light and place it on a flat surface. Make sure the surface is clear of objects that may damage LEDs.
2. The fixture comes equipped with 4 hanging points. Use Rope Ratchets to hang the fixture on the ceiling of the grow room. **(A)**
3. Assemble the HPS POWER CONVERTER, place it on the middle light bars, and connect it to the fixture. **(B)**
4. Assemble your HPS ballast using our included brackets **(C)**, place it on the bars, and then connect the HPS ballast to the HPS POWER CONVERTER. **(D)**
5. Distribute the fixture weight evenly to hang it level. Maintain at least 15 cm (6 in) of space between the fixture and the canopy.
6. First, connect the fixture to the HPS POWER CONVERTER and ballast. Then plug the power cable into the socket, and you're ready to go. **(E)**

HPS POWER CONVERTER (Sold separately)



The HPS POWER CONVERTER is used exclusively to connect HPS ballasts that are in the range of 600 to 680 watts of power.



ATTENTION

- Before assembling, check if the power cord is not damaged and safe to use.
- Before assembling, ensure the fixture / driver or HPS ballast is not plugged into the electrical power.
- This fixture (with HPS POWER CONVERTER) is compatible with most third-party HPS ballasts that are in the range of 600-680 watts of 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.
- To minimize degradation, refrain from touching the diodes, even when the fixture is powered off.

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. Avoid touching LED chips, as it may cause damage.

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.



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is marvelous



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