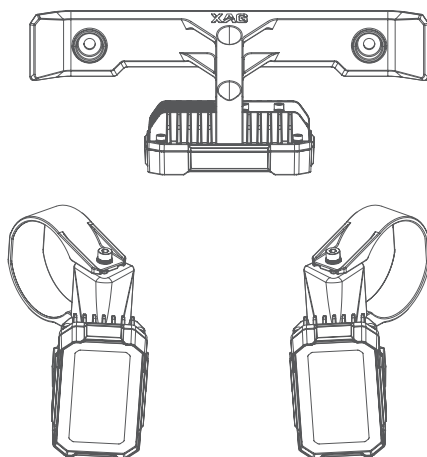


XAG 90W LED Headlight

User Manual

Version 1.0 **EN**



To User

Dear user, thank you for choosing XAG's products.

For safety purposes and better user experience, it is highly recommended that you read this manual carefully and strictly follow the instructions hereof.

Contact Us

Manufacturer: Guangzhou Xaircraft Technology Co., Ltd.

Add: Building 1, No. 9 Xinrui Road, Huangpu District, Guangzhou, P.R.China

Technical Support Team: support@xa.com

Safety Guidelines

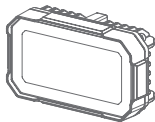
- The XAG 90W LED Headlight is only compatible with P150 Max agricultural drone. Do not use it on other products or for any non-agricultural purposes.
- Please strictly follow this User Manual for the installation, usage, and maintenance of the product.
- Before installing the headlight, ensure the drone is fully powered off. Do not power on the drone until installation is fully complete to avoid product damage.
- The product can only be activated when the drone's flight controller is functioning properly.
- The product weighs approximately 1 kg. For safety, reduce the drone's maximum payload by 1 kg when in use.
- Attention: To prevent damage to the headlight, do not activate it before the drone starts operation.
- When using the headlight, pay attention to your surroundings and avoid direct eye contact with the light. Do not aim it at your own or others' eyes to prevent discomfort or injury from the intense light.
- Exercise caution during use. Do not touch the operating headlight to avoid burns.
- Do not use this product in adverse weather conditions such as rain, snow, fog, thunderstorms, hail, dust storms, or strong winds, or in environments with strong magnetic interference. Doing so may impair performance or lead to safety hazards.
- When not in use, thoroughly clean and inspect the product to ensure it is in good condition, then store it in a dry, cool, and secure place.
- Do not modify, alter, or assemble this product with non-genuine or incompatible components, or use it for unintended purposes, as this may result in an incident. Product failure or damage arising from such misuse is not covered under the warranty. Any resulting damages or liabilities are the sole responsibility of the user.
- Do not use non-genuine XAG parts for maintenance or operation of this product. Doing so may compromise its safety and lifespan. Damage arising therefrom is not covered under warranty.

Introduction

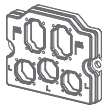
XAG 90W LED Headlight (hereinafter referred to as "headlight") features a 60W front light and a 30W rear light, delivering clear image transmission within 25 meters during night operations to enhance safety. The atomized spray is clearly visible, ensuring full control over nighttime performance.

List of Items

When unboxing, check the package contents against this list. Immediately contact your seller regarding any missing items.



