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PROFESSIONAL MEDICAL PRODUCTS

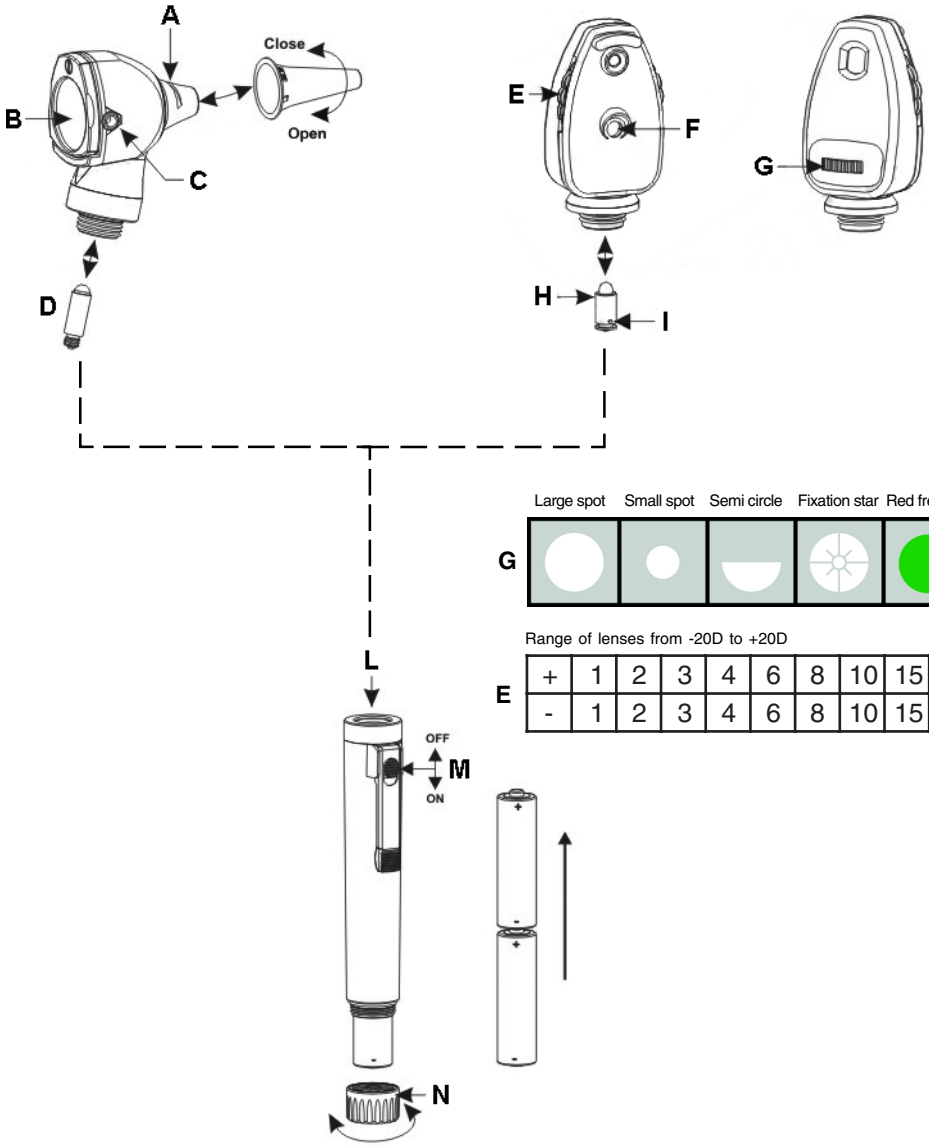
SIGMA OTOSCOPES AND OPHTHALMOSCOPES

User manual

ATTENTION: *The operators must carefully read and completely understand the present manual before using the product.*

Gima S.p.A.
Via Marconi, 1
20060 Gessate (MI) Italy
Made in U.A.E.

M-31525-M-Rev.2.11.17



Range of lenses from -20D to +20D

E	+	1	2	3	4	6	8	10	15	20
	-	1	2	3	4	6	8	10	15	20

cod. 31524

cod. 31525
cod. 31526 (led light)

cod. 31527

cod. 31528

FEATURES

Sigma otoscopes and ophthalmoscopes are medical devices for professional use in ear, throat and nose therapies and ophthalmoscopy.
The device is powered by two “AA” alkaline batteries, 1.5 Volt installed inside the handle.
Sigma otoscopes have a removable lens **B** that enlarges images up to 3X and an outlet for blowing air **C** to verify the mobility of the ear membrane.
Sigma ophthalmoscopes have a lens selection wheel **E** and a diaphragm **G** selection wheel**.**
Window **F** shows the value of the selected lens**.**
The product or parts of it cannot be used for a use different from the one specified in the correct uses section of this manual.

