ILUMINAR

700W iLogic™ MS PLUS

USER MANUAL

iLogic™ MS Plus

700W IL-MSP-700

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01
Pre-Install Information

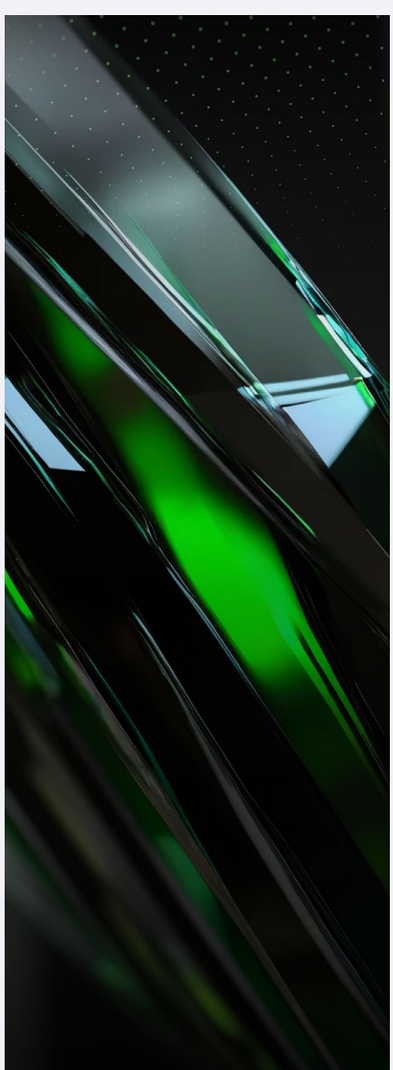
Please read this manual thoroughly prior to installing or operating the ILUMINAR iLogic™ MS PLUS 700W

- Observe all safety precautions (see page 11), seek the services of a qualified electrician, installation professional, or call ILUMINAR Lighting technicians for assistance.
- DO NOT handle or touch the fixture while in use.
- Connect the fixture only to the power sources of the appropriate voltage using the correct AC plug type. Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet to the unit. Only connect the fixture to an electrical outlet or extension cord of comparable standard and level rating. Connect the fixture ONLY to the power sources of the correct voltage using the plug received.
- The fixture should only be cleaned as directed. Always seek service for your system by qualified service personnel if any of the following occur:
    1. The fixture shows a noticeable change in performance.
    2. The powersupply cord or plug is damaged.
    3. The fixture has been dropped, or the exterior is damaged.

DELIVERY CONTENTS

- 1x 700W LED Fixture
- 1x LED Driver
- 1x Power Cable with Plug Additional
- 1x 3m RS485 Signal Cable
- 2x Adjustable Hanging Kits
- 2x un-adjustable Hanging Kits

Please keep the instruction manual and desist from throwing it away. It might come in handy with future troubleshooting.



02 Technical Specs

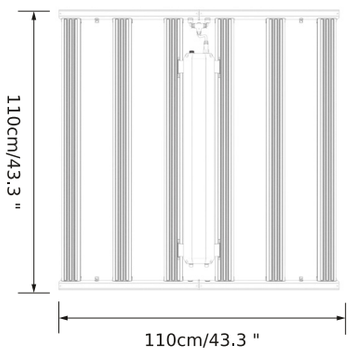
MODEL: ILOGIC MS PLUS **WATTS** 700W
VOLTAGE: 100-277V **SKU** IL-L700MS

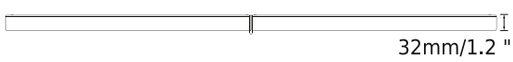
TECHNICAL SPECS

Rated Voltage	100-277V
Power Consump	700W±5%
Power Supply	Sosen LED Drivers
ePAR - PPF	2030 μmol/s
ePAR Efficacy - Efficacy	Up to 2.9 μmol/J
LED Spectrum	Full Spectrum + UV + IR
Min Power Factor - Power Factor	>0.9
THD	<10%
Crest Factor	<10%
BTU	2300
Frequency	50 / 60Hz
Dimming	0-100% dimming via RS485
Ambient Temperature - Working	0°C - 35°C / 32° - 95°F
Relative Humidity	<90%
Color Temperature	3600K
Color Rendering Index	85
Emitting cooling	Aluminum heatsink
Light Distribution - Beam Angle	120 Degree
Waterproof Rating	IP65
LED Lifespan	50000 hours
Daisy Chain	Max. 256 LED fixtures for output A and output B individually
Light Source	2520 * Samsung LM281B+ Pro + 192 * Honglitronic SMD3535 660nm + 144 * Honglitronic SMD3030 385nm (UV) + 144 * Honglitronic SMD2835 730nm (IR)

