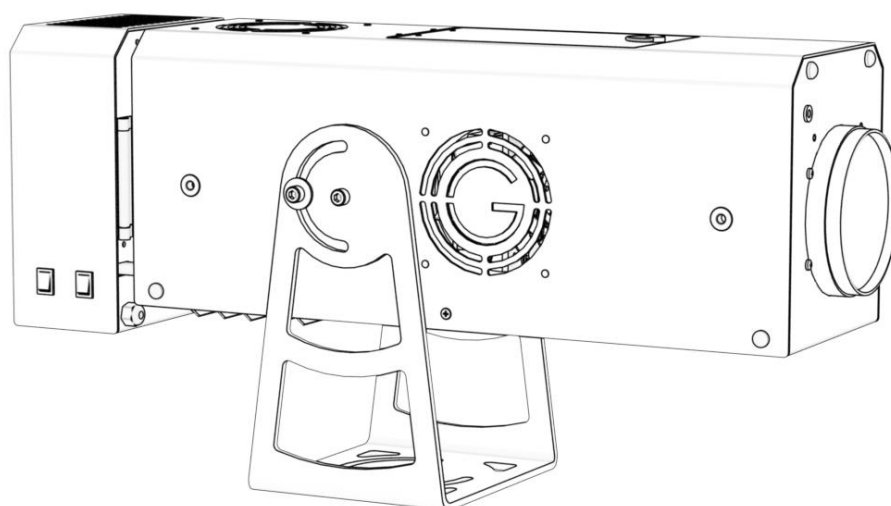


GOBOSERVICE



INSTRUCTION MANUAL

GOLUX 1000

Goboservice by Sunland Optics SRL

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Thank you for choosing our projector! We inform you that this product was designed and realized to guarantee you the best performance and to satisfy as much as possible your expectations and requirements.

Please read carefully each part of this instruction manual before start to use the product and use it each time you have some difficulties or doubt.

The following instruction manual is a key part of this purchasing. It must be carefully stored for a period of not less 10 (ten) years, in a known place and easily accessible to all interested people.

The knowledge and respect of manual contents are essential in order to guarantee the correct and safe installation, use and maintenance of the product.

The Goboservice by Sunland Optics SRL company disclaims all liability for damage to the projector or to other property or persons deriving from installation, use and maintenance that is not carried out in accordance with that reported in this instruction manual, which must always accompany the unit.

Moreover Goboservice by SunlandOptics SRL reserves the right to change the information in this instruction manual at any time and without notice.

SUMMARY

1. SAFETY INFORMATIONS	5
2. PACKAGE CONTENT	7
3. PROJECTOR INSTALLATION	8
3.1. FRONT SIDE VIEW OF PROJECTOR	8
3.2. BACK SIDE VIEW OF PROJECTOR.....	8
3.3. LAMP MOUNTING or SUBSTITUTION	9
3.4. GOBO MOUNTING INSTRUCTIONS	10
3.5. PUT IN FUNCTION DYNAMIC EFFECT	11
3.6. ACCESSORIES POWER SUPPLY	11
4. USE OF PROJECTOR	12
4.1. CONNECTION OF PROJECTOR TO THE MAIN SUPPLY	12
4.2. PROJECTOR ORIENTATION	12
4.3. SIZING AND FOCUSING THE PROJECTED	12
4.4. CONTROL PANEL.....	13
5. THECNICAL DATA	15
6. POSSIBLE PROBLEMS CAUSES AND SOLUTIONS	16
7. DIRECTIVES.....	16
8. DISPOSAL.....	16
9. WARRANTY	17
10. MAINTENANCE HISTORY	18

1. SAFETY INFORMATIONS

Please, read carefully the following safety instructions before do any operations. The product describes in this instructions manual is a lighting fixture for the projection of a light beam. It is used usually to light, with an high level of surface brightness, big areas on which to project decorative effects or fascinating and special logos and images. The projector must be only used for the purpose it was designed and built for. It is suitable to illuminate indoor and outdoor environments, any other use is not approved by the manufacturer and for this reason disclaims any liability for damages resulting from improper or incorrect use. This unit should be disposed of according to your country's regulations regarding the differentiated waste collection and disposal.

