



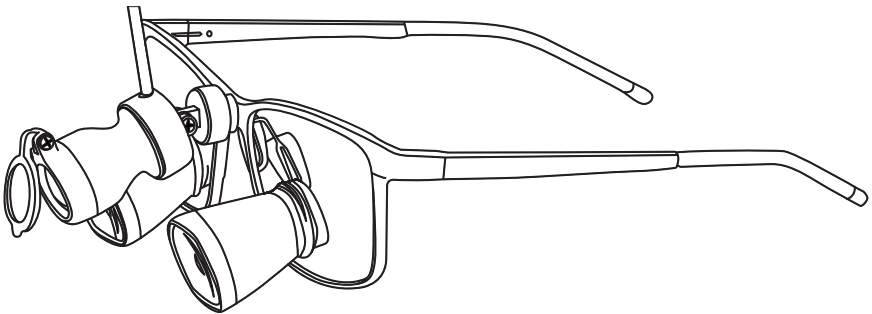
Axis™

LED Light System

Activ Neck Battery Package
PP1.5 Hip Battery Package
Hybrid Package



Instructions For Use



Note: The image shown above is for illustration purposes only. Actual product may vary depending on model purchased.

Introduction

This [Instructions For Use] manual is the most comprehensive source of information for the safe and effective use of your product. This manual may be used by surgeons, dentists, veterinarians, or other healthcare professionals.

Keep and consult this reference manual during the life of the product.

The following conventions are used in this manual:

- A **WARNING** highlights a safety-related issue. Always comply with this information to prevent injury to patient, user, medical personnel, and/or other persons and animals.
- A **CAUTION** highlights a product reliability issue. Always comply with this information to prevent product damage.
- A **NOTE** supplements and/or clarifies procedural information.

If additional information, especially safety information, or in-service training is required, contact sales representative or Enova Customer Care Team at support@goenova.com

Trademarks not the property of Enova Illumination are the property of their respective owners.

Indications for Use

Axis light is a magnetic light system designed to provide illumination during dental or minor surgical procedures. Axis light is part of the Enova Illumination product family.

Contraindications

None known.

Limitations of Use

None known.

For Use With

Approved batteries, charging cables, Axis extension battery cable and Enova loupes.
See [Accessories] section.

Safety & Care Instructions



WARNING:

- Please read the instruction manual carefully before using your Enova magnetic light. Damages due to disregard of the instructions within this manual are not covered under the warranty policy of Enova Illumination.
- Do not look directly into the magnetic light when illuminated. Do not shine the light directly into the patient's eyes or face. Due to the intensity of light, eye injury may result. Patient's eyes should be appropriately protected in procedures involving the face or head.
- After a few minutes of operation, the light housing may become warm to the touch. This is normal and functions to dissipate heat from the LED chip. Always use a surgical glove or sterile cloth to adjust the angle of the lens when in use.
- Do not use the magnetic light while batteries are charging.
- Do not use any third-party chargers with Activ neck battery or PP1.5 hip battery, even if they look identical. Third-party chargers are not compatible with the batteries and could damage them.
- Avoid direct sunlight or heated surfaces to prevent batteries from overheating.
- Do not use close to explosive or highly flammable materials like alcohol, methanol, acetone, etc.
- Avoid shock to product by keeping product in approved composite carrying case when not in use.
- Do not use the magnetic light, power packs or charging cables in explosive gas environments.
- Do not autoclave, immerse or submerge in liquid, spray with liquids or leave the magnetic light "on" when transporting as it will cause damage to the light or may cause a fire.
- Please consult local regulations for the disposal of electronic products.

Accessories

This section describes components that may be ordered to replace original equipment that is damaged, worn, or must be replaced.



WARNING:

- Use only Enova-approved components and accessories, including power packs, unless otherwise specified.
- Do not modify any component or accessory, unless otherwise specified.