PHYSICAL SPECIFICATIONS

Height	75 mm/2.9″
Weight - N.W./G.W.	13.5kg/15.5kg | 29.7lbs/ 34.1lbs
PACKAGE SIZE	1130*575*85mm / 44.5* 22.6*3.3″

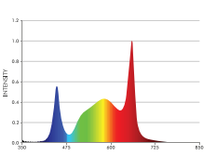


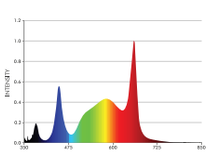


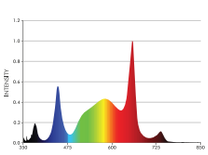
VOLTAGE AND AMPERAGE

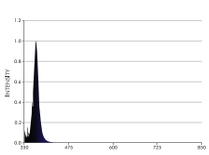
Voltage	120V	208V	220V	240V	277V
Amperage	5.84A	3.37A	3.19A	2.92A	2.53A

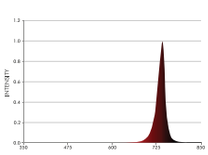
SPECTRUM

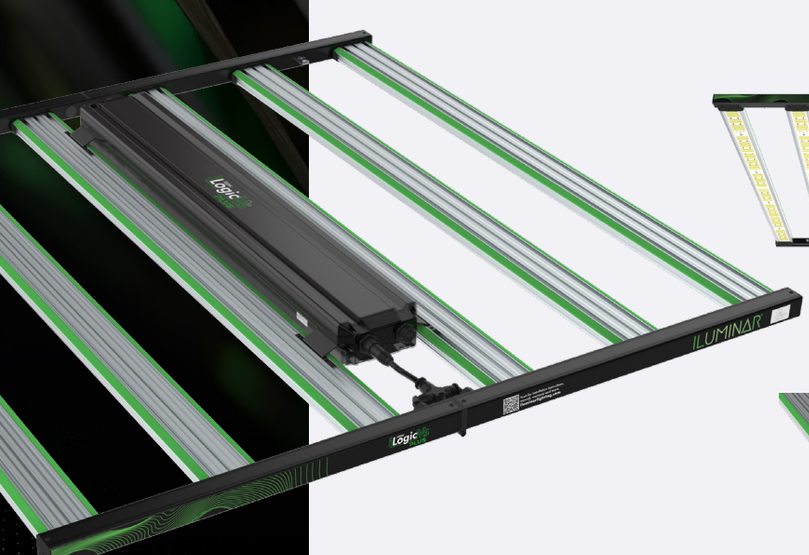

Full Spectrum 100% ON.

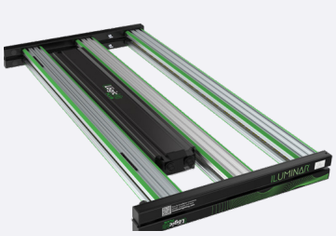

Full Spectrum ON 100% + UV 100% ON.

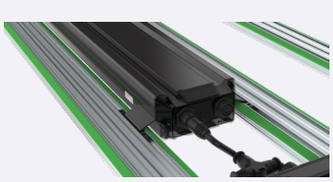

Full Spectrum 100% ON + UV 100% ON + IR 100% ON.


UV 100% ON.


IR 100% ON.