1. **INSTALLATION** – Please, pay attention that during installation there is not any hindrance on the place on which the projector has to be installed. For the particular requests, the projector must be attached with dowels or screws or other anchorages suitable with the material to be blocked. Make sure that all parts for fixing the projector are in a good state of repair and check the stability of the point of anchorage before positioning the projector.



2. **MINIMUM DISTANCE OF ILLUMINATED OBJECTS** - The projector must be placed so that the objects hit by the beam of light are at least 5,0 meters from the lens of projector.

3. **MINIMUM DISTANCE FROM FLAMMABLE MATERIALS** -The projector must be placed so that flammable materials are at least 6,0 meters from lenses and 1,0 meter from any other surface point of the projector.

$t_a 45^\circ\text{C}$

4. **MAXIMUM ROOM TEMPERATURE** - Install the projector in a place where there is a good air flow. Please, don't use it in closed or semi-closed environments because this could cause an increase of temperature with a reduction of projector life cycle. For a safe functioning of projector the temperature must not exceed 45°C .



5. **PROTECTION AGAINST INDIRECT CONTACTS** – It is mandatory connect the projector to a main supply system fitted with efficient ground (Class I appliance to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to ground by using appropriately sized residual current devices.

6. **CONNECTION TO MAIN SUPPLY** - Connection to the electricity main must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the projector is designed. Evaluate if the main supply can withstand the absorbed power of projector and, if it is, verify the maximum number of devices that it is possible to connect to the electricity line, in order to avoid overloading.

t_c 60°C

7. **TEMPERATURE OF EXTERNAL SURFACE** – In the thermally steady state, the maximum temperature which can be reached, on the external surface of the product, is 60°C.

8. **PROTECTION RATING** - Direct exposure of the projector to rain, snow, hail or other liquids may damage the product. The projector must be kept away from wet surfaces. **ATTENTION:** The water must not touch the projector when it is connected to the main supply. In order to protect the unit from rain use the accessory RAIN COVER GOLUX.

9. **MAINTENANCE** - Before starting any maintenance work or cleaning the projector, cut off power from the main supply.

ATTENTION: According to guarantee conditions just the lamp substitution is considered an allowed maintenance. If you need to replace the lamp, it is recommended, after turning off the projector, to wait 15 minutes before opening the cover to access the lamp. Now wait another 10 minutes before touching the lamp to avoid burns. The product should never be washed, but should be cleaned on the outside only with a slightly damp cloth. To replace other components (engine, drive circuit or ballast, etc.) please, contact your dealer in order to have more information or some original parts. Do not try to replace defective parts with not original spare parts by yourself.



10. **LAMP** - Carefully read the "operating instructions" provided by the lamp manufacturer. In order to know the supplied lamp please refer to the section PACKAGE CONTENT of this manual. Immediately replace the lamp if it is damaged or deformed by heat.

11. **RISK OF VIEW** – Never look at the beam of the projector directly or without optical instruments which convergence the light.

12. **RESIDUAL RISK** – Even if the product is built according to all rules and precautions, residual risks related to certain structural aspects of product usage could remain. Please, do not disassemble the device. Maintenance should be performed by personal trainer. Do not tamper for any reason the ballast which is sealed for safety reasons and should remain so. If ballast is tampered, this represents a serious danger and in this status the product is no more under warranty. Set the unit in visible areas and pay attention that does not interfere with where people are circulating, the risk of a collision must be minimized if is not possible to eliminate. Do not put the unit in positions where it can fall or be hit by people or animals. Keep children away from the unit when it is working and it is still connected to the main supply. In case of abnormalities of the case or breakage of the packaging that contains bright spare parts, do not turn on the projector and stop the use of the product. Do not install in areas

available to minors or persons who should be affected by the correct or wrong use of the product. The device, if it is not connected to main supply, is not dangerous for people and animals even if exposed to the rain. The projector works with electrical energy at low voltage and that puts it in an area of dangerousness typical of a household appliance; it must be considered, in any case, a lighting box and, therefore, must be adopted during use an appropriate attitude. The device is designed and constructed using all safety criteria and suitable materials to prevent hazards and to minimize risks.

2. PACKAGE CONTENT

When the product is received, please, check that the product is in the perfect condition in all its parts; otherwise contact the manufacturer immediately. Take out parts from the package and check if they have any damage caused by transport. The package should be disposed following your country's regulations regarding the differentiated waste collection and disposal.

