



# FireFly Cordless Headlight

*Manual*



## Introduction

Thank you for choosing Xpedent's medical wireless headlamp series, characterised by its lightweight and portable features.

Using a wireless headlamp provides mobility and allows unrestricted movement.

**Intended Use:** To provide the necessary illumination for clinical examinations.

### **Advantages of the Headlamp:**

- **Wireless:** Provides freedom of movement, improving comfort and efficiency.
- **Lightweight:** Lightweight design with a shifted center of gravity, ergonomically designed for a better user experience.
- **Easy Operation:** Touch switch design allows the headlamp to be turned on or off with a simple touch.
- **Quick Battery Replacement:** The battery connects to the headlamp via a magnetic connector.
- **Anti-error Design:** The magnetic connector prevents incorrect polarity connections between the battery and the headlamp or charging base, ensuring successful connection only when the magnets attract.
- **Compatibility:** Can be installed on most loupe models.

## Cordless Headlight Accessories

1. Headlamp main unit
2. FireFly battery
3. Charging base
4. Orange filter (combination)
5. AC-DC USB adapter
6. USB to TYPE-C cable
7. 1.5# Allen key



(Figure1)

## Usage Instructions:

1. The orange filter is installed at the front of the Cordless Headlight using a custom structural component, as shown in the diagram.

Note: Use the 1.5# Allen key to secure the orange filter (composite material).



(Figure 2)

2. Connect the medical wireless headlamp to the eyeglass frame using a custom adapter, as shown in the diagram. Custom adapters can be made to fit different eyeglass frames.



(Figure 3)

3. Place the battery pack onto the magnetic connector. The battery pack must be oriented correctly. The magnetic connector will align the battery pack with the Cordless Headlight.



(Figure4)

4. Once the batterypack is aligned, the Cordless Headlight is ready for use.



(Figure5)

5. Adjust the angle of the Cordless Headlight to ensure the light beam is within the working field of view.



(Figure6)

## Wireless Headlamp

The headlamp can be adjusted up and down. (Figure 7)

The battery pack connects to the wireless headlamp via magnetic male and female connectors. (Figure 8)

Using the headlamp adapter, the Cordless Headlight can be mounted on the eyeglass frame.



(Figure7)



(Figure8)

## Battery Pack

Each Cordless Headlight kit includes three battery pack units and one charging base.

The battery pack controls the light source's power. This function is managed by touching the central top area of the battery pack.

There are three different light intensity options, controlled by touching the central top area of the battery pack:



(Figure9)  
touching area



(Figure10)

- *Touch once for the brightest setting.*
- *Touch twice for medium brightness.*
- *Touch three times for the lowest brightness.*
- *Touch four times to turn off the power.*

### Note:

The battery pack supports a constant light intensity level throughout the entire discharge period.

Once the battery is fully discharged, the Cordless Headlight will turn off.

## Battery Charging

Use the USB-Type-C cable to connect one end to the charging base and the other end to the AC/DC adapter. Plug the AC/DC adapter into a wall socket. Place the battery packs on the charging base; it can charge two battery packs simultaneously



(Figure11)



When the indicator light is red, it means the battery is charging

(Figure12a)



When the indicator light is green, it means the battery is fully charged

(Figure12b)

The average charging time for an empty battery is 1.5 hours. Once fully charged, the battery pack should be removed from the charging base and stored properly.



## **Safety Precautions**

1. Do not use any third-party chargers to charge the FireFly battery pack, even if they look identical. Third-party chargers may be incompatible with the battery pack's power requirements and could cause damage.
2. Prevent the battery pack from overheating by avoiding direct sunlight or direct contact with heated surfaces.
3. Protect the battery pack from impacts, especially from sharp objects.
4. Do not use the battery pack near flammable or explosive materials, such as alcohol, methanol, acetone, etc.
5. Please note that any serious incidents should be reported to the local dealer, who will promptly inform the manufacturer.

