

## X-RAY ILLUMINATORS - LIGHT BOXES

MADE IN ITALY

### X-RAY ILLUMINATORS

GIMA light boxes are designed according to clinical standards for an extra white light for an accurate and precise reading of any detail. They incorporate a 3 mm acrylic screen compliant with safety norms (fuses, Schuko plug, green light On/Off, ...). Can be used on the table placed horizontally or vertically, depending on model or wall mounted.

Body made of oven-fired epoxy powder coated aluminium and injected ABS (colour RAL 7035).

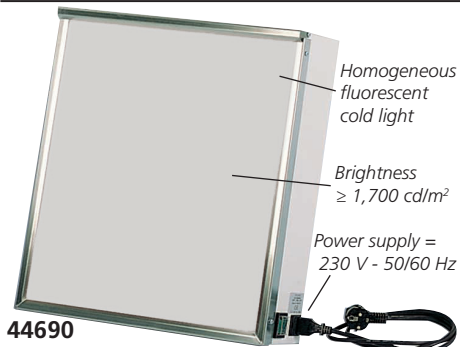
#### TECHNICAL SPECIFICATIONS

Colour temperature: Cool white 6,500 °K  
Power supply: 230 V - 50 Hz (60 Hz available with surcharge)  
Protection fuse: 2x1A  
Bipolar light switch  
Schuko plug with 2 m cable  
All components UL, DVE, IMQ approved



GIMA code	X-RAY ILLUMINATORS - LIGHT BOXES	External dimensions (cm)				Types
		Length	Height	Depth	Weight	
27364	Light box 38x38 cm	43	43	12	6	1 panel
27365	Light box 38x62 cm	67	43	12	8	1,5 panel
27366	Light box 38x92 cm	97	43	12	11	2 panels
27367	Light box 38x122 cm	127	43	12	14	3 panels
27368	Light box 38x153 cm	158	43	12	18	4 panels
27369	Light box 76x122 cm	127	2x43	12	28	2x3 panels
27370	Light box 76x153 cm	158	2x43	12	36	2x4 panels
27372	Light box 92x38 cm	43	97	12	11	2 panels vertical
27373	Light box 122x38 cm	43	127	12	14	3 panels vertical
27378	Neon tube for 27364					
27379	Neon tube for 27366, 27372					
27388	Neon tube for 27365					

## VALUE FOR MONEY LIGHT BOXES



Homogeneous fluorescent cold light

Brightness  $\geq 1,700 \text{ cd/m}^2$

Power supply = 230 V - 50/60 Hz

44690

GIMA X-ray illuminators have been designed according to clinical recommendations for an extra white light to give an accurate and precise reading of any detail. Made of enamelled sheet steel.

Unbreakable white monochromatic diffuser, stainless steel gripping system. On/off switch for separate use of each panel for 44692.

In conformity with MDR.

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GIMA code	X-RAY ILLUMINATORS - LIGHT BOXES	External dimensions (cm)				Types
		Length	Height	Depth	Weight	
44690	40x43 cm	43	46	14	6	1 panel
44692	80x43 cm	83	46	14	10	2 panels
44695	Round fluorescent light 32 W - spare					

## ILLUMINATED AND NOT ILLUMINATED OPTOMETRIC CHARTS

MADE IN ITALY



MONOYER

MIXED DECIMAL

ARMAGNAC

CHILDREN

ANIMALS

3m

3m

5m

3m

5m

• 27381

• 27382\*

• 27380

• 27383

• 27384

\*Not suitable for Portugal

See economic optometric charts at page 273

GIMA luminous optotypes have been designed according to clinical recommendations for an extra white light to give an accurate and precise reading of any detail.

Manufactured with acrylic screen, and according to safety norms (fuses, Schuko plug, green light On/Off,...)



OPTOMETRIC CHARTS	Illuminated GIMA code	Not illuminated GIMA code
Armagnac - 5 m	27380	27390
Monoyer - 3 m	27381	27391
Mixed decimal - 3m	27382*	27392*
Children - 3 m	27383	27393
Animals - 5 m	27384	-
Spare Tube 700	27388	-

#### TECHNICAL SPECIFICATIONS

Viewing Area: 24 x 62 cm 24 x 61 cm  
External dimensions: 29.5x67.5x12 cm 29 x 66 x 2.5 cm  
Weight: 6 kg 2 kg  
Power supply: 230 V - 50 Hz (60 Hz on request) only 27380-4  
Other specifications like X-ray illuminators 27364-72

## **Standard viewers and Optotypes**



## ***Instruction and maintenance manual***

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GIMA spa

Via Marconi 1 – 20060 Gessate (MI) – Italia

E-mail: [gima@gimaitaly.com](mailto:gima@gimaitaly.com) – [www.gimaitaly.com](http://www.gimaitaly.com)

Tel.: 02 95 38 541 – Fax: 02 95 38 11 67

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## INTRODUCTION

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Dear Customer,

your choice of our appliance means, for our Company, your particular recognition of the care of our designers, in the achievement of an ergonomic, reliable and pleasant design product.

