



# GIMA

PROFESSIONAL MEDICAL PRODUCTS

**OTO-OFTALMOSCOPIO F.O. XENON VISIO 2000  
3,5V (plug-in)**

**VISIO 2000 F.O.XENON OTO-OPHTHALMOSCOPE  
3.5V (plug-in)**

**SET OTO-OPHTHALMOSCOPE F.O. XÉNON VISIO 2000  
3,5V - (prise à 2 broches)**

**SET OTO-OFTALMOSCOPIO F.O. XENON VISIO 2000  
3,5V (plug-in)**

È necessario segnalare qualsiasi incidente grave verificatosi in relazione al dispositivo medico da noi fornito al fabbricante e all'autorità competente dello Stato membro in cui si ha sede.

All serious accidents concerning the medical device supplied by us must be reported to the manufacturer and competent authority of the member state where your registered office is located.

Il est nécessaire de signaler tout accident grave survenu et lié au dispositif médical que nous avons livré au fabricant et à l'autorité compétente de l'état membre où on a le siège social.

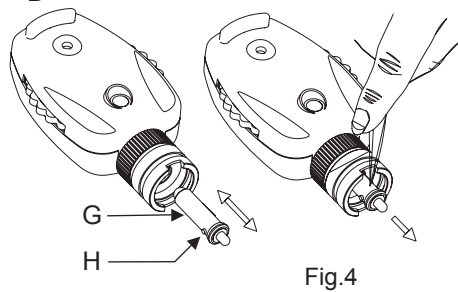
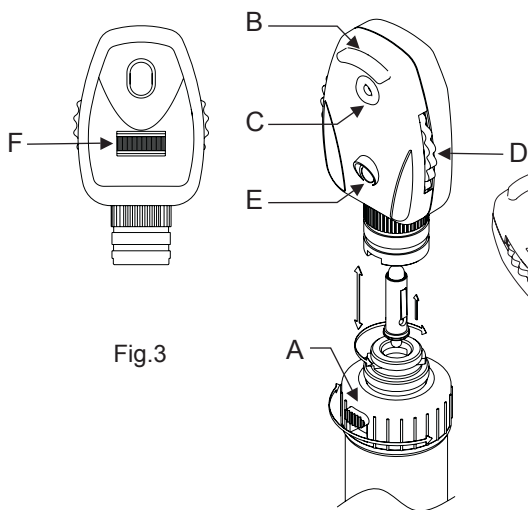
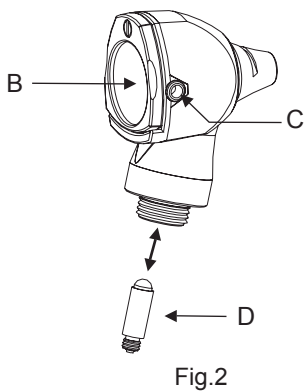
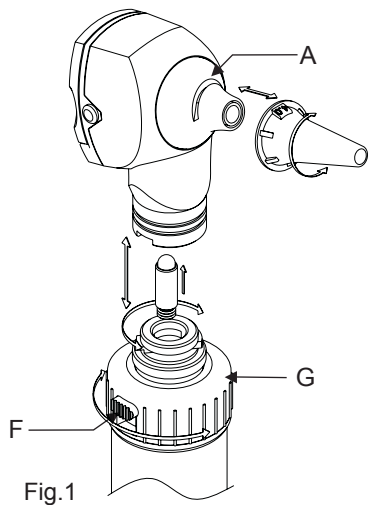
Es necesario informar al fabricante y a la autoridad competente del Estado miembro en el que se encuentra la sede sobre cualquier incidente grave que haya ocurrido en relación con el producto sanitario que le hemos suministrado.

