

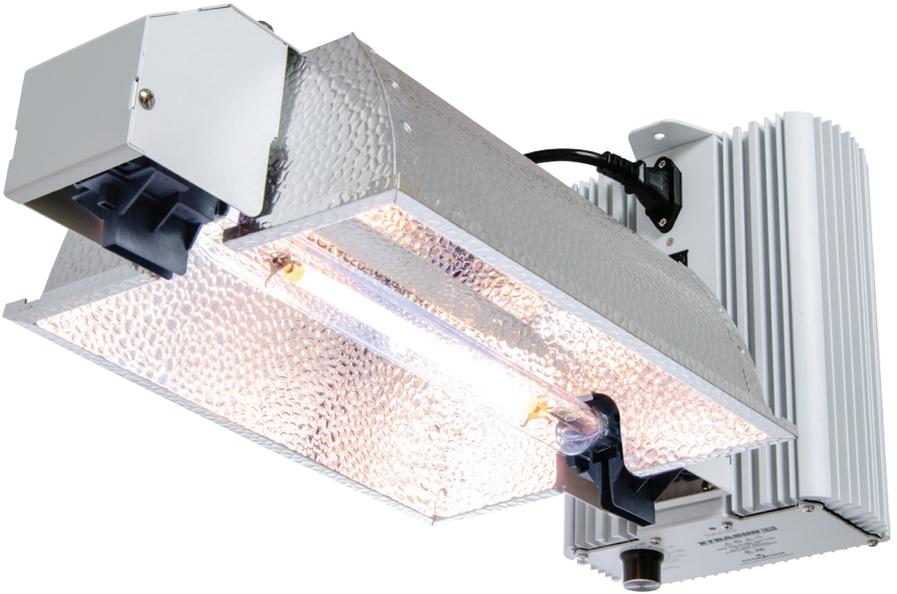
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# INSTRUCTIONS

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# XTRASUN<sup>®</sup> DE

## DOUBLE-ENDED LIGHTING SYSTEM



*XTDEKT1 Xtrasun DE Lighting System*

# INSTRUCTIONS

## OVERVIEW

Thank you for purchasing the XTRASUN DE Double-Ended 1000W Lighting System. This system is engineered to provide direct, focused light over the growing area.

**⚠ WARNING: FAILURE TO FOLLOW OUR GUIDELINES COULD RESULT IN ELECTRICAL SHOCK.**  
Do not touch, move, spray, or clean your light fixture when it is plugged in. Allow it to cool down before handling. Recommended mounting clearance for your fixture is 8"-12" on all sides. Do not mount directly to any surface. Make sure to disconnect the power when changing the lamp.

## LAMP INSTALLATION

1. Open both lamp holders by sliding them outwards and away from the center of the fixture, as shown in PHOTO A.

**⚠ Do not apply excessive force when installing lamp.**

**NOTE:** The bulb must be oriented so that the high voltage wire end/lead (the end near the getter, which is the small square tab attached to the wire loop) is installed in the socket end closest to the ballast as seen in **DIAGRAM A**.

2. Also be sure that the bulb is oriented so that the burner filament (the long wire that runs along the full length of the arc tube) is positioned upward, facing the top inside surface of the reflector.
3. Ensure that the wire ends/leads are not bent or frayed, as this will prevent proper installation. Begin by installing the double-ended lamp within the lamp holders shown in PHOTOS A, B & C.
4. The wire ends/leads must be fully seated as shown (PHOTOS D & E) before sliding each socket end closed.
5. After sliding the socket ends closed, be certain that there is no gap between the edge of the sliding section and the part it meets at the end of the slide path. Once lamp is positioned correctly, slide the lamp holder inward toward the center of the bulb to secure and lock the lamp in place as shown in PHOTOS F & G.