PRESCRIPTIONS

The product shall be used exclusively with alkaline batteries type “AA” correctly installed.
It shall not be dipped into water! When cleaning, make sure that the lamp socket or the battery compartment is not soaked with water.

The product shall be used by qualified medical personnel only, in out-patients’ department. It is not conceived for the employment in operation room.

Do not use the equipment in case it is damaged. Apply to your retailer.
Avoid precarious repairs. Repairs shall be carried out with original spare parts only, which shall be installed according to the intended use.

Since the product is made of corrosion-proof materials suitable for the enviromental conditions foreseen for its normal use, does not require special care, however it is necessary to store it in a closed place making sure that is protected from dust and dirt to assure its hygenic conditions. Moreover, it is recommended to store the product in a place which can be reached easily by the personnel in case of necessity.

UNPACKING

Always remember that packing elements (paper, cellophane, stitches, adhesive tape, etc.) can cut and/or hurt if they are not carefully handled.
They shall be removed with adequate means and shall not be left at the mercy of irresponsible persons; the same is valid for tools used to remove packages (scissors, knives, etc.).

After opening the packages, 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.

INSTALLATION

Before using the device it is necessary to insert the batteries in the specific casing following this procedure:
- Open the battery case by removing the cap **N** on the bottom of the handle.
- After opening it, insert the batteries following the correct direction (polarity).
- To close the case put cap **N** back on verifying that the batteries touch the poles.
- Put head back on handle **L** tightening until end of travel.

OPERATION

Otoscope

First of all choose the size and type of speculum for the ear channel to examine. It is possible to ask GIMA for speculums of various sizes and colors.
To position the speculum insert it in its seat **A** and rotate clockwise, to remove rotate counter-clockwise and remove it from its seat **A.**
To switch on the light use the switch **M** on the upper part of the handle, after using the device make sure the light is switched off.

Ophthalmoscope

First of all switch on the light using the switch **M** on the upper part of the handle.
Rotate the wheel **G** to select the most suitable diaphragm from the 5 available ones. Rotate the wheel **E** to select the desired lens, the value of the lens is indicated in the window **F**.
After using the device make sure the light has been switched off.

MAINTENANCE

Periodically check the battery conditions, making sure that no sign of corrosion or oxidation is present, in case of necessity replace them with new alkaline ones.
Carefully handle the batteries as the liquids they contain can irritate skin and eyes.

Before being used, thoroughly check the product. The same operation shall be carried out after cleaning.
-Check that the connection between the head and the handle is perfect and that the rheostat correctly works.
-If the light is intermittent or in case it does not turn on, check the bulb, the batteries and the electric contacts.
In case the bulb stops working, it is possible to replace it with original spare parts.
To replace the bulb, it is necessary to take the speculum out, counter-clockwise turn the bulb and screw the new one down (see picture). It is advisable to use only original bulbs.

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

-Check that the glass is clean; on the contrary it shall be clean with a soft cloth.
-It is advisable to always have new bulbs and batteries at disposal for the maximum light.
-The head and the handle can be cleaned with a cloth soaked in the disinfecting product, they cannot be immersed in fluids.

The reusable speculums must be sterilized before being used again!
Do not use disposable speculums!
After use, the speculum must be removed from the head of the otoscope.

The product was designed to last a lifetime. It is resistant to most chemical products except for M.E.K. ketons, diluting substances and substances used to remove enamel.
If the lamp is exposed to humidity, remove the batteries and dry well to avoid short-circuits.

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.*
For further information on recycling points contact the local authorities, the local recycling center or the shop where the product was purchased. If the equipment is not disposed of correctly, fines or penalties may be applied in accordance with the national legislation and regulations.

GIMA WARRANTY CONDITIONS

Congratulations for purchasing a GIMA product.
This product meets high qualitative standards both as regards the material and the production.
The warranty is valid for 12 months from the date of supply of GIMA.
During the period of validity of the warranty, GIMA will repair and/or replace free of charge all the defected parts due to production reasons. Labor costs and personnel traveling expenses and packaging not included.
All components subject to wear are not included in the warranty.
The repair or replacement performed during the warranty period shall not extend the warranty.
The warranty is void in the following cases: repairs performed by unauthorized personnel or with non-original spare parts, defects caused by negligence or incorrect use.
GIMA cannot be held responsible for malfunctioning on electronic devices or software due to outside agents such as: voltage changes, electro-magnetic fields, radio interferences, etc.
The warranty is void if the above regulations are not observed and if the serial code (if available) has been removed, cancelled or changed.
The defected products must be returned only to the dealer the product was purchased from.
Products sent to GIMA will be rejected.