- N°1 Projector GOLUX1000
- N°1 Pendrive that contains Manual Instructions and Warranty..
- N°1 Lamp da 1000W (OSRAM Lok-it! HTI 1000/PS).

3. PROJECTOR INSTALLATION

3.1. FRONT SIDE VIEW OF PROJECTOR

The Fig.1 shows the front panel of projector.

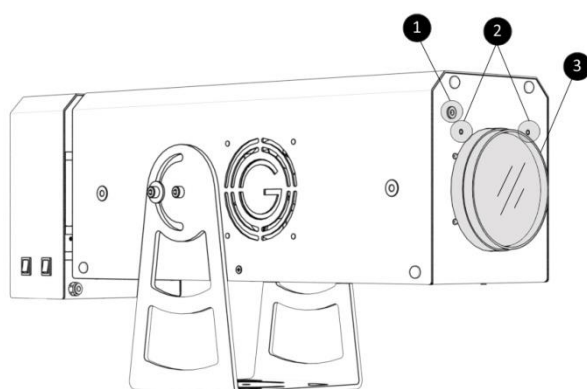


Fig.1

ELEMENT 1 is an OUTPUT (POWER ACCESSORIES) at 12V to use when some external accessories are needed.

ELEMENTS 2 are a pair of holes which are used when the support bracket for external accessories is needed.

ELEMENT 3 is a quality lens camera with a 132 mm optical opening standard.

3.2. BACK SIDE VIEW OF PROJECTOR

Fig.2 shows the rear panel of the projector.

ELEMENT 1 is the out for the power supply cable.

ELEMENT 2 is the switch that controls the power supply of the projector.

ELEMENT 3 is a switch that can enable / disable the power supply of the internal accessories (gobo rotation, rotation dynamic effect, etc.).

ELEMENT 4 is a control panel of the main functions of the projectors.

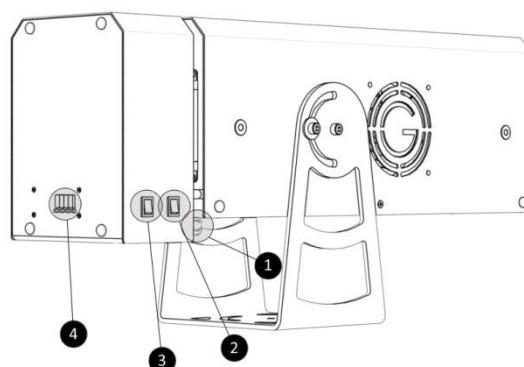


Fig.2

3.3. LAMP MOUNTING OR SUBSTITUTION

For the lamp mounting/substitution is needed to act on the panel that is located at the back side of the main part of the projector.

Provide yourself with a cloth in order to mount the lamp in a proper and functional way.

The steps to follow are:

1. Unscrew the knob of the power of the body mounting plate to the main body of the projector as shown in Fig.3, the power to rotate on the hinge body.
2. Remove the three screws that anchor the holder cover as shown in Figure 4.
3. Turn the lamp counter-clockwise as shown in Figure 5 (handling it with the cloth of which there was previously fitted).
4. Remove the lamp (see Figure 6) and then replace it with the new inserting it into the slot interlocking. Turn it clockwise enough to allow complete and fixing it clicks.
5. Replace the body cap lamp through the three screws removed earlier.
6. Anchor again, using the appropriate knob body the power to the main body