We would thank you in advance for your choice and we are at your complete disposal for everything you need.



You are kindly requested to pay particular attention to this manual, before using the item, as it contains important recommendations on the correct installation use and maintenance of the product.

Have a good work!

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## PRODUCT DESTINATION

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Our appliance has been suitably designed to obtain the best backlight of the X-ray films to read and value them at one's best.

**This machine must only be used for the purpose for which it was designed.**

**All other uses must be considered dangerous.**

In this case the manufacturer can't be considered responsible for any damage caused by an incorrect use.

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## INFORMATION AND TECHNICAL DATA

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Our appliance doesn't need any kind of maintenance.

In particular, the chassis is made of oven epoxy powder coated aluminium section, that doesn't let the structure become wasted.

Besides, the neon tubes are placed in order to avoid totally any shadow's zone.

**Specifications could be changed anytime.**

Technical data:

CODE	Viewers	Electrical supply	Power	External dimensions mm
BFAL 43.43 OR	1 panel	230V 50-60Hz	30W	430x430x12
BFAL 43.70 OR/VE/OV	1,5 panels	230V 50-60Hz	36W	670x430x12
BFAL 43.90 OR/VE/OV	2 panels	230V 50-60Hz	60W	970x430x12
BFAL 43.120 OR/VE/OV	3 panels	230V 50-60Hz	72W	1270x 430x12
BFAL 43.150 OR/VE/OV	4 panels	230V 50-60Hz	116W	1580x430x12
BFAL 86.120 OR	2 x 3 panels	230V 50-60Hz	2x72W	2 x (1270x430x12)
BFAL 86.150 OR	2 x 4 panels	230V 50-60Hz	2x116W	2 x (1580x430x12)
CODE	Luminous optotypes	Electrical supply	Power	External dimensions mm
BFAL 27.67AL	Mixed decimal 3 mt	230V 50-60Hz	18W	295 x 675 x 12
BFAL 27.67BL	Monoyer 3 mt	230V 50-60Hz	18W	295 x 675 x 12
BFAL 27.67CL	Children 3 mt	230V 50-60Hz	18W	295 x 675 x 12
BFAL 27.67DL	Mixed decimal 5 mt	230V 50-60Hz	18W	295 x 675 x 12
BFAL 27.67EL	Armagnac 5 mt	230V 50-60Hz	18W	295 x 675 x 12
BFAL 27.67FL	Children 5 mt	230V 50-60Hz	18W	295 x 675 x 12



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## PACKAGING HANDLING

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After taking away the packaging, do not leave the different elements (carton boxes, plastic bags, polystyrene, etc.) in the environment and do not leave them in children hands.

Anyway do not throw away the packaging before verifying the correct operation of the device, as in case of giving it back to the supplier, the device has to be put in its own original packaging.

All the different elements of the packaging, have to be handled following the local Directives regarding the disposal of the waste.

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## GENERAL WARNING

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After removing the packaging, check that the product has not been damaged in transit.

In case of doubt, do not attempt to repair or use the machine. Seek advice from a suitably qualified person. Packaging materials (plastic bags, polystyrene rubber, etc.) must be kept away from children, as they could cause harm.

This machine must only be used for the purpose for which it was designed.

All other uses must be considered dangerous.

The safe use of any electrical appliance involves the observance of certain basic rules, in particular:

- do not touch the appliance with damp hands;
- do not use the appliance while bare-foot;
- do not pull the plug from power socket by the power cord of the appliance itself;
- do not expose the appliance to adverse elements (sun, rain, etc.);
- do not let the children use the advice.

The manufacturer can't be considered responsible for damages caused by an incorrect use of the product.

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## SPECIAL WARNINGS

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The electrical safety of this appliance is only guaranteed when it is correctly installed and connected to the earthed system, according to the latest issue of the Regulations Conformity with these requirements must be ensured and, in case of doubt, seek advice from a suitable qualified person.