5 YEAR WARRANTY

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03
Physical Specifications

MAIN PARTS OF LED FIXTURE:

1 Aluminum Frame	5 Bracket
2 Signal In & Out	6 Driver Box
3 Hanging Ring	7 AC Input
4 Aluminum LED bar	8 DC Output

Folding design and compact package:

Folding design and compact package:

To replace single LED bar

To replace driver box

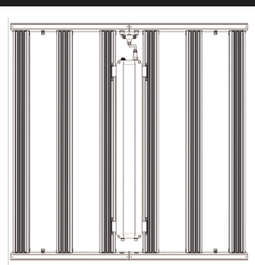
04
Hardware & Accessories

The **iLogic™ MS PLUS 700W** can be hung from rope ratchets or can be mounted to a rack.

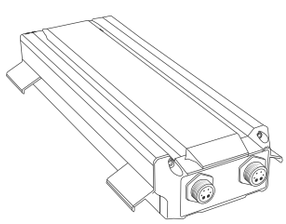
Before you begin installation, check that you have all the necessary parts to begin.

IN THE BOX

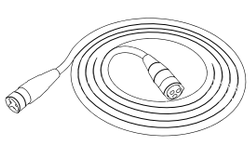
1 iLogic™ MS PLUS 700W



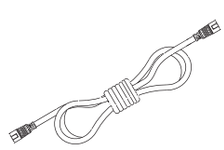
1 LED Driver



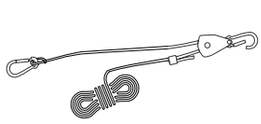
1 Power Cable



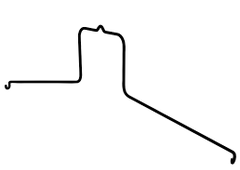
1 Signal Cable



2 Adjustable Hanging Kits