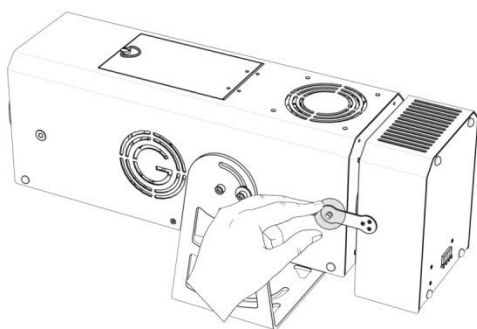


Fig. 3

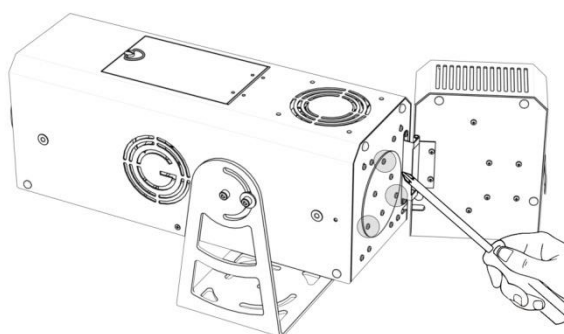


Fig. 4

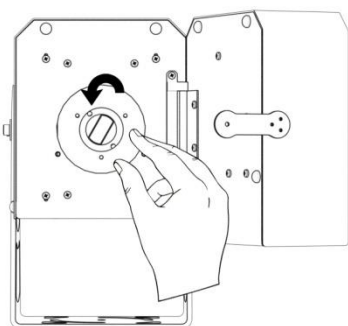


Fig.5

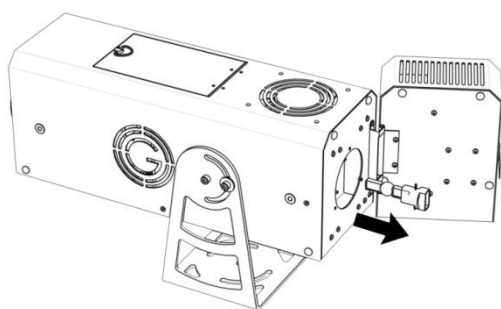


Fig.6

ATTENTION: Please pay attention that the panel that is located at the top of the projector is closed before switch on the projector (the lamp gives off rays that damage the eyes).

The lamp mounting/substitution must be done when the projector is switched off and not connected to the mains supply.

If the lamp must be substituted after the projector usage, wait (about 15 minutes) so that all internal components of projector are cool.

3.4. GOBO MOUNTING INSTRUCTIONS

The gobo has two main parameters that allow its mounting on projector; these parameters (in Fig.7) are:

- l'OD (Outer Diameter) that is the physical gobo diameter;
- l'ID (Inner Diameter) , the diameter of the circle that contains the image to realize.



Fig.7

For GOLUX1000 Projector the gobos must have : **OD = 37,5mm** and **ID = 35mm**. In the case of gobo with special graphics features contact customer service Goboservice (info@goboservice.com) that will point you in the best configuration.

ATTENTION: During gobo installation /substitution into the projector it is necessary placing the gobo so that the REFLECTING SIDE ALWAYS FACING TOWARDS THE LAMP; on contrary THE MATTED (BLACK/GREY) SIDE MUST FACE TOWARDS THE PROJECTOR LENS (Fig.8). This mounting rule allows the correct usage of gobo avoiding its breaking.

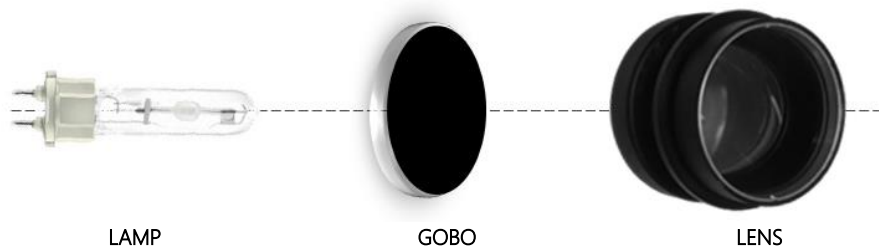


Fig.8

Once you understand the direction of the assembly, open the top cover of the projector turning counter clockwise the locking hook (Fig. 9); remove the spring clip from the gobo support (see Figure 10); insert gobo inside the seat making sure it is well bonded to the substrate (Fig 11); then reinsert the support of the spring clip and then close the top cover of the projector by turning clockwise.