**REF 31537**



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Made in Pakistan





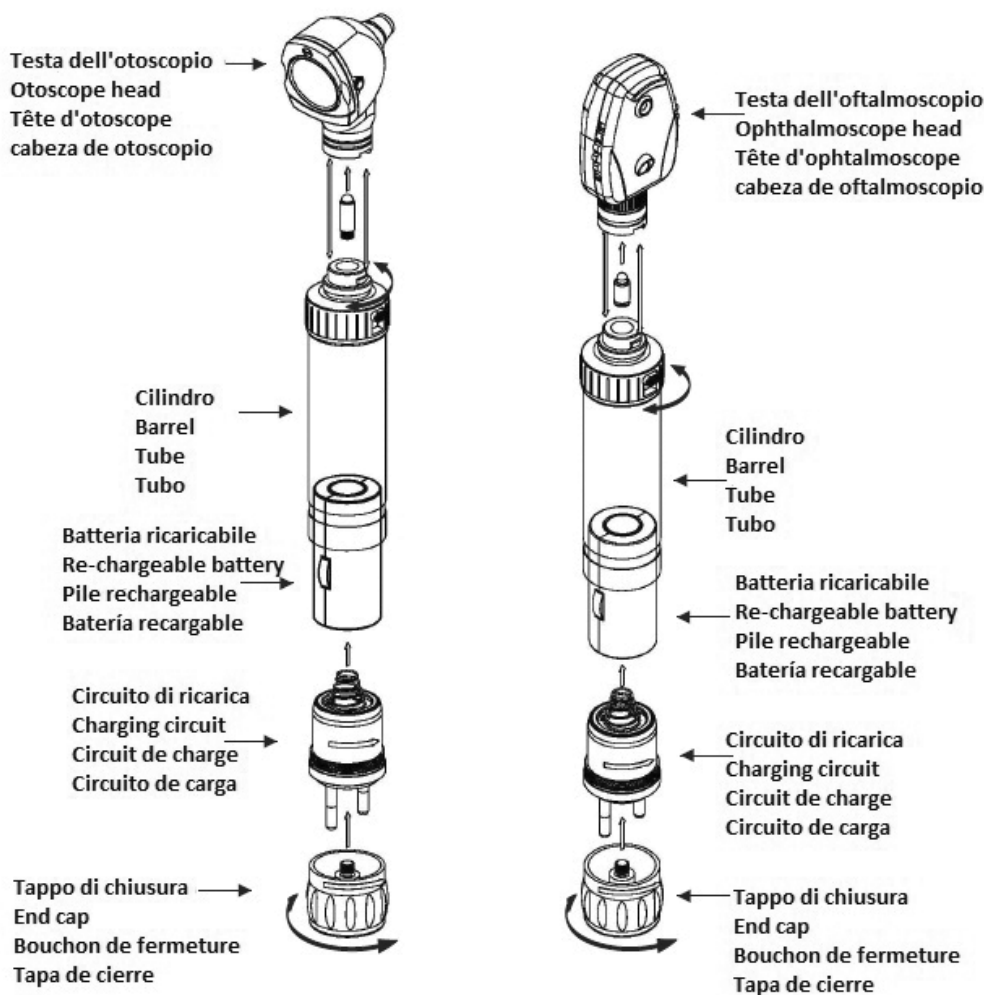


Fig.5

## OTOSCOPE

The Otoscope is designed to examine the external ear and for general non-invasive examination.

### Features

- Made from Impact Resistant re-enforced plastic and highly reliable corrosion resistant stainless steel.
- Easy replacement of lamp.
- Distal fibre optic illumination with super bright 3.5V Xenon/Halogen.
- Insufflation port pneumatic testing of tympanic mobility.
- Swivel type window with 3x Magnification lense for sharp images and minimal Reflection.



The Otoscope should only be used to examine the ear when a tip is fitted. Pressure should be applied with great care when doing pneumatic testing.

### OPERATING INSTRUCTION

Attach the otoscope head to the handle by bayonet locking system, it is necessary to hold the battery handle and head in each hand and match the bayonet grooves on both the head and handle, push the head down and turn the head clock wise as in Fig.1.

1. Check that the connection between the head and handle is perfect and that the rheostat works properly.
2. Push the button (F) on the handle and twist the black knob (G) towards the left hand side.

The unit is now in operating position. The intensity of the light can be adjusted by turning the knob clock wise or counter clock wise.

3. Switch off the unit after use to preserve batteries. Twist the black knob towards right until an audible click sound is heard once the button comes to its off position.

### Attaching a tip

The Otoscope may only be inserted into the auditory canal when a disposable (grey) or reusable (black) tip is fitted. Push the tip onto the instrument so that the internal projection engages in the slit (A) as in Fig.1. Twist to the right to lock. Do not reuse the disposable speculum, because may cause patient-to-patient contamination

### Magnifying lens

The lens (B) fig.2 has 3 x magnifications and can be swiveled aside for instrumentation.