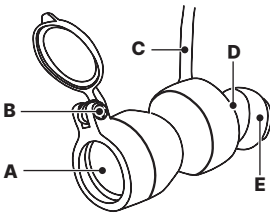
Note: For a complete list of accessories, contact sales representative or Enova Customer Care Team at support@goenova.com

The following Enova approved accessories can be sold in conjunction with the Axis LED Light System.

DESCRIPTION	REF
PP1.5 (Hip) Battery	80203-001
Activ (Neck) Battery	80204-00X
PP Mobile Battery Charger	80102-001
Axis Extension Battery Cable	80304-004
Axis Light Accessory Kit	800050-002
Enova Light Case (PP1.5/Hybrid system)	80034-006
Enova Light Case (Activ system)	80034-008

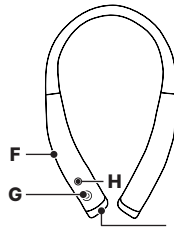
Features

Axis LED Light



- A. Optional HD Glass Composite Filter:**
Removes the light wavelength that speeds up the curing of composite materials.
- B. Filter Screw:**
Tightening screw for optional HD Glass Composite Filter.
- C. Axis Light Cable:**
Connects the light source to the battery connection.
- D. Light Adjustment Bracket:**
This bracket is used to adjust the light beam to fit coaxially to the line of sight.
- E. Magnetic Loupe Adapter:**
This adapter attaches the light to the frames or loupes.
- F. Output Port for Axis Light Cable:**
Connection port to attach light source cable.

Activ Neck Battery



- G. Power Button/Brightness Adjuster (Activ):**
Touch capacitive turn light On/Off and adjust brightness.
- H. Indicator Light (Activ):**
Indicate charging status and in use.
(Green - Fully charged, Red - Charging)
- I. Charging Port (Activ):**
Port to connect mobile charging cable.
- J. Power Button (PP1.5):**
Turn light On/Off.
- K. Variable Control Buttons (PP1.5):**
Adjust light brightness levels.
- L. Output Port for Axis Extension Battery Cable:**
Connection port to attach light source cable.
- M. Charging Port (PP1.5):**
Port to connect mobile charging cable.

PP1.5 Hip Battery



Instructions

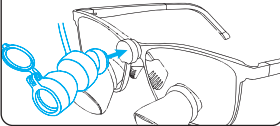


- WARNING:** Perform recommended inspection and testing as indicated in the [Prior To Use] section.
- Always operate the equipment within the specified environmental conditions.
 - Do not cut or puncture the magnetic cable.
 - Always remove cable from battery after each use.

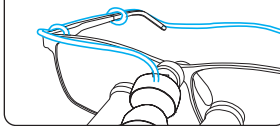
- CAUTIONS:**
- Do not scratch the magnetic light lens.
 - Do not stretch or kink the cables. Failure to comply will damage the cable and reduce the light output permanently.

Instructions with Activ Neck Battery:


1 Attach light magnet cup to the magnet on your loupe



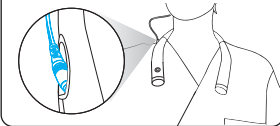
2 Arrange the cable with temple arm using the provided rings



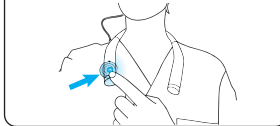
3 Wear loupe and place Activ battery on your neck



4 Plug the other end of the battery cable to battery output port



5 Touch the power button to turn on the light

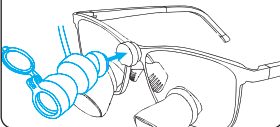


Instructions with PP1.5 Hip Battery:

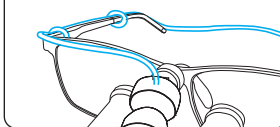


- WARNING:** Do not plug Axis light cable directly to PP1.5 battery. It can cause burning. Always connect Axis light cable with battery extension cable to source power to the light.

