



APFH-60/APFH-60-NC HEADLIGHT

USER MANUAL

V.14.06.13

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INTRODUCTION

The **Headlight** is used for various medical examinations and procedures in the physician's office.

This manual describes the recommended procedure for installation and use of Headlight. It contains all the information necessary for the care and appropriate use of Headlight



This symbol will be used in this manual to indicate warnings or information which contains important precautions.

Should you have any doubt about the contents of this manual, operation or safety of the equipment; please contact Anthony Products.

Please carefully read the entire manual before using the equipment.

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Anthony Products' LED Headlight and Fiberoptic Headlight are CE approved, complying with European Council Directive 93/42/CEE related to medical equipment. The MDD equipment classification is I.

COMPONENTS

The **LED Headlight** includes the following components and elements needed for use.

It is recommended to identify and verify the existence of all parts prior to operating the equipment.

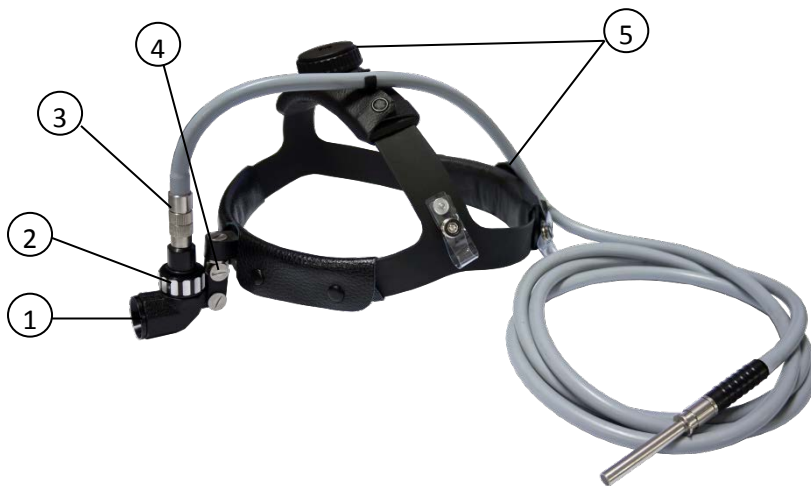
- Headband with LED illuminator
- Extension cord
- Battery with light intensity control
- Battery Charger
- User Manual

The **Fiberoptic Headlight** includes the following components and elements necessary for its use. It is recommended to identify and verify the existence of all parts prior to operating the equipment.

- Headband with illuminator
- User Manual
- Fiber optic cable (Storz Type) (**optional**)

DESCRIPTION

Fiber optic Headlight



- 1 Illuminator
- 2 Illuminated field size control
- 3 Fiber optic Cable connection Storz Type (Optional)
- 4 Articulated Arm
- 5 Size Adjustment

LED Headlight



- 1 LED Illuminator
- 2 Illuminated field size control
- 3 Articulated arm
- 4 Size Adjustment
- 5 LED Power Cord
- 6 Battery pack
- 7 Intensity Control with On/Off
- 8 Light Intensity indicator
- 9 Connection for LED power cord
- 10 Connection for charger

Characteristics

- It has a very low power LED, which prevents the generation of heat and has a lifespan of approximately 50000 hours.
- Light intensity is constant and independent of battery charge.
- The temperature of the color is 6000°Kelvin, provides bright and shadowless white light, allowing optimum viewing for users.
- Light intensity and size of illuminated field can be varied continuously.
- The LED Headlight uses rechargeable lithium battery, and does not need an AC power source. It is comfortable, light weight equipment that can be used in various medical examinations and procedures in a doctor's office.
- The Headlight can be used while the battery is charging; this does not reduce the life time of the unit.
- Smart design, very suitable for mobile diagnostics.

TECHNICAL SPECIFICATIONS

Optical Specifications		
Illumination at 300 mm distance	≥12000 lux	
Adjustable Range		
Diameter of illuminated field 300 mm	Adjustable in the range of 35 to 75 mm	
Angle range	Vertical +/- 90°	
Weight		
Headlight without battery	295g	
Electrical Specifications		
Type of Light	Extremely bright light, 5W LED LED lifetime continuous approx. 50,000 hours. No need to replace LED	
Battery	Lithium Battery 8.4 VDC	
Duration of Use	Over 8 hours of continuous use on fully charged battery	
Charger input power	100-240 VAC, 50-60Hz	
Maximum input power	15W	
Output power	8.4 VDC, 800mA	
Environmental Requirements		
Conditions of use	Ambient temperature	10 °C to 40 °C











LABELS

The following label is found on the LED Headlight and Fiberoptic Headlight respectively. All personnel should be acquainted with its meaning and location.



This label contains the equipment serial number. Please include this information with any replacement or accessory order or with any consultation.

GRAPHIC SYMBOLS

	Warning!
	Alternating Current
	Protect against water
	This side up
	Fragile
	CE Mark
	Manufacturers information (Name, Address)
	Type of applied BF equipment
	Read the accompanying documents
	Do not discard with the household waste

INSTRUCTIONS FOR USE

Fiberoptic Headlight

Connect the fiberoptic cable (3) to the illuminator and the Storz end of the cable to the light source being used. Place the instrument on the head and adjust the size (5) for firm and comfortable fit.