Headlight
X 3



Distribution Board
X 1



Front Clamp
X 2



Front Light Mount
X 2



Rear Light Mount
X 1



Front Light Power Cable
X 2



Rear Light Power Cable
X 1



Distribution Board Power Cable
X 1



Payload System Power Cable
X 1

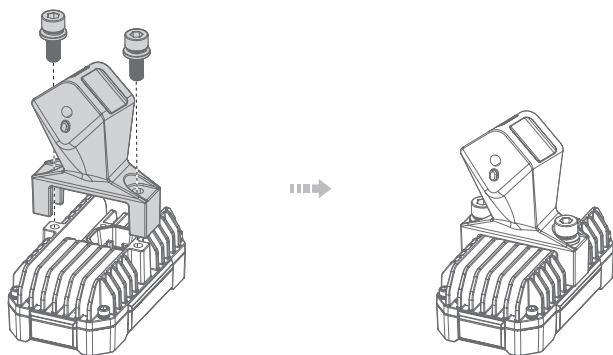


Screw Kit
×1

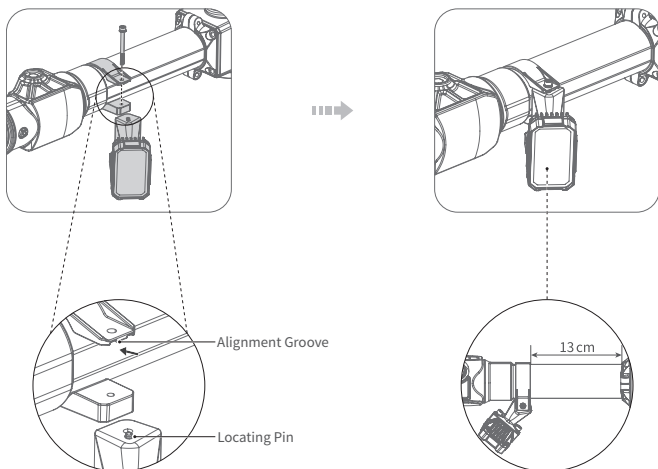
Installation

Install Front Light

- ① Secure the front light mount to the light to assemble the front light assembly. (the illustration shows the installation of the front light on Arm 1 as an example).



- ② Align the locating pin of the front light assembly with the alignment groove of the front clamp, then secure the assembly onto Arm 1 using M4*45 screws to complete the installation.
- ③ Repeat the above steps to complete the installation on Arm 2.

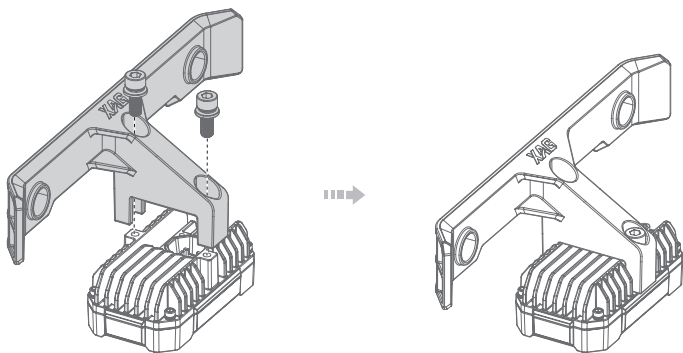


Note

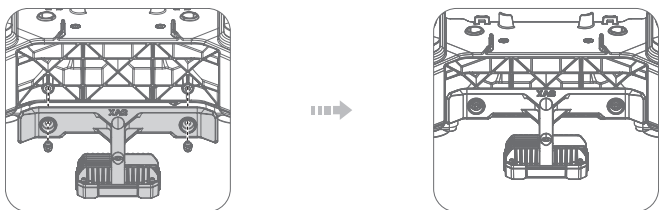
- ⚠ To ensure smooth installation of the power cable, it is recommended to mount the front light assembly at a position approximately 13 cm from the fuselage along the arm.

Install Rear Light

① Secure the rear light mount to the light to assemble the rear light assembly.

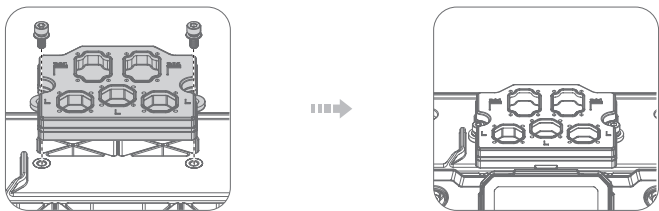


② Use M5*14 screws to secure the rear light assembly to the tail frame, completing the installation of the rear light.