**DIAGRAM A**

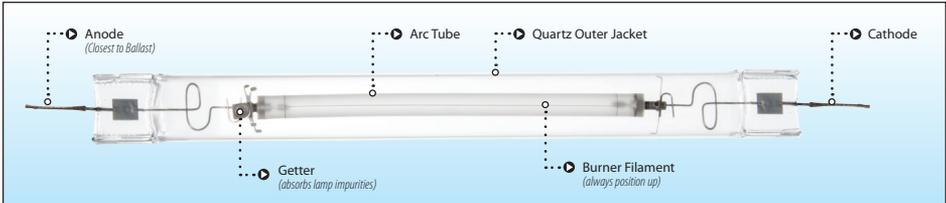


PHOTO A

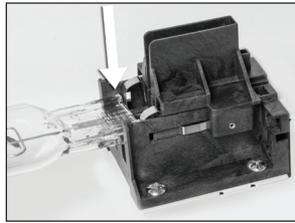


PHOTO B

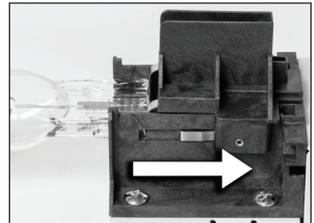


PHOTO C

# INSTRUCTIONS

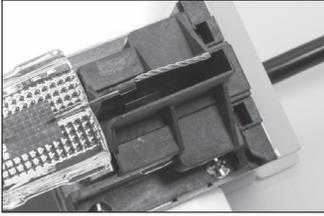


PHOTO D

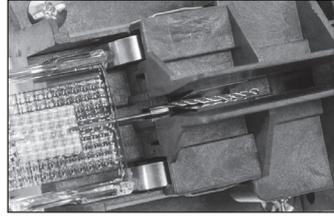


PHOTO E

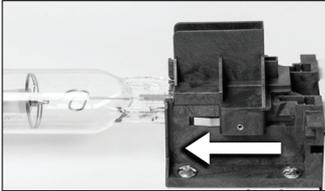


PHOTO F

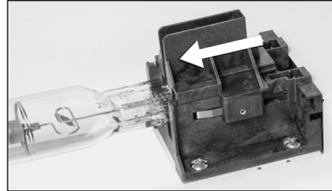


PHOTO G

**PLEASE NOTE:** Do not force the lamp holders closed. This could cause damage to both the lamp and lamp holders. Do not handle lamp with bare hands. Always wear surgical or cloth gloves whenever possible when handling lamp to minimize fingerprints and oils left on the lamp. If the lamp needs cleaning after installation, use a soft dry cotton cloth to wipe off fingerprints/skin oils.

## HANGING YOUR FIXTURE

1. Make sure your unit is unplugged.
2. Hang the fixture from a strong cord or chain from both ends. Make sure you have hooks solidly screwed into the studs in the ceiling. If you cannot locate the studs, insert expansion anchors into the ceiling. The hooks should be rated to hold at least 50 lbs each.

## TIPS

- The lamp may require 10-30 minutes cooling time before restarting.
- After you plug the reflector in, the bulb may require several minutes to reach its full brightness. In the event of a momentary power interruption, the bulb will not restart immediately.
- Some variation in the color of light emitted by the bulb is not unusual, especially in the first 100 hours of operation.
- Never pull the cord to unplug the reflector, pull the plug only.
- Avoid scratching the bulb, subjecting it to undue pressure, or getting it wet when it is hot; these actions may cause the bulb to break.
- In the event of bulb breakage, immediately unplug the reflector to prevent exposure to ultraviolet energy, which may be harmful to eyes and skin.
- Keep room temperature below 95°F, with adequate air circulation by fan in the growing area.
- The DE lamp produces very high-intensity light and was originally designed for commercial growing operations. Please take care to consider proximity to plants when installing your fixture. You may want to allow more vertical space between the plant canopy and the fixture to mitigate the high-intensity light and heat in the plant area.
- Always use a heavy-duty 3-pronged grounded timer, rated for at least 15 amps. Many 7-day digital timers are not rated for 1000W lamps. Unplug ballast when changing or removing the lamp. Failure to do so can cause ballast failure or improper diagnosis.