2 un-adjustable Hanging Kits

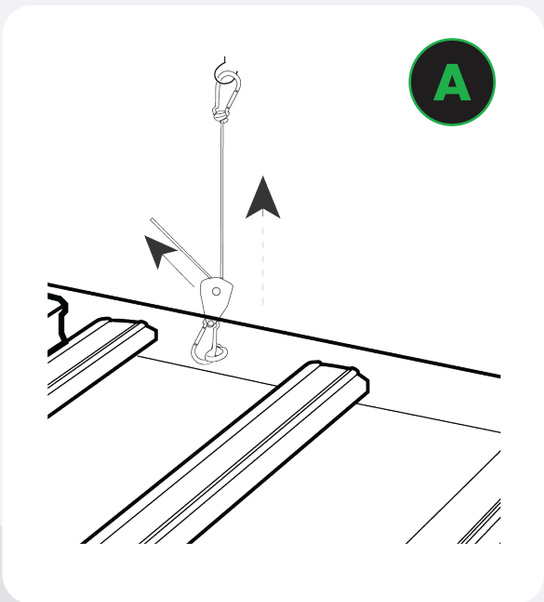


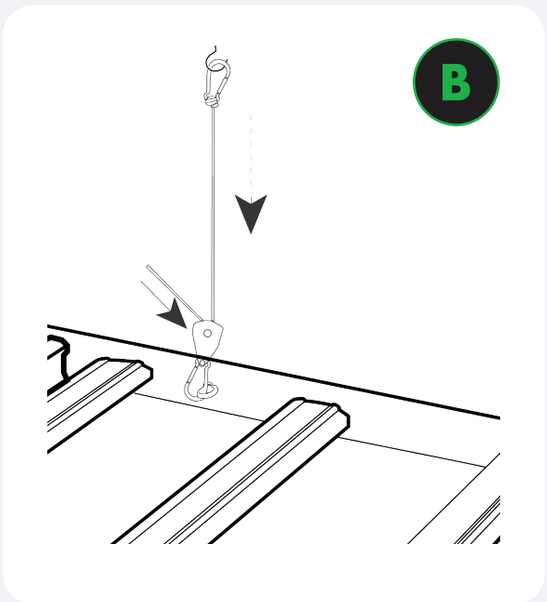
05
Hanging Instalation

1. To suspend mount, attach the 4 rope ratchets that come packaged with this fixture to the LED.

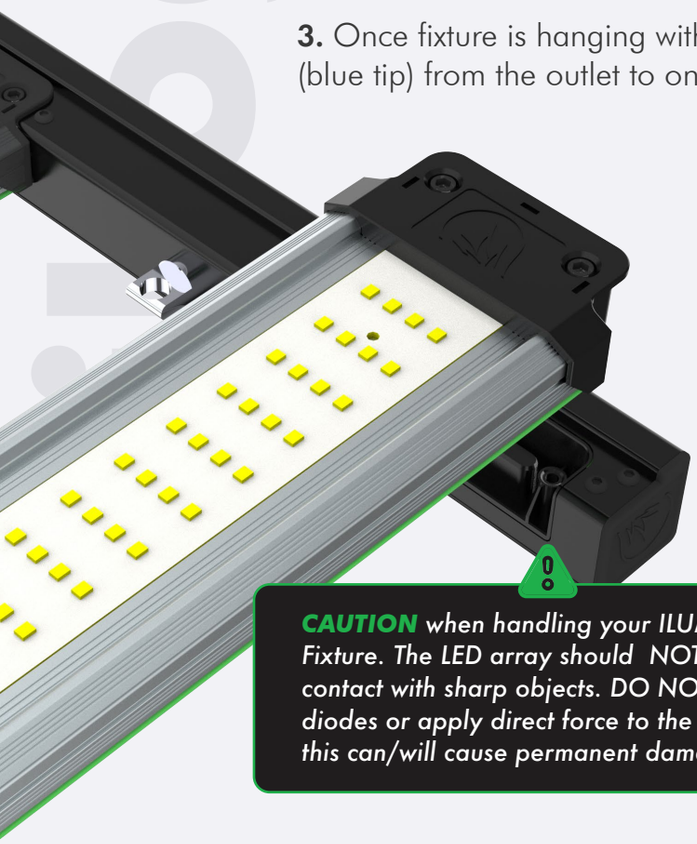
2. Lift the LED and attach the carabiners to pre-installed hooks from ceiling or mounting beam. The ratchets should be installed closest to the LED (and not the ceiling).

A: Remove slack to raise fixture.
B: Give slack to lower fixture.

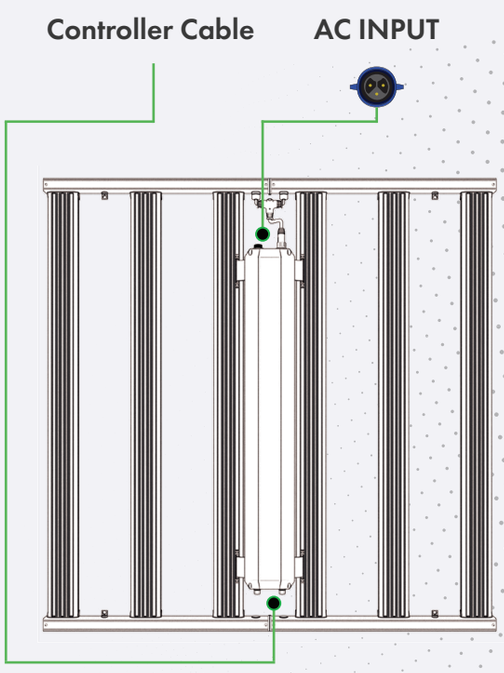




3. Once fixture is hanging with all LED bars installed, connect the power cable (blue tip) from the outlet to one side of the fixture.



***CAUTION** when handling your ILUMINAR Fixture. The LED array should NOT come in contact with sharp objects. DO NOT touch diodes or apply direct force to the diodes as this can/will cause permanent damage.*



