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> VIVOSUN AeroLight Wing AW400SE LED Grow Light Instruction Manual

## VIVOSUN VSAW400SE

# VIVOSUN AeroLight Wing AW400SE LED Grow Light

Model: VSAW400SE

Integrated Circulation Fan, App Compatible

## INTRODUCTION

The VIVOSUN AeroLight Wing AW400SE is an advanced LED grow light system designed to provide optimal lighting and air circulation for indoor plant cultivation. Featuring an integrated fan and full-spectrum LEDs, this system promotes healthy plant growth from germination to harvest. It is compatible with VIVOSUN GrowHub Controllers (E42, E42A, or E25) for smart control and automated environmental management.



*Image: The VIVOSUN AeroLight Wing AW400SE, highlighting its unique design with an integrated circulatory fan.*

## KEY FEATURES

- **Integrated Circulation Fan:** Optimizes airflow and enhances direct air entry into the canopy, balancing temperature and humidity. Requires Vivosun Growhub Controller for full features.
- **Full-Spectrum Sun-like Lighting:** Delivers optimal light (390nm-730nm, 3000K, 5000K) including 660nm deep red, 730nm far red, and 395nm UVA for maximized PAR output, improving germination, growth, blooming, and yields.
- **Smart Control and Programming:** Seamless integration with Vivosun GrowHub Controller and app for automated and customizable day/night schedules. (Controller sold separately)
- **Uniform Light and Air:** Hollow light design and special air-guiding angles direct wind uniformly across the plant canopy. Foldable design with two angle-adjustable wings offers versatile light distribution.
- **Low Noise and Ultra-Durable:** Industrial-grade fans with dual ball bearings ensure quiet operation. Unique design enhances heat dissipation and extends lifespan to over 50,000 hours.

## Scalable Daisy Chain

- Connect up to 6 AW400SE with E25.
- Connect up to 12 AW400SE with E42/E42A.



Image: Key advantages of the AeroLight Wing, including its 2-in-1 light and fan combo, optimized full-spectrum lighting, and smart control capabilities.