Our Company can't be held responsible for any damage caused because the appliance has not been installed and earthed correctly.

Besides it is important to respect the following recommendations:

- check that the current carrying capacity of the wirings and socket are suitable for the maximum power of the device as shown on the label. In case of doubt, seek advice from a suitable qualified person
- to avoid dangerous overheating, it is advisable to fully unroll the power cord
- do not leave the appliance plugged in when unnecessarily.

If power cord becomes damaged, replace it promptly with the power cord: EN 60 320-C15 - **outlet** CEI 23-16/VII (SCHUKO CEE 7-S.S. VII).

***The manufacturer can't be considered responsible for any damage caused by an incorrect installation and earthing of the appliance.***

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## OPERATING

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The viewer/optotype has been adjusted and tested in the Factory, and it doesn't need any other adjustment or technical control before operating phase.

To install the appliance take care to the following directions:

1. the viewer/optotype has to be mounted on a steady and straight wall, through suitable bearings placed distant between themselves as the distance of the holes on the back of the advice;
2. do not install the viewer/optotype near the water as it could cause short circuit;
3. do not install the device near heat sources;
4. connect the viewer/optotype to the plug through the supplied power cord, paying attention that it is not damaged;
5. turn on the main switch from O to I;
6. once turned on the switch, place the X-ray under the frame of the viewer.

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## MAINTENANCE / CLEANING

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The viewer/optotype needs no maintenance except for routine cleaning which is easily done because every part is easy to reach.

Before any phase of maintenance, do not leave the appliance plugged.

Do not use any solvent to clean the appliance.

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## GUARANTEE

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We always guarantee our devices for 24 months, from the date of the purchase.

Parts acquired from other manufacturers have the same guarantee that is given us by the manufacturer.

Parts subject to normal wear as plastic parts, glass, neon, starter, etc., are excluded from the gurantee.

Shipping costs are paid by the Customer.

The repairing actions do not modify the expiry date of guarantee.

The Customer must send the device to manufacturer, with a photocopy of the purchase invoice, where is signed the date of the purchase and the appliance number.

Further claims from the purchaser for reimbursement of damages not attributable to the manufacturer, are obviously not taken in consideration.





## DECLARATION OF CONFORMITY



**EC 2007/47, EC 2006/95, EC 2004/108 Directives**

**BIEFFE ITALIA s.r.l.**

declare under our responsibility that the product

### **standard VIEWER**

code BFAL 43.43 OR; BFAL 43.70 OR/VE/OV; BFAL 43.90 OR/VE/OV;  
BFAL 43.120 OR/VE/OV; BFAL 43.150 OR/VE/OV;  
BFAL 86.120 OR; BFAL 86.150 OR

### **luminous OPTOTYPE**

code BFAL 27.67AL; BFAL 27.67BL; BFAL 27.67CL;  
BFAL 27.67DL; BFAL 27.67EL; BFAL 27.67FL

### **non luminous OPTOTYPE**

code BFAL 27.67A; BFAL 27.67B; BFAL 27.67C;  
BFAL 27.67D; BFAL 27.67E; BFAL 27.67F

**is in conformity with the following standards or  
other normative document**

**EC Directive 2007/47** medical device of Class I

**EC Directive Low Voltage 2006/95**

**EC Directive Electromagnetic Compatibility 2004/108**

Striano (NA), January 2015

BIEFFE ITALIA s.r.l.

Dr. Flavio Ferrazzano

# DECLARATION OF CONFORMITY



Annex IV - 745/2017 MDR

## BIEFFE ITALIA s.r.l.

As manufacturer of the products underneath listed, declare under its own responsibility that the products:

BFAL 43.43 OR - BFAL 43.70 OR - BFAL 43.70 OV  
BFAL 43.70 VE - BFAL 43.90 OR - BFAL 43.90 OV  
BFAL 43.90 VE - BFAL 43.120 OR - BFAL 43.120 OV  
BFAL 43.120 VE - BFAL 43.150 OR - BFAL 43.150 OV  
BFAL 43.150 VE - BFAL 86.120 OR - BFAL 86.150 OR

leading to the product family:

## STANDARD VIEWER

**BASIC UDI-DI: 805373671BFAL\_NEGWY**

**are in conformity**

with the essential requirements of the **745/2017 MDR** as Class I medical devices according to Annex VIII, Chapter III, Rule 1 (one).

*Carinaro, 13 May 2021*

BIEFFE ITALIA S.r.l.

Dr. Flavio Ferrazzano

CEO