### Insufflations port

An insufflations bulb can be fitted to the port (C). A separately Insufflations bulb is used for pneumatic testing of tympanic mobility

### Reusable Ear tips

These can be cleaned, disinfected or sterilized by any conventional method. Autoclaving is allowed. (121°C)

## OPHTHALMOSCOPE

The Ophthalmoscope is designed for all general ophthalmic examination.

### Features

- Made from Impact Resistant re-enforced plastic.
- Enhanced Xenon/Halogen super bright light.
- Easy replacement of lamp.
- Dust proof housing.
- 6 apertures to select from, micro spot, small spot, large spot, fixation, slit and red-free filter. This selection of apertures covers all the physician's needs in an ophthalmologic examination.



- Color coded 28 lenses for perfect examination (Green for +, Red for -)

0	1	2	3	4	5	6	7	8	9	10	12	15	20	40
	1	2	3	4	5	6	7	8	9	10	15	20	25	

## OPERATING INSTRUCTION

Attach the ophthalmoscope head to the handle by bayonet locking system, it is necessary to hold the battery handle and head in each hand and match the bayonet grooves on both the head and handle, push the head down and turn the head clock wise as in Fig.3.

1. Check that the connection between the head and handle is perfect and that the rheostat works properly.
2. Push the button (A) on the handle and twist the black knob towards the left hand side. The unit is now in operating position. The intensity of the light can be adjusted by turning the knob clock wise or counter clock wise.
3. Gently place the rubber eye brow (B) near your eye. Viewing through window (C) point the light beam at the center of the eye lens.
4. With your index finger turn the wheel (D) clockwise or counterclockwise to select the desired lens. The power of the selected lens is visible through window (E).
5. The ophthalmoscope is equipped with a set of 6 different aperture, which can be selected by turning the wheel (F). Switch off the unit after use to preserve batteries. Twist the black knob towards right until an audible click sound is heard once the button (A) comes to its off position.

## HANDLE

The Handle is connected directly to mains supply for charging battery, eliminating the need for adapters. The bottom insert incorporates a cap to protect the plug pins. This should be screwed on after charging. You can use either 3.5V NiMH or Li-ion rechargeable batteries.

## Features

1. Excellent light, suitable for otoscopic and ophthalmoscopic examination.
2. Rheostat integrated handle for illumination control.
3. Soft Start Technology. When turned on Introduces voltage gently to instrument bulb. Soft Start Technology greatly increases bulb life.
4. Variable light output.
5. Sealed unit keep the product clean.
6. The Bayonet lock head is available with both vacuum and Halogen bulbs.
7. Handle is powered by a 3.5V rechargeable battery. Li-Ion batteries are recommended for optimum performance.

## Unpacking

After opening the package, first of all it is necessary to check all pieces and parts composing the product. Check that they are all present and in perfect conditions.

## Assembling

Unscrew the end cap by rotating it to anti-clockwise direction. Open the plug pins case (transformer case) located at the bottom of handle by rotating it in anticlockwise direction. Insert rechargeable battery in the handle. Now close the plug pins case by rotating it in clockwise direction and then screwed the end cap by rotating it in clock wise direction as shown in fig.5. Handle is ready for use.

Same is the procedure for replacing battery.



In case of replacement of battery, carefully handle the old battery as the liquid in a leaking battery can irritate skin and eyes.

## Lamp Replacement Procedure

Before removing the lamp, make sure that the instrument has been turned off for some minutes otherwise you run the risk of being burnt.

Remove head from handle. Connection between head and handle is through bayonet locking system. In this case, it is necessary to hold the battery handle and head in each hand and rotate the head in anticlockwise direction and push the head up.

Grasp the end of lamp and pullout it (use tweezers or similar object if necessary) Insert replacement lamp by carefully aligning pin on lamp shaft with slot in head. Push the lamp until firmly seated.