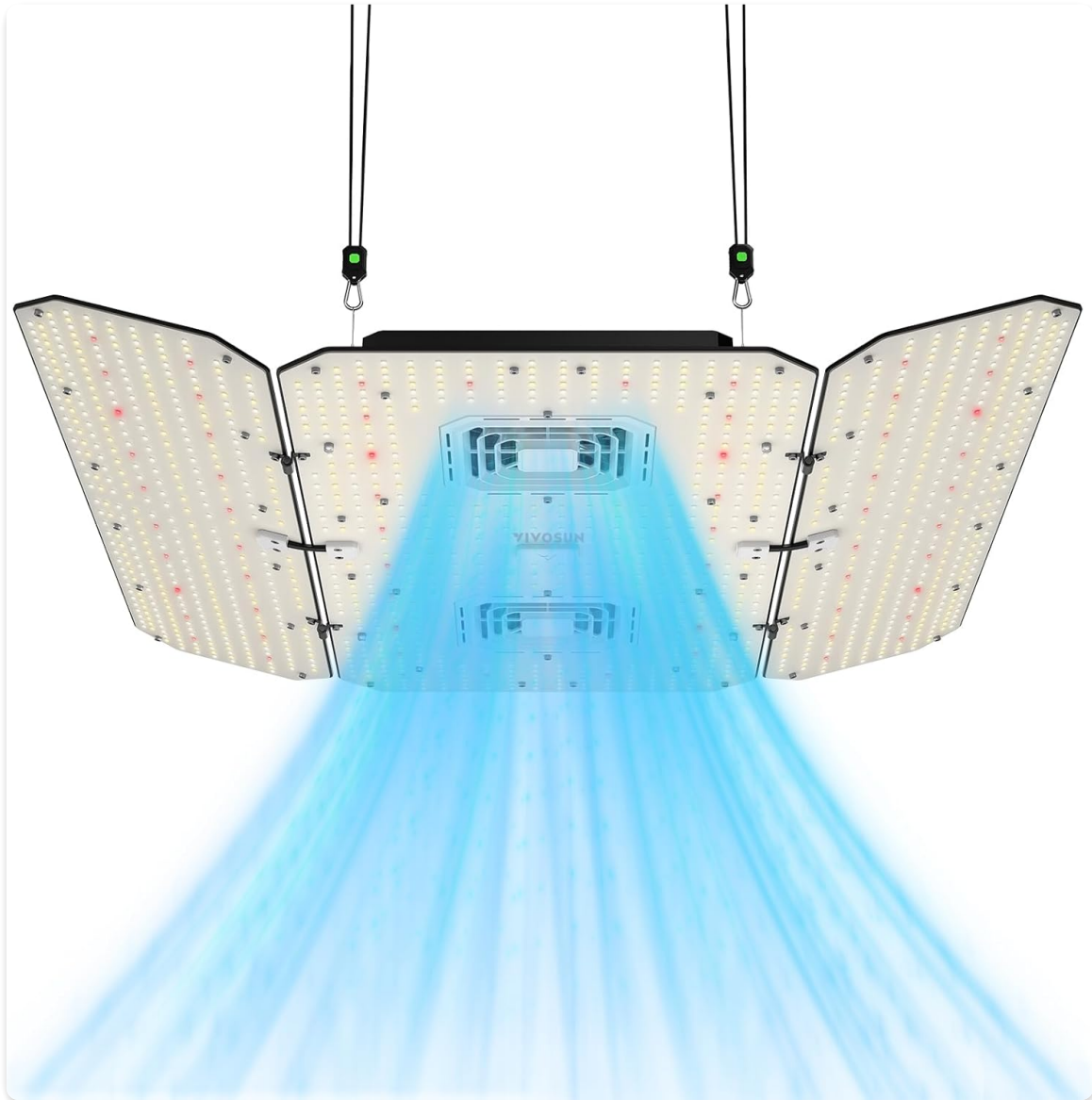
## SETUP GUIDE

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### 1. Unboxing and Component Check

Carefully remove all components from the packaging. Verify that all parts are present:

- VIVOSUN AeroLight Wing AW400SE unit
- Hanging cables and carabiners
- Power cord
- RJ45 Network Cable (for controller connection)