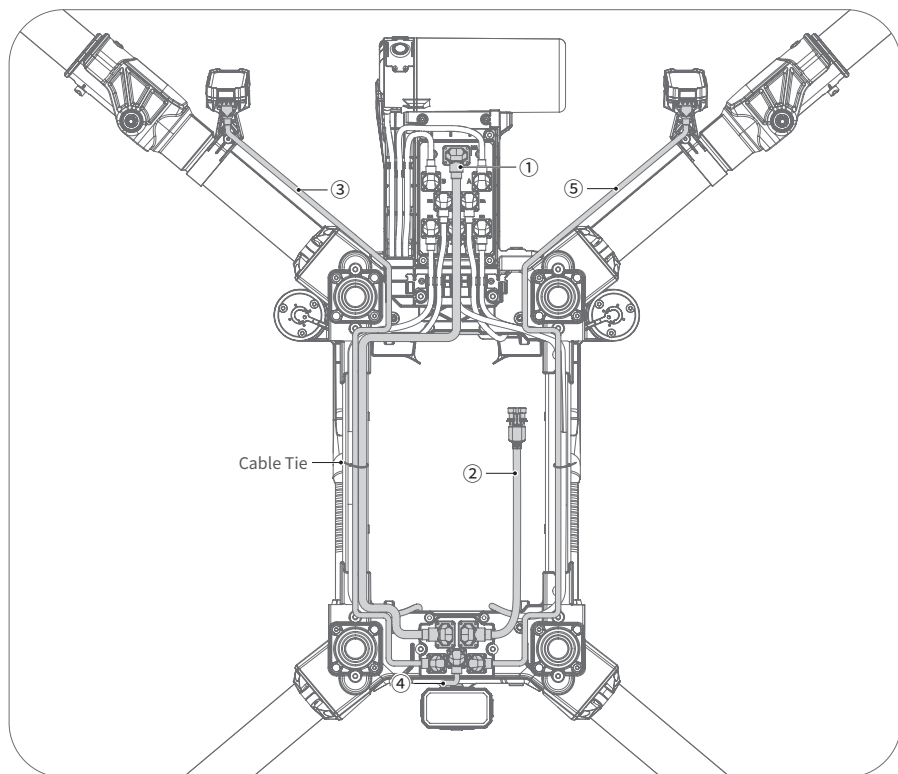
Install Distribution Board

After separating the payload system from the drone, use M5*14 screws to secure the distribution board to the tail.



Wiring

Remove the 301 cable from the nose cable hub. Refer to the figure below to complete the wiring, and use cable ties to secure the cables. After wiring is completed, reinstall it to the drone to complete the installation of light.



① Distribution Board Power Cable

④ Rear Light Power Cable

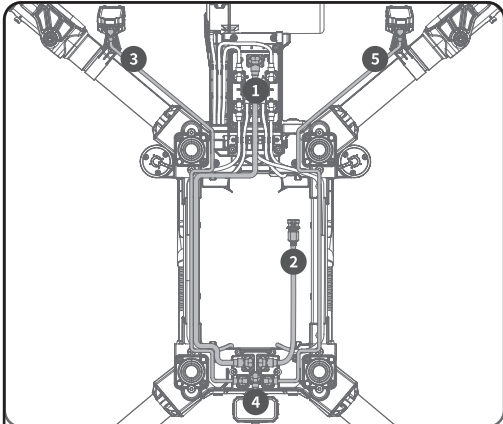
② Payload System Power Cable

⑤ Front Light Power Cable (Arm 2)

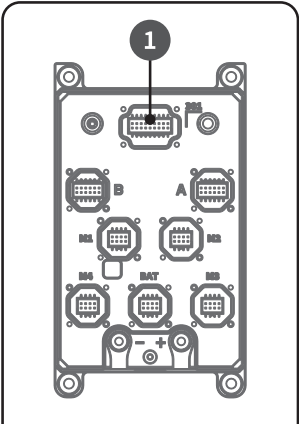
③ Front Light Power Cable (Arm 1)

Wiring Guide

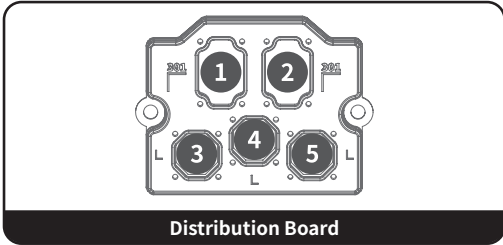
Complete the wiring as shown in the figure below.