## Troubleshooting

Issue Type	Solution
LED light source flickers or dims	Replace the battery, charge the battery
Battery not working	Contact the local dealer
LED light malfunction	Contact the local dealer
Battery overheats while charging	Contact the local dealer
Battery leakage	Contact the local dealer
Battery swelling	Contact the local dealer
Battery pack touch control not responding	Replace the battery pack; if the issue persists, contact the local dealer

## Technical Specifications

### AC/DC Adapter

Input Voltage	100 – 240 V AC
Output Voltage	5 V DC



















### Light Source

Illuminance	35,000 LX / 55,000LX
Colour Temperature	4,500-6,000K
Width	50 mm
Diameter	19mm
Weight	9g
LED Lamp Lifespan	50,000 hrs
Spot Diameter (at 350mm distance)	70mm
External Filter Weight	2g


### Charging Base

Length	62 mm
Width	58 mm
Height	12 mm
Charging Interface	Type-C

## Labels, Packing Logo Design

Symbol	Introductions	Symbol	Introductions
	CE Symbol		Authorised representative in the european community
	Manufacturer Name Address		Manufacture Date
	Batch Code		Store in clean & dry place protected from rain, snow, ice, salt and water.
	Warnings and Precautions		Non-sterile
	Medical device		Use-by date
	Keep dry		Keep away from Sunlight
	Consult instructions for use		Unique Device Identification
	Country of Manufacture		Model Number
	Importer		Distributor


## Warranty Card

Name of Customer		 (I) For Distributor
Address Details		
Postal Code		
Tel		
Model		
Machine ID		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer


**Guilin Yikeshi Medical Instrument Co., Ltd.**  
 D-8, Guilin National High-tech Zone Information Industrial Park, Chaoyang Road, Qixing District, Guilin, Guangxi, 541004, P.R. China  
 Postal Code: 541004  
 Tel: 0086 0773 5805522  
 Fax: 0086 0773 5805522  
 Email: sales@xpediency.cn  
 Website: www.xpedent-intl.com

Distributor:	Seal
--------------	------

## Warranty Card

Name of Customer		 (II) Return to Manufacturer
Address Details		
Postal Code		
Tel		
Model		
Machine ID		
Purchase Date		
Contact Person		
Date	Maintenance Record	Repairer


**Guilin Yikeshi Medical Instrument Co., Ltd.**  
 D-8, Guilin National High-tech Zone Information Industrial Park, Chaoyang Road, Qixing District, Guilin, Guangxi, 541004, P.R. China  
 Postal Code: 541004  
 Tel: 0086 0773 5805522  
 Fax: 0086 0773 5805522  
 Email: sales@xpediency.cn  
 Website: www.xpedent-intl.com

Distributor:	Seal
--------------	------

## Warranty Instruction

### I Period validity

Terms of service: We offer 12 months warranty repair to the equipment based on the date of sale on the warranty card, and charged maintenance for the life of the product.

### II Range of warranty

Within the warranty period of validity, we are responsible for any troubles caused by quality problems or products technique and structure.

### III The following are beyond our warranty

1. The damage caused by disobeying the operation instruction or lack of the needed condition.
2. The damage caused by unsuitable operation or disassembly without authorization.
3. The damage on product that caused by users' unexpected drop or impact to product.
4. The damage caused by unadvisable transportation or preservation.
5. There isn't the seal of distributor or the warranty card isn't filled in completed.

## Warranty Instruction

### I Period validity

Terms of service: We offer 12 months warranty repair to the equipment based on the date of sale on the warranty card, and charged maintenance for the life of the product.

### II Range of warranty

Within the warranty period of validity, we are responsible for any troubles caused by quality problems or products technique and structure.

### III The following are beyond our warranty

1. The damage caused by disobeying the operation instruction or lack of the needed condition.
2. The damage caused by unsuitable operation or disassembly without authorization.
3. The damage on product that caused by users' unexpected drop or impact to product.
4. The damage caused by unadvisable transportation or preservation.
5. There isn't the seal of distributor or the warranty card isn't filled in completed.



---

**SUNGO Europe B.V.**

Fascinatio Boulevard 522, Unit 1.7, 2909VA  
Capelle aan den IJssel, The Netherlands

**Guilin Yikeshi Medical Instrument Co.,Ltd.**

D-8,Guilin National High-tech Zone Information Industrial Park,  
Chaoyang Road,Qixing District,Guilin,Guangxi,541004,P.R.China  
Postal Code: 541004      Tel: 0086 0773 5805522  
Fax: 0086 0773 5805522      Email: sales@xpediency.cn  
Website: www.xpedent-intl.com