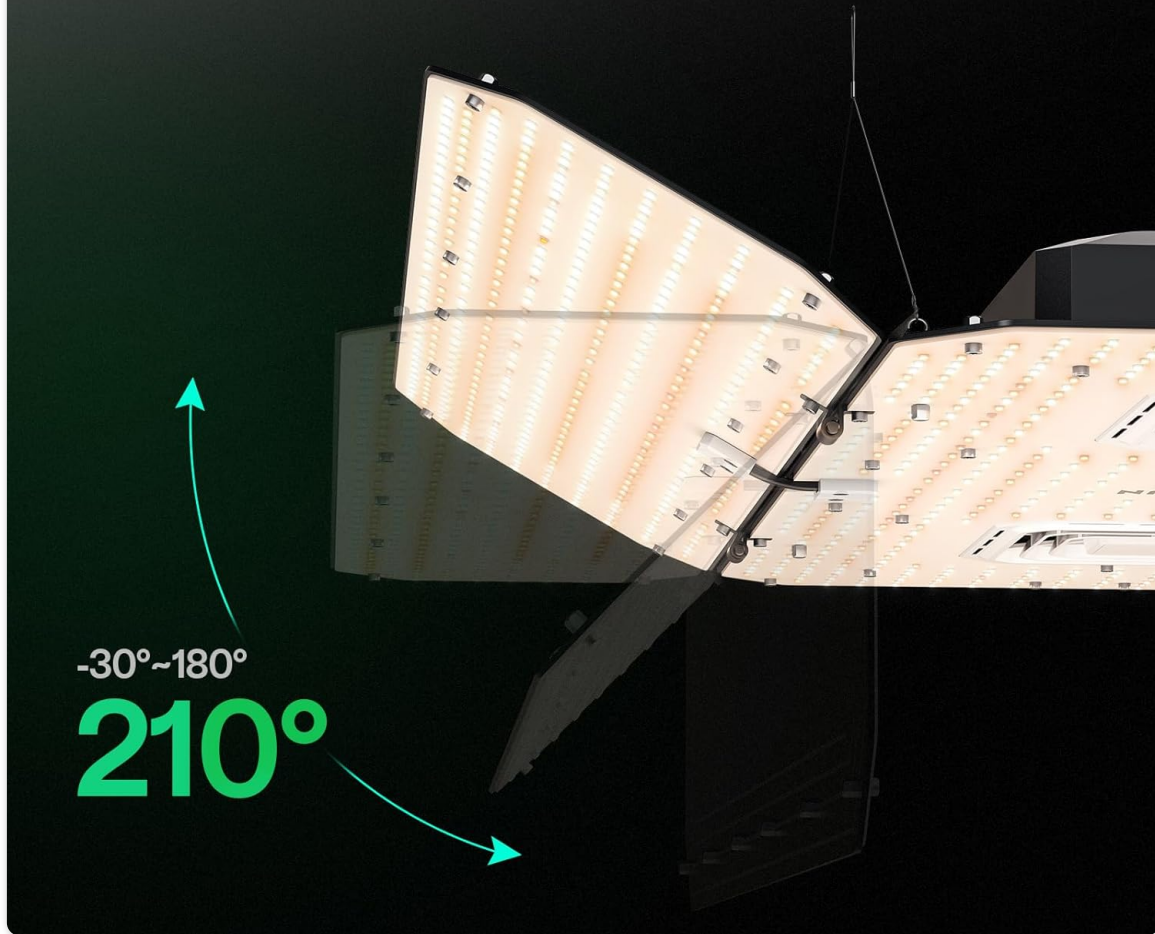
*Image: The AeroLight Wing AW400SE as it appears when unboxed, showing the main unit and included accessories.*

### 2. Mounting the Grow Light

Attach the hanging cables to the designated points on the grow light unit. Use the carabiners to securely hang the light from a sturdy support structure within your grow tent or area. Ensure the light is level and positioned at the desired height above your plants. The foldable wings can be adjusted to optimize light coverage.

# Customizable Light Distribution

Adjustable wings let you optimize coverage or intensity with ease.



*Image: The AeroLight Wing with its adjustable wings, demonstrating the 210-degree range for customizable light distribution.*

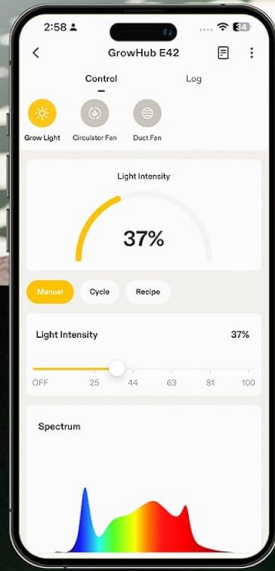
### 3. Power Connection

Connect the provided power cord to the light unit and then plug it into a standard electrical outlet. Ensure the outlet meets the voltage requirements (AC 120-240 V, 50/60 Hz).

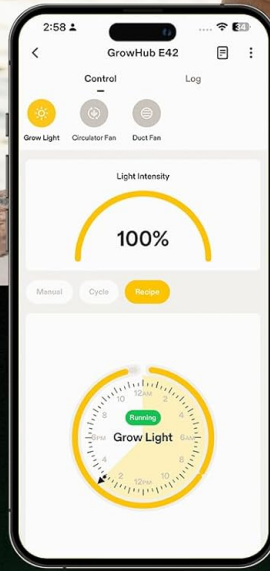
### 4. Connecting to GrowHub Controller (Optional, Recommended)

For smart control and advanced features, connect the AeroLight Wing to a VIVOSUN GrowHub Controller (E42, E42A, or E25, sold separately) using the RJ45 network cable. Follow the GrowHub Controller's instructions for pairing with the VIVOSUN app.