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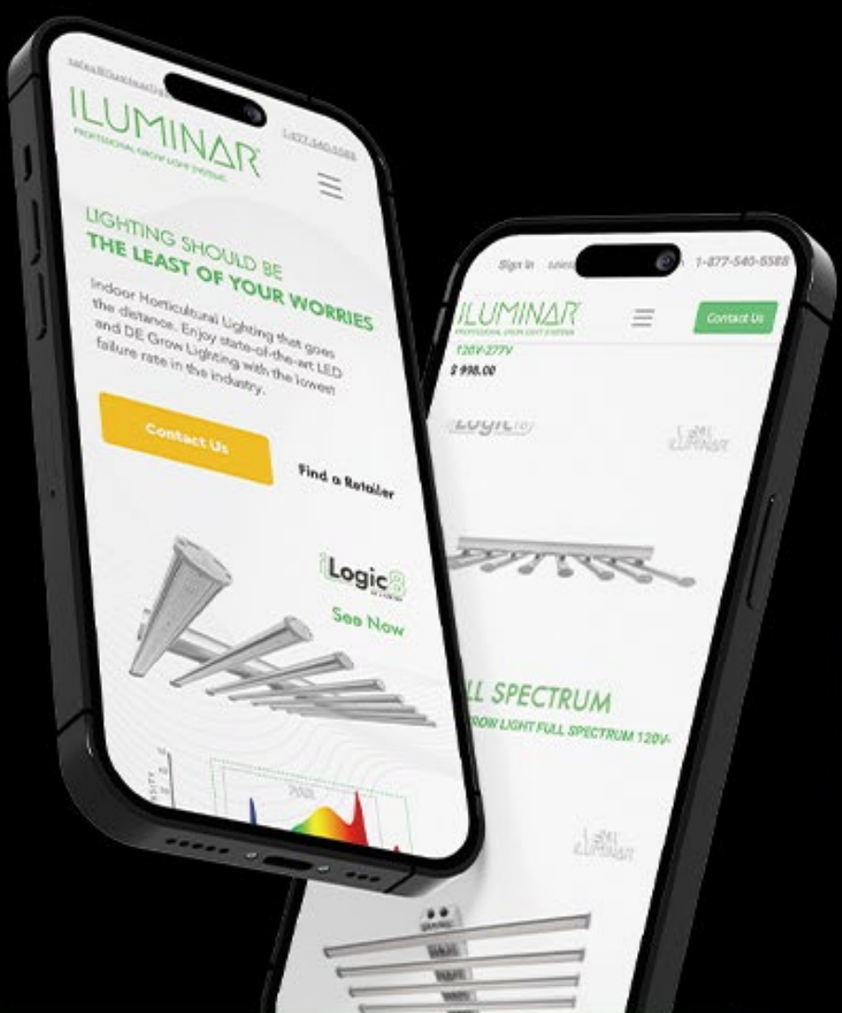
BEFORE YOU BUY AN LED
CHECK YOUR
REBATE



FIND OUT MORE

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07
Important Cautions & Warranty

PREPARATION

Transportation

Improper transportation may harm or can even cause damage to LED lamp and power housing box). In case of obvious damage or incomplete scope of supply, please refer to your vendor immediately.

Unboxing

Please handle and unbox the LED lamp with care! Check the delivery contents for completeness first. A detailed list of the product range is contained on the inner cover in this manual.

Through transport or due to a long storage time, the LED-modules might get a little polluted. Therefore we recommend to clean the modules before each use with a dry and soft tissue.

OPERATION

Safety measures & precaution

Warning! This LED fixture is powered with electricity **(AC110-277V)**! To prevent injury, we ask you to desist from improper use!

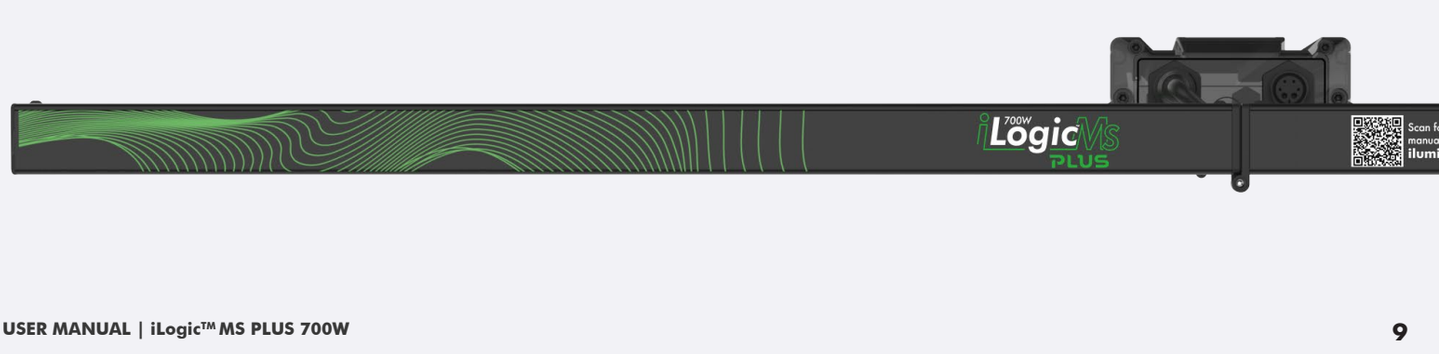
•• Never open the case of the device! Health hazards await the consumer and the warranty of the device expires.