We recommend using Anthony Products light sources for optimum lighting.

Adjust the position of the illuminator (1) up and down, back and forth until you reach a comfortable position. The size of the illuminated field can be adjusted using the slider(2).

LED Headlight



Perform an initial charging of battery for 4 hours prior to first use.

Connect the power cord from the LED illuminator (5) to the battery pack (9). Place the instrument on the head and adjust the size (4) for firm and comfortable fit.

Turn the LED Headlight On by holding the intensity control knob down (7) for 2 seconds. The light intensity indicator bar (8) flashes 2 times and then the illuminator turns on (1). Use the intensity control knob (7) to adjust the brightness as required.

Adjust the position of the illuminator (1) up and down, back and forth until you reach a comfortable position. The size of the illuminated field can be adjusted using the slider (2).

If you want to continue the exam without pausing to recharge the battery, simply connect it to the charger to recharge the battery (4). The charger light will turn red indicating that it is charging the battery.

When the exam is completed turn off the Headlight by holding the intensity control knob (7) down for 2 seconds, thus maximizing the useful life of the battery and LED.

MAINTENANCE

Charging and Battery replacement

When using the Headlight for the first time or after long period without use or when new battery is placed, please charge the unit for initial 4 hours.

If you want to continue with the exam without pausing to charge the battery, simply connect the charger to the battery pack. The charger light will turn red, indicating that the battery is charging. When the battery is fully charged light turns green.

When the battery is fully charged, disconnect the charger from the device and the outlet.

The battery can be charged and discharged more than 500 times, but eventually will start to run out. When the usage times are noticeably shorter than normal, replace the battery.



Caution: Use only batteries, chargers and accessories approved by Anthony Products for this particular model.

The use of any other type may invalidate any warranty and may be dangerous.

For availability of approved accessories, please contact your local dealer.



The battery should not be discarded with household garbage. Please check your local regulations for disposal of Lithium batteries.

Use and Care of the battery

The capacity of lithium battery changes according to the terms of use. For maximum battery capacity, use in ambient temperatures between 25 °C and 40 °C. Do not expose the battery to extreme temperatures, as it will reduce its capacity.

Proper charging: Disconnect the charger from the electrical outlet and the device when not in use. When the battery is fully charged unplug charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time.

Cleaning and Sterilization

The outer surface of the instrument should be cleaned with a damp cloth. Remaining stains can be removed with a mixture of 50% alcohol and 50% distilled water. After cleaning the external parts should be dried with a soft cloth. Do not attempt to clean with corrosive detergent because it may damage the surface.

Lens cleaning: Use cleaning cloth for mirrors or lenses with a drop of liquid solvent (50% and 50% alcohol, ether) to clean the lens, gently wipe. If there is dust on the lens try to remove it with compressed air or try to pass a delicate brush to avoid scratching the lens surface.

Do not use sharp objects or plain paper to clean the lens.



Caution: Prevent the entry of solvent into the instrument

Do not sterilize the Headlight by immersion, high temperature or high pressure



Thank you for purchasing this product. To avoid damage to your product or user, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the instrument can read.

PRODUCT CARE

- Do not expose the equipment to liquid splashes or moisture.
- Do not touch the lens with your hand or hard objects.
- Avoid flashing the light in the patient's eyes.
- Keep the unit covered when not in use.
- If not in use for prolonged time, please remove the battery.

TECHNICAL SERVICE

The Headlight should be repaired and / or maintained exclusively by ANTHONY PRODUCTS authorized personnel. We recommend the following procedure to expedite the repair and replacement of products under warranty.

1 Contact the technical service department of your local dealer or the nearest office of ANTHONY PRODUCTS.

2 Provide details of the problem.

3 If the problem cannot be resolved through troubleshooting, please return the product for repair.

You must include the following product information;

- Name of the customer.
- Address of the customer.
- Contact person and phone number.
- Product serial number.
- Description of the problem.

Shipment must be sent back in the original packaging to avoid damage to the equipment during shipment. ANTHONY PRODUCTS will not be liable for any damages or defects caused during transportation that are linked to poor packaging.

WARRANTY

ANTHONY PRODUCTS declares that the Headlight has passed our Quality Control and no defects have been found in its manufacture, therefore guarantees proper working order under adequate conditions that are indicated in this manual. The warranty is for the term of one (1) year starting on the purchase date.

ANTHONY PRODUCTS is not responsible for damage caused by / to Headlight by misuse, neglect, cleaning or storage. Repairs made by personnel not authorized by ANTHONY PRODUCTS void this warranty. The above warranty applies only to the original purchaser.

The following parts are excluded from the warranty:

- Battery
- Cables and plugs
- Damage resulting from connection to incorrect voltages

Regardless of the warranty situation, all shipping charges to or from a facility authorized by ANTHONY PRODUCTS are the responsibility of the customer.

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The information contained in this manual may be modified or extended without previous notification, without it representing any responsibility to ANTHONY PRODUCTS.

NOTES