# Garden in Your Pocket



Anytime, Anywhere



Easy Grow



Grow Recipes

Image: The VIVOSUN GrowHub app interface, showing control options for light intensity, fan speed, and environmental monitoring.

## OPERATING INSTRUCTIONS

### Light and Fan Control

The AeroLight Wing can operate by simply plugging it in, providing full light output. For precise control over light intensity (dimming 25-100% OFF) and fan speed, use a compatible VIVOSUN GrowHub Controller and the VIVOSUN app. The app allows you to:

- Adjust light intensity manually.
- Control the integrated circulation fan speed.
- Set automated day/night schedules.
- Monitor environmental data such as temperature and humidity.



Image: The VIVOSUN GrowHub app allows users to monitor and control their grow setup from anywhere, access data logs, and utilize pre-programmed 'Grow Recipes'.

## Optimal Light Coverage and Growing Tips

The hollow light design and adjustable wings ensure uniform light and air distribution. Refer to the following guidelines for optimal plant growth in a 4' x 4' grow tent:

# Specifications

Model: **AeroLight Wing AW400SE**

<b>Rated Power:</b> 400 W	<b>Efficiency:</b> 2.75 $\mu\text{mol}/\text{J}$	<b>Motor:</b> EC-Motor
<b>Coverage:</b> 4 x 4 ft	<b>Dimming:</b> 25-100% OFF	<b>Fan Bearing:</b> Dual Ball
<b>Lifetime:</b> >50,000 h	<b>Spectrum:</b> Full Spectrum	<b>Airflow:</b> 168 CFM
<b>Input Voltage:</b> AC 120-240 V, 50/60 Hz		<b>Noise:</b> 66 dBA

**RJ45 Network Cable:** 10 ft (3 m)

**Power Cord Length:** 6 ft (1.8 m)

The controller is available separately and is compatible with E25/E42A models.

Image: Table providing recommended light distance, dimming percentage, and light cycle duration for different plant growth stages (Seedling, Veg, Early Flower, Late Flower) in a 4'x4' grow tent.

# Optimal Light Coverage

Dense and uniform PPFD ensures even light coverage and deeper penetration, promoting strong growth and higher yields.

12" Height

893	1127	1186	1119	888
1137	1463	1547	1457	1131
1198	1546	1636	1542	1193
1144	1471	1560	1470	1139
904	1138	1207	1141	901

4 ft (120 cm)

4 ft (120 cm)

18" Height

788	912	950	905	781
916	1081	1133	1075	910
956	1138	1194	1134	954
916	1081	1135	1079	911
792	916	960	916	789

4 ft (120 cm)

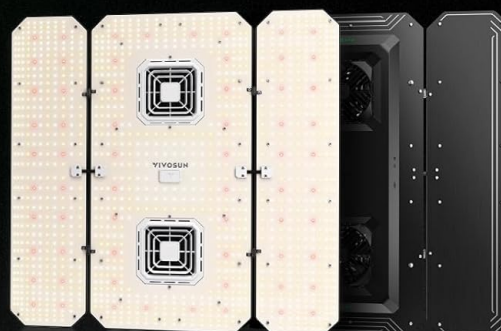
4 ft (120 cm)

24" Height

714	778	801	774	706
781	863	892	859	774
807	895	927	893	800
783	865	896	865	778
715	780	806	781	712

4 ft (120 cm)

4 ft (120 cm)



\* Results derived from testing in Vivosun's 4x4 Grow Tent

\* This map includes Far Red & UV spectrum (380nm-780nm)

Image: PPFd (Photosynthetic Photon Flux Density) maps illustrating optimal light coverage at 12", 18", and 24" heights within a 4'x4' grow tent, ensuring even light distribution and deeper penetration.