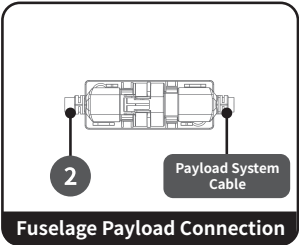
Wiring Overview



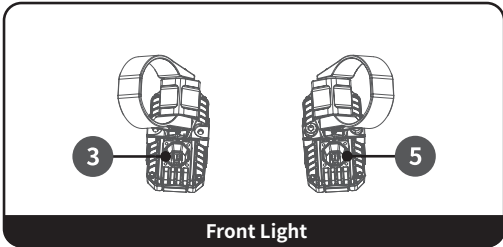
Nose Cable Hub



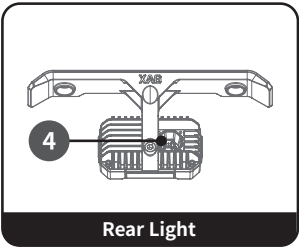
Distribution Board



Fuselage Payload Connection



Front Light



Rear Light

- 1

Distribution Board Power Cable
- 2

Payload System Power Cable
- 3

Front Light Power Cable (Arm 1)
- 4

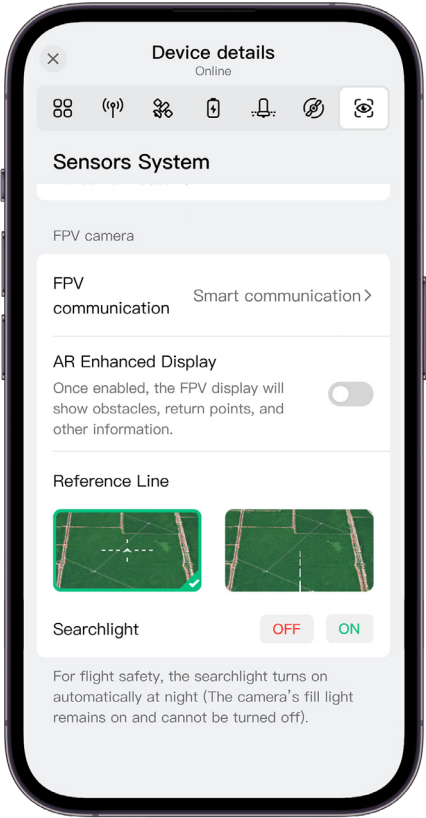
Rear Light Power Cable
- 5

Front Light Power Cable (Arm 2)

How to Use

The light can be configured to turn on automatically via XAG One, and can also be manually turned on or off.

1. Open "XAG One" and tap "Me" - "Device", then select the drone to enter Device Details screen.
2. Tap "🔍" to enter the Sensor System screen.
3. On the Sensor System screen, scroll down to the bottom of the screen and tap "On/Off" to switch the headlight on or off.



Maintenance

The light lens of the drone may be affected by droplets during operation. Please clean the light lens before and after each operation. Follow the steps below for cleaning:

Detergent: soapy water or laundry powder/water mixture

- ① Wring out a cloth soaked in soapy water or laundry powder/water mixture, then wipe the light assembly and lens surface to remove chemical residues and dirt.
- ② Use a clean, dry cloth to wipe the light assembly and lens surface again to complete the cleaning process.

Specifications

Product Name	XAG 90W LED Headlight
Light Source	LED
Dimensions	79.2 × 46.2 × 28.8 mm (per light)
Weight	0.9 kg
Input Voltage/Current	52.5 V/1.7 A
Rated Power	90 W
Operating Temperature	-10 °C to 50 °C
Storage Temperature	-10 °C to 60 °C
IP Rating	IP65
Compatibility	XAG P150 Max Agricultural Drone

Compliance Information

FCC Compliance Notice

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Brand name / model number: XAG 90W LED Headlight

Suppliers Name(FCC): Pegasus Spray Inc

Suppliers Address (FCC): 2265 116th Ave NE, Suite 110, Bellevue, WA 98004, United States

Suppliers Email Address: arthur@pegasusrobotic.com

EU Compliance Statement

“Hereby, [Guangzhou Xaircraft Technology CO.,LTD.], declares that this [XAG 90W LED Headlight] is in compliance with the essential requirements and other relevant provisions of 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

www.xa.com/en/service/downloads”

Brand name / model number: XAG 90W LED Headlight

Suppliers Name(EU): NIK ELECTRONICS LTD

Suppliers Address (EU) : Sofia, 11B Brussels Blvd., fl.13

Suppliers phone number and / or internet contact information: 00359899952228



KCC Warning Message

이 기기는 업무용 환경에서 사용할 목적으로 적합성 평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파 간섭의 우려가 있습니다 .