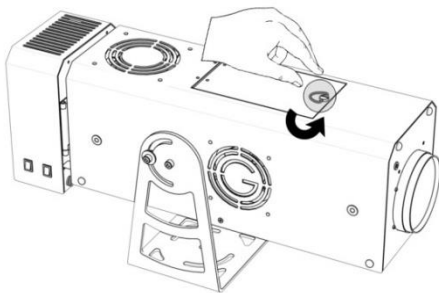


Fig.9

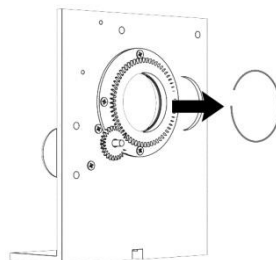


Fig.10

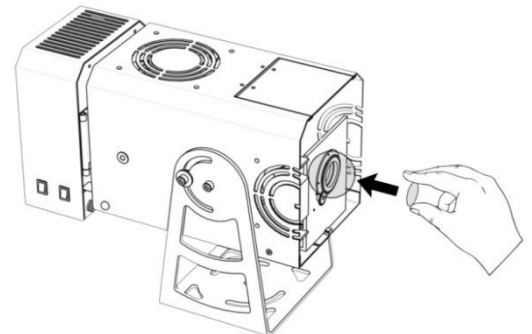


Fig.11

ATTENTION: gobo mounting has to be done taking care that the gobo surface will be not touched, fouled or stained in order to avoid scratches visible on projection; these scratches then, with the heat of projector usage, can also cause the gobo breaking.

The gobo mounting/substitution must be done when the projector is switched off and not connected to the mains supply. If the gobo must be substituted after the projector usage, wait (about 15 minutes) so that all internal components of projector are cool.

3.5. PUT IN FUNCTION DYNAMIC EFFECT

In GOLUX1000 version EFFECT / EFFECT Z GOLUX1000 the Dynamic Effect accessory is installed to replace the gobo support. The accessory consists of two distinct parts:

1. The component 1 (Figure 12) is the part of mechanical accessory, the one that makes the effect possible move.
2. The component 2 (Fig.13) is the wheel effect, namely the effect type of choice (snow effect, musical notes effect, etc.)

Having the component 1 already installed and set up inside the projector, then we see how to mount the *component 2*:

1. Open the top cover of the projector turning counter clockwise the locking hook (Fig 9)
2. From the hub on the *component 1* unscrew the nut, and remove one of the two washers Nylon leaving only inserted in contact with the bracket.
3. Place the component 2 on the component 1 in such a way that the hub of the bracket steps within the bore of the wheel.
4. Re-insert the washer Nylon removed previously and tighten the nut again.

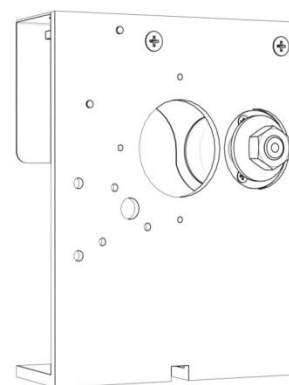


Fig.12

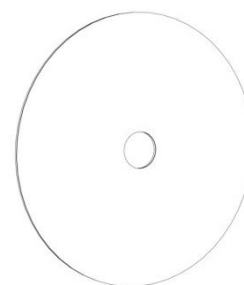


Fig.13

ATTENTION: In these operations it is recommended to use a glove and take particular care to handle the wheel, as fragile piece of equipment.

3.6. ACCESSORIES POWER SUPPLY

If rather than the GOBO HOLDER other internal accessories that need power supply have to be used, it is important verify that their power supply plug is connected to one of the two power connection points available inside the projector and shown in Fig.14. In particular by using the lower pin of the accessory, power is continuous while using the plug top, power supply can be started / suspended by the switch on the rear panel of the projector.

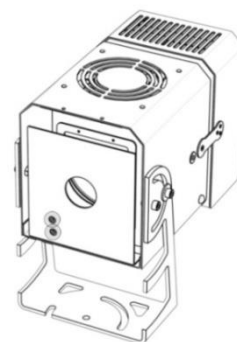


Fig.14

4. USE OF PROJECTOR

4.1. CONNECTION OF PROJECTOR TO THE MAIN SUPPLY

The projector must be connected to the mains supply using the supplied cable. During the connection of projector to the main supply must be followed the standard safety and operating procedures valid for any device that operates at low voltage.

- **ATTENTION:** the power supply must be (230V-50/60Hz) and the main supply must have efficient ground and must be protected by using appropriately sized residual current device with this main electrical features:
- Rated current $I_n = 20 \text{ A}$
- Differential current $I_{\