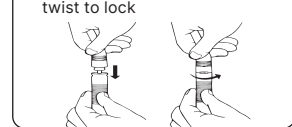
1 Attach light magnet cup to the magnet on your loupe



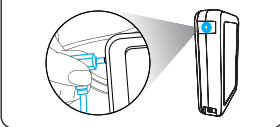
2 Arrange the cable with temple arm using the provided rings



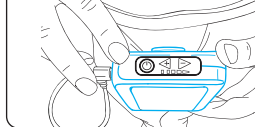
3 Plug Axis light cable end to extension battery cable and twist to lock



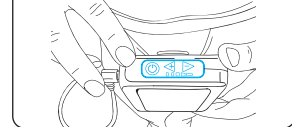
4 Wear loupe and plug the other cable end to battery output port



5 Place battery using battery clip



6 Press the power button to turn on the light



Charging Battery:

1. Turn off the light and remove from battery. Detach all cables from their ports.
2. Plug mobile charger into outlet with appropriate electrical voltage. Refer to specification label or charger.
3. Connect mobile charger to battery's charging port.

To Connect Axis Light to Loupes



WARNING: Do not over-loosen filter. Small internal components may be lost.

Connect to Enova Loupes:

1. Ensure that loupe has magnetic adapter secured to frame with notch of magnet pointing down.
2. Ensure battery cable is at the top and gently secure the magnetic adapter to magnet on brim of the loupe frame. Do not pull tight as it may cause damage to the cord connection.
3. Adjust angle of the light source to be coaxial with eyes and illuminate the entire field of view through the loupe telescopes.
4. Secure the cable to the fasteners on the temple arm of the frame.
5. If necessary, tighten hinge on filter using provided screwdriver. Be gentle as the components are very small. Tighten as you would normally a screw until filter moves up and down at your desired resistance.

Connect to non-Enova Loupes using Universal Clip (sold separately):

1. Clip securely to frame by pinching and then releasing the clip.
2. Each frame is different and you may need to adjust a few times to find the right fit.
3. Follow steps above ("Connect to Enova Loupes") to connect the light to the magnet on the adapter.

Note: The attach the light on a non-Enova loupe, please contact sales representative for an approved adapter or universal clip. Adapters and universal clips are sold separately.

Battery Information

Axis light is compatible with two Enova manufactured batteries and offers various levels of light intensity. Activ battery is a neck-worn, capacitive touch battery designed to be easily activated and adjusted through fowns and without removing gloves. PP1.5 power pack is a standard hip battery.

Activ Neck Battery:

The battery will not be fully charged when it arrives. Batteries will be shipped at less than or equal to 30% charge in accordance with the International Air Transport Association. It is highly recommended to charge the Activ neck battery fully before use. The LED indicator shows status of charge.

As battery life decreases, the LED will go through the following sequence:

1. The LED flashes red while charging.
2. The LED turns solid green when fully charged.
3. The LED is solid green when powered on.
4. The LED light flashes red and the light flashes when the battery has approximately 5 minutes of power remaining.

PP1.5 Hip Battery:

The battery will not be fully charged when it arrives. Batteries will be shipped at less than or equal to 30% charge in accordance with the International Air Transport Association. It is highly recommended to charge the PP1.5 battery fully before use. The LED indicator shows status of charge.

As battery life decreases, the LED will go through the following sequence:

1. The green LED lights decrease from 5 to 1 and then increase as flashing red LED lights from 1 to 5 as the power id depleted. The battery sounds a beep when each LED turns red.
2. With 5 flashing red LED lights, the battery has about 5 minutes of power left.
3. When charging, the LED lights will flash green and increase from 1 to 5 lights.
4. When fully charged, the middle LED light will be solid green.

To Use Axis Light

With Activ Neck Battery:

1. Connect the Axis light cable to the Activ battery output port.
2. Turn the light on by touching the power button.
3. Adjust brightness level by touching the same power button. (3 brightness levels)
4. Adjust angle of the light so light beam is visible through loupes or frame and coaxial to line of sight.
5. Turn the light off by tapping the power button until the light turns off.