Disclaimer

1. Please read this Disclaimer carefully before using this product, as it has much to do with both operational safety and your legitimate rights and interests. You shall be deemed to have read, known, understood, agreed to, and accepted all the terms and conditions as well as information stated herein upon the use of this product.
2. Not being a toy and with certain safety risks, this product is not suitable for those who are under 16 years old, those who have limited or no capacity for civil conduct, or those with mobility impairments as stipulated by law.
3. This product is an optional kit designed specifically for the XAG P150 Max Agricultural Drone and is intended solely for agricultural plant protection applications. Before using this product, please carefully read the User Manual to understand your legal interests, rights, responsibilities, and relevant safety instructions. Failure to do so may result in property loss, accidents, or personal injury.
4. This product is intended for use with XAG agricultural drones. You must obtain the appropriate operator certification required by law for operating conventional agricultural unmanned aerial vehicles. Extra caution must be taken when operating this product in areas where children, crowds, or animals are present.
5. You undertake to use the product within the bounds of the law for legitimate purposes only and agree to the terms and conditions stated herein as well as potential related policies and norms formulated by XAG. You understand and accept that flight records and data created during use will be uploaded and saved to XAG's server. XAG shall resume no responsibility for the failure to analyze such flight records and data caused by the unsuccessful saving for any reason attributable to the user.
6. To the maximum extent permitted by law, under no circumstances shall XAG offer an implicit or explicit guarantee for this product, including but not limited to implicit guarantees pertaining to vendibility, fitness for a particular use, or non-infringement.
7. Please install, use, transport, and maintain the product under the instructions in this User Manual. Do NOT modify or disassemble this product on your own as any malfunction or damage arising therefrom or resulting from your improper use will not be covered by the warranty, and you shall solely assume the liability arising therefrom, both financially and legally.
8. To the maximum extent permitted by law, XAG shall not be liable for any loss caused by your use of this product outside the instructions in this User Manual. Furthermore, XAG shall not be liable for any indirect, consequential, punitive, accidental, special or exemplary damage, including any loss incurred as a result of your purchase, use, or inability to use the product, even if you have been advised of the possibility of such loss.
9. You understand that in the use of any products, accidents may occur as a result of a single or combined factors, including but not limited to improper operation, surroundings and communication networks. You understand that the aforesaid accidents are reasonable and acceptable in the use of the product, and that XAG shall not be held accountable for such accidents.
10. On any account, purchasers or users shall comply with the laws and regulations of the country and region where the product is used. XAG shall assume no liability arising from the violation of the aforementioned laws and regulations by the purchaser or user.

11. Please note that the use of this product on agricultural drones might involve the laws and regulations in connection with the collection, storage as well as processing of the geographic information and data of farmland. Before using this product, be sure to comply with local laws and regulations related to the collection, storage, or processing of such geographic information and data. Make sure that you use this product in accordance with the law. Any financial and legal liability arising from user's violations of the laws and regulations shall be borne solely by the user.
12. As exclusion clauses may be prohibited by certain laws and regulations, your rights may vary. However, this does not imply that certain or all terms contained in this Disclaimer are necessarily invalid. For any reason that partial terms stated herein are deemed void, other terms shall remain in effect.
13. To the extent permitted by law, XAG reserves the right for final explanation and revision of the terms and conditions stated hereinabove. XAG also has the right to update, modify or terminate these terms and conditions via its official website, User Manual, online apps, etc., without prior notice.

Warning

Before using this product, user is required to read through the User Manual and hold the appropriate operator certification required for operating conventional agricultural unmanned aerial vehicles. Operating the agricultural drone or its peripherals without the required certification, or improper operation, may cause injury to the user or others, or cause damage to the product and property loss. Any financial or legal liability arising from such actions shall be borne by the user. Safety awareness is of great importance during operation. Please install, maintain, and use the product in strict accordance with the User Manual and applicable laws.



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