# INSTRUCTIONS

## TROUBLESHOOTING USING THE BALLAST'S STATUS LED

The multi-color status LED provides information on the status of the ballast with respect to its connection to a controller and its general operating condition, and also gives error and warning signals. Consult the tables at right to interpret the status LED.

- All operating codes are represented by GREEN signals.
- All warning codes are represented by RED signals.
- All history codes (except the ignition code) are represented by YELLOW signals.
- BLACK dots in the diagrams represent the unlit LED.
- Warning codes and history codes override operating mode display.

LED signals are represented by colored dots in the diagrams in the table. In the STATUS INDICATIONS table, the green dots do not represent individual flashes; instead they represent the duration that the LED is illuminated green. Each dot shown in both diagrams represents one half second (500 milliseconds). For example, the "Ballast on" signal is shown as a black dot and then four green dots. This indicates a dark (unlit) LED for one half second and then a long green flash lasting two seconds.

In the ERROR OR WARNINGS INDICATIONS table, the individual colored dots do represent individual flashes (black dots represent time that the LED is unlit between flashes). They also represent the relative time duration of signals (each dot still represents one half second). For example, the "Too high voltage" signal is shown as two red dots followed by two black dots. This indicates two red flashes of one half second each followed by one second of a dark (unlit) LED.



# INSTRUCTIONS

STATUS INDICATIONS			
LED Status Message	Fixture Status	Description	Action/Solution
●●●●●●●●●● No LED activity	No power/off	The fixture is not connected to the mains or the power is off	Check power
●●●●●●●●●● Short green flash with long off interval	Ballast stand-by (on EXT)	Fixture is connected to the mains and to a controller. Output of ballast is off	No action required
●●●●●●●●●● Long green flash with brief off interval	Ballast on (on EXT)	Fixture is connected to the mains and to a controller. Output of ballast is on	No action required
●●●●●●●●●● Solid green on with no off interval	Ballast on (Manual dim)	Fixture is connected to the mains and set to manual output	No action required
●●●●●●●●●● Rapid yellow flash	Fixture is igniting the lamp	Fixture is trying to restart the lamp	When lamp does not start: Lamp may be too hot, defect or not properly connected (remote). Disconnect, check power cord and connections
ERROR OR WARNING INDICATIONS			
●●●●●●●●●● One rapid red flash with long off interval	Too low voltage	Input voltage is too low Ballast power drops to 50% automatically	If used it with 120V input power accidentally, the ballast power will decrease to 50% of the set power automatically. Turn off the ballast and replace it with correct 240V input power. If the voltage is a bit lower than 240V, the LED will blink and the ballast keeps running with set wattage.
●●●●●●●●●● One rapid yellow flash with long off interval	Too low voltage occurred in past	Input voltage was too low in the past Ballast power drops to 50% automatically	See above, reset
●●●●●●●●●● Two rapid red flashes with medium-long off interval	Too high voltage	Input voltage is too high Ballast power drops to 50% automatically	Disconnect the ballast. Check input voltage, check wiring and connection, check neutral in 3 phase systems, then reconnect the ballast. LED on the ballast will blink but power will not change.
●●●●●●●●●● Two rapid yellow flashes with medium-long off interval	Too high voltage occurred in past	Input voltage was too high in the past Ballast power drops to 50% automatically	See above, reset
●●●●●●●●●● Three rapid red flashes with brief off interval	Too high temperature	Electronics temperature is too high (max. 115°C/239°F)	There is temperature sensor in the PCB of the ballast. If it senses the internal ballast temperature reaches 110°C, the LED will start to blink. The ballast power will decrease to 50% of the set power automatically. Users should turn off the ballast or cool down the ballast.
●●●●●●●●●● Three rapid yellow flashes with brief off interval	Too high temperature occurred in past	Electronics temperature was too high in the past (max. 115°C/239°F)	See above, reset
●●●●●●●●●● One rapid red flash with prolonged off interval	No signal from controller (on EXT)	Fixture is connected to the mains and set to EXT but there is no signal on the control input.	If a controller is connected, search for loose connections, defective contacts or short-circuits. Re-connect the controller to the ballast or verify whether the controller is out of order..