## MAINTENANCE

To ensure the longevity and optimal performance of your VIVOSUN AeroLight Wing AW400SE, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically wipe down the light panels and fan grill with a soft, dry cloth to remove dust and debris. Ensure the unit is unplugged before cleaning.
- **Fan Inspection:** Check the integrated fan for any obstructions or unusual noises. Keep the fan area clear to maintain efficient air circulation and heat dissipation.
- **Cable Management:** Ensure all power and network cables are neatly organized and free from kinks or damage to prevent electrical issues.
- **Environmental Control:** Maintain appropriate temperature and humidity levels in your grow area to prevent excessive strain on the light and fan components.

## TROUBLESHOOTING

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### Light Not Turning On

- Check if the power cord is securely plugged into both the light unit and the electrical outlet.
- Verify that the electrical outlet is functional by testing it with another device.
- If using a GrowHub Controller, ensure it is powered on and properly connected.

### Fan Not Operating or Making Unusual Noise

- Ensure the light is powered on. The fan operates in conjunction with the light.
- If connected to a GrowHub Controller, check the fan speed settings in the VIVOSUN app.
- Inspect the fan for any physical obstructions (e.g., dust buildup, debris) and carefully remove them if present.
- If the fan is making unusual noises, it may indicate a mechanical issue. Contact VIVOSUN customer support for assistance.

### App Connectivity Issues

- Ensure your GrowHub Controller is properly connected to your Wi-Fi network.
- Verify that the RJ45 network cable is securely connected between the light and the GrowHub Controller.
- Restart both the GrowHub Controller and your smartphone/tablet.
- Ensure your VIVOSUN app is updated to the latest version.

## SPECIFICATIONS


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Attribute	Detail
Model	VSAW400SE
Rated Power	400 W
Coverage	4 x 4 ft
Lifespan	>50,000 hours
Input Voltage	AC 120-240 V, 50/60 Hz
Efficiency	2.75 $\mu\text{mol/J}$
Dimming	25-100% OFF
Spectrum	Full Spectrum
Fan Motor	EC-Motor

Fan Bearing	Dual Ball
Airflow	168 CFM
Noise	66 dBA
Product Dimensions	26.4"L x 2.2"W x 16"H
Item Weight	17.56 pounds

## Why AeroLight ?

**VIVOSUN AeroLight**



- ✓ Light & Fan Combo (2-in-1)
- ✓ 2.7  $\mu\text{mol}/\text{J}$  Efficiency
- ✓ Optimized Full-Spectrum Lighting
- ✓ Red, Blue, Far Red & UVA
- ✓ Supports All Growth Stages
- ✓ Pre-Installed Hanging Hook
- ✓ Natural Wind Mode for Air Circulation
- ✓ Smart Control via VIVOSUN App
- ✓ Award-Winning Design

**Others**



- ✗ Light Only
- ✗ 1.9–2.3  $\mu\text{mol}/\text{J}$  Efficiency
- ✗ Fixed Spectrum
- ✗ No Blue or UVA
- ✗ Limited to Short Growth Cycles
- ✗ Basic Hanging Chains
- ✗ No Air Circulation
- ✗ No App Control
- ✗ No Awards

*Image: Detailed specifications and dimensions for the VIVOSUN AeroLight Wing AW400SE.*

## WARRANTY AND SUPPORT

VIVOSUN products are designed for durability and performance. For specific warranty information and customer support, please refer to the warranty card included with your product or visit the official VIVOSUN website. You can also contact VIVOSUN customer service for any technical assistance or inquiries regarding your AeroLight Wing AW400SE.

Note: No official seller videos were available for direct embedding in this manual.

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For more information, visit [VIVOSUN Store on Amazon](#)