Putting into service

Operate the LED fixture only horizontally, while hanging or slightly angled (approx. about 20°). Deploy the LED lamp fixture about 30-60cm above the top of the plants.

Proper use

Do not use the LED fixture vertically or as illumination device upside-down (direct eye contact and long exposure over time may cause permanent damage to your eyesight!). We don't advise you to deploy the device as a room illuminant. It is exclusively designed and developed for plant breeding, cultivation and hibernation. Please ensure that the LED fixture is being operated out of sight and out of reach of children and animals to protect their eyes!



07
Important Cautions & Warranty

CAUTION

Please read the following list carefully prior to beginning installation.

1. Leave at least one inch of space between the fixture and the mounting area for maximum performance and lifespan.

2. ALWAYS wear protective eye wear when looking directly at the diodes to prevent eye damage.

3. Only handle, clean or move fixture when it's unplugged and completely cool.

4. Keep the fixture free of dust, debris, deposits to ensure the maximum potential of the fixture.

5. NEVER use cloth to clean the diodes. This will scratch the diodes and could potentially break or dislodge them.

6. DO NOT use chemicals to clean the fixture. Use ONLY low pressure air or low pressure water to remove dust and debris.

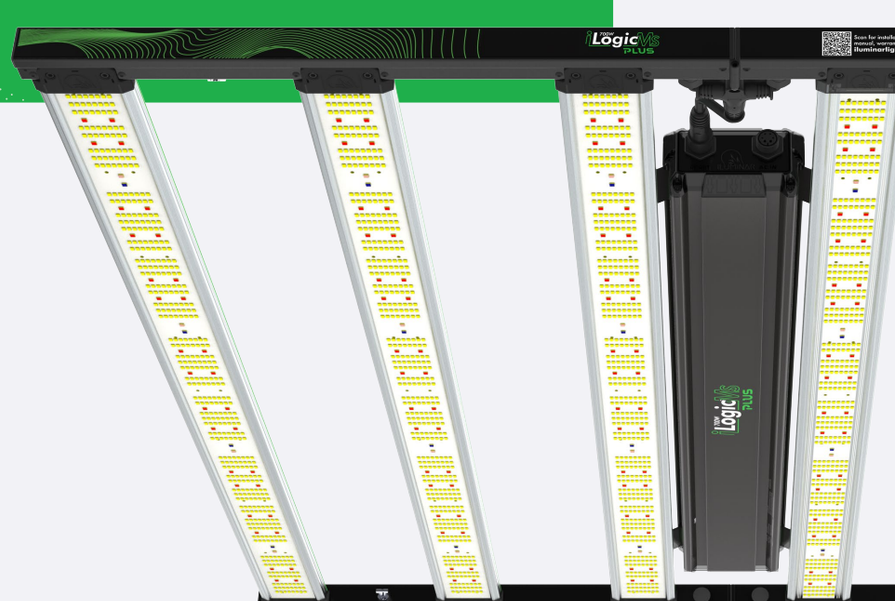
7. Do NOT exceed 80% max load for breakers due to Inrush current in LED fixtures.

8. Do NOT use sulfur vaporizers.

GUARANTEE

5 YEAR WARRANTY

At ILUMINAR, we stand behind our products and our technology as well as our customers. **All ILUMINAR LED** fixtures are backed by our 5-Year Guarantee. Please visit our website iluminarlighting.com/warranty for more information.



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