## **Operating Instructions**

1. The handle is only to be used by authorized professional personnel. The handle is to be used exclusively for charging 3.5V Li-ion rechargeable battery and for diagnoses purpose.
2. For charging battery, open the end cap located on the plug pins case. Insert plug pins directly to supply mains. After connection of the plug in handle with the main power source, the handle is ready for charging.
3. It does not have indication that shows that battery is fully charged. So, it is recommended that do not charge battery for more than 8 hours. However there is no chance of over charging of batteries because batteries contains over charging cut-off circuit.
4. To stop charging of battery remove Plug pins from mains supply.
5. Before using it for diagnosis purpose, it is necessary to insert the batteries into the handle compartment as illustrated in assembling (fig.5).
6. Connection between head and handle is through bayonet locking system. In this case, it is necessary to hold the battery handle and head in each hand and match the bayonet grooves on both the head and handle. For locking push the head down and turn the head clock wise.
7. Check that the connection between the head and handle is perfect and that the rheostat works correctly.
8. Push the button on the handle and twist the black knob towards the left hand side. The unit is now in operating position.
9. The intensity of the light can be adjusted by turning the knob clock wise or counter clock wise.
10. Switch off the unit after use to preserve batteries. Twist the black knob towards right until an audible click sound is heard once the button comes to its off position.

## **Specifications**

Classification: Class II, Type BF Applied Part

Supply Voltage: 100V-240V AC, 50-60 Hz

Output Voltage 3.5-3.7 V

Charging Current: 200 mA

Power Consumption: 2 VA

### **Battery:**

Voltage: 3.5V

Capacity: 1400 mah

Charging time: 7 hours

Type: Li-ion

### **Lamp:**

Voltage: 3.5V

Power: 2.5watt

Lux: 23,000

Life: 20 Hours

### **Dimensions:**

Handle: 143.7mm (5.56") x 32mm (1.25"),

**Weight:** 151 grams (5.32 oz)

### **Environment:**

Operating: +10°C to +40°C (50° F to 104° F), 95% RH, 500hPa to 1060hPa

Transport/Storage: -20°C to +49°C (-2°F to 120°F), 95% RH, 500hPa to 1060hPa.

## **Precautions**

The handles shall be handled carefully. The product shall be used by qualified personnel only. Do not use the equipment in case it is damaged. Apply to

your retailer. Broken bulbs can cause injuries or cut. Carefully handle and immediately replace. Avoid precarious repairs. Repairs shall be carried out with original spare parts only, which shall be installed according to the intended use. Protect lamp surface against abrasions and scratches.

This product is designed for intermitted use typical on time continuous should not increase 10 minutes.

## Cleaning

### 1) Lens:

The lens can be cleaned by using a moistened cotton-tipped applicator with a solution of water with mild detergent. Do not use abrasive Ultrasonic cleaners, alcohol or other chemicals to clean the lenses as this may degrade lens quality, as they will scratch the coated surface of the lenses.

### 2) Handle:

The handle can be cleaned with a moist cloth. Battery handle shall not be dipped into water. While cleaning, make sure that lamp and battery are not soaked with water. Remove battery and transformer casing while cleaning. Periodically check the battery condition, making sure that no sign of corrosion or oxidation is present, in case they are present, it is highly recommended to use new battery. For battery replacement see "Assembling". Autoclaving and Flash sterilization the handle will result in severe electrical damages.

## Storage

Since the product is made of corrosion-proof materials suitable for the environmental conditions foreseen for its normal use, does not require special care, however it is necessary to store it in such a way to make sure that it is protected from dust, and water to assure its hygienic conditions and protection against short circuit. Moreover, it is recommended to store the product without battery.

## Use and Maintenance













Before removing the diagnostic unit (otoscope head or ophthalmoscope head), make sure that switch is off. Handle plug pins case carefully as it contains circuit for charging battery.

Any unauthorized modification/service is not allowed because it may cause short circuit that may damage the equipment, so always contact the authorized person for repair.

Disconnect the handle from main supply prior to any maintenance.

Handle is not suitable for use in the presence of a flammable anesthetic mixture with air or oxygen or nitrous oxide. An explosion may result.

Examine heads, handles and transformer case for wear or damage monthly. After every use, clean the Handle according to the Cleaning Section of this manual.

	Caution: read instructions (warnings) carefully		Follow instructions for use
	Keep in a cool, dry place		Keep away from sunlight
	Manufacturer		Date of manufacture
	Product code		Lot number
	Medical Device compliant with Regulation (EU) 2017/745		Type BF applied part
	WEEE disposal		Medical Device



**Disposal:** *The product must not be disposed of along with other domestic waste. The users must dispose of this equipment by bringing it to a specific recycling point for electric and electronic equipment.*

## GIMA WARRANTY TERMS

The Gima 12-month standard B2B warranty applies.