● BLACK ● RED ● YELLOW ● GREEN

# KEY FEAT

*Vented design for optimum heat management and longer lamp life*



*German Vossloh-Schwabe K12 x 30s high temperature lamp holders*



*95% reflective European specular hammertone aluminum provides excellent light uniformity*



*Xtrasun 1000W DE HPS lamp*



# FEATURES

*Mounting plate*



*Built-in ballast and lamp protections*



*RJ-14 port for connection to compatible controllers*



*Diagnostic LED to indicate ballast and lamp status*



*Output control*



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# WARRANTY

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## LIMITED WARRANTY

Hydrofarm warrants the **XTDEKT1** to be free from defects in materials and workmanship. The warranty term is for 3 years (on the ballast components only) beginning on the date of purchase. Misuse, abuse, or failure to follow instructions is not covered under this warranty. Hydrofarm's warranty liability extends only to the replacement cost of the product. Hydrofarm will not be liable for any consequential, indirect, or incidental damages of any kind, including lost revenues, lost profits, or other losses in connection with the product. Some states do not allow limitation on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Hydrofarm will, at our discretion, repair or replace the **XTDEKT1** covered under this warranty if it is returned to the original place of purchase. To request warranty service, please return the **XTDEKT1**, with original sales receipt and original packaging, to your place of purchase. The purchase date is based on your original sales receipt.

## GARANTIE LIMITÉE

Hydrofarm garantit que le **XTDEKT1** ne présente aucun défaut de pièces et main-d'œuvre. La période de garantie est d'3 ans (seulement sur les composants pour ballasts) à partir de la date d'achat. Une utilisation incorrecte, abusive, ou le non-respect des instructions n'est pas couvert(e) par cette garantie. La responsabilité de la garantie Hydrofarm couvre uniquement le coût de remplacement du produit. Hydrofarm ne pourra être tenu responsable des dommages consécutifs, indirects ou fortuits de tout type, y compris les pertes de revenus, de profits ou autres en rapport avec le produit. Certains états n'autorisent aucune limite concernant la durée de la garantie implicite ou l'exclusion des dommages fortuits ou consécutifs ; les limites ou exclusions mentionnées ci-dessus peuvent donc ne pas être applicables à votre cas. Hydrofarm se réserve le droit de réparer ou remplacer le **XTDEKT1** couvert par cette garantie si celui-ci est renvoyé au lieu d'achat d'origine. Pour solliciter le service de garantie, veuillez renvoyer le **XTDEKT1** avec sa facture et son emballage d'origine à votre lieu d'achat. La date d'achat est indiquée sur votre facture originale.

## GARANTÍA LIMITADA

Hydrofarm garantiza que el **XTDEKT1** no presentará defectos de fabricación. La garantía tendrá una duración de 3 años (solo en componetes para balastos) desde la fecha de compra. En caso de no respetarse estas instrucciones o de un uso inadecuado del producto, la garantía no cubrirá los posibles daños. La cobertura de la garantía ofrecida por Hydrofarm únicamente incluye los costes de sustitución del producto. Hydrofarm no será responsable de ningún daño indirecto, accidental o derivado de ningún tipo, incluyendo pérdidas de ingresos o beneficios, o cualquier otra pérdida relacionada con el producto. En algunos estados no se permiten limitaciones sobre la duración de una garantía implícita o la exclusión de los daños accidentales o derivados; en cuyo caso las limitaciones y exclusiones anteriores no serán de aplicación. Hydrofarm, a su discreción, podrá reparar o sustituir el **XTDEKT1** cubierto por esta garantía siempre que se devuelva al lugar original de compra. Para reclamar la garantía, devuelva el **XTDEKT1** con el ticket de compra y el embalaje original al lugar de compra. La fecha de compra será la indicada en el ticket original.

*XTDEKT1 Xtrasun DE Lighting System Instructions revised - August 26, 2016 12:28 PM*