With PP1.5 Hip Battery:

1. Connect the Axis light cable to the PP1.5 battery extension cable.
2. Connect the extension battery cable to the PP1.5 battery output port.
3. Turn the light on by pressing the power button.
4. Press the "+" and/or "-" buttons on the battery to adjust the light intensity.
5. Turn the light off by pressing the power button.

Note: The +/- buttons can be used to increase or decrease the intensity of the light, but the LED lights on the battery do not reflect the current output/light intensity.

To Disconnect Axis Light

1. Turn off the light and disconnect from power source.
2. The light is held in place by a strong magnetic connection. Grip the frame and body of the light firmly and pull apart with enough force to detach the light from the magnetic adapter.
3. Clean after each use. See [Cleaning] section.

Note: The strong magnetic connection ensures light will remain in place and will not fall off during procedures or exams.

Prior To Use



WARNING:

- Only individuals trained and experienced in the maintenance of medical devices should inspect this equipment.
- Do not use any equipment if damage is apparent or the inspection criteria are not met.

Interval	Inspection Criteria	Action
Before each use	Inspect equipment for damage, wear, or missing components.	If damage is apparent, replace the equipment.
	Inspect power cord. Twist cable for cuts, punctures, or kinks.	
	Inspect light lens for scratches.	
	Inspect batteries housing for cracks.	

Note: For service, contact sales representative or Enova Customer Care Team at support@goenova.com

Note: If any component must be discarded, see [Disposal/Recycle] section.

Cleaning

CAUTIONS: Do not use solvents, lubricants, or other chemicals, unless otherwise specified.

To clean the light:

1. Exterior surfaces of the light can be cleaned using a gauze pad or cotton swab moistened with 70% isopropyl alcohol. After cleaning, wipe the area with a lint-free soft cloth moistened with water to remove any residue.
2. Do not immerse or spray the light, batteries or charging cables with any liquids. Make sure no liquid comes in contact with the light, electrical connectors, charging cables or batteries.
3. To ensure a long life of the light, batteries and charging cables, Enova recommends storing them in the supplied case when not in use.

Storage and Handling

CAUTIONS: Always store the equipment within the specified environmental conditions throughout its useful life. To ensure the longevity, performance and safety of this equipment, use of the case supplied by Enova or water tight packaging is recommended when storing or transporting this equipment.

Disposal / Recycle



WARNING:

Always follow the current local recommendations and/or regulations governing environmental protection and the risks associated with recycling or disposing of the equipment at the end of its useful life.

Specifications

Model Name	Axis LED Light System
Part Number	90900-XXX
Lamp Illumination	30,000 Lux @ 10"
Color Temperature	6,100K
Light Spot Size	4.00" @ 12"
Light Source	LED Reflective Technology
Housing Material	Aluminum
Weight	17.6g / 0.62oz (w/o filter)

Symbol Definition

Symbol	Definition (Indication Color)	Symbol	Definition (Indication Color)
	General Warning Sign (Yellow)		Light Intensity
	Catalog Number		Recycle: Electronic Equipment (in Accordance with Local Laws)
QTY	Quantity		CE Mark indicating that the device complies with Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices
	Lot Number		
	Medical Device		

Troubleshooting

Issue	Troubleshooting
The light does not work steadily due to discharged battery.	Replace battery. Charge the discharged battery.
Battery does not function.	Discontinue use and contact sales representative or Enova Customer Care Team at support@goenova.com
LED failure.	
Battery overheats or produces fire during charge.	
Battery leakage.	
Battery swelling.	

Warranty

Your Enova product is backed by an industry-leading warranty.
To review your product warranty, visit: www.goenova.com/product-support

Keep this warranty in your records.

ORDER No.		
	Model	Serial Number
LIGHT	<input type="checkbox"/> Axis (Standard)	
OTHER		

Enova Illumination
World Headquarters

6305 Sandburg Road, STE 100
Minneapolis, MN 55427 USA
1-651-236-8857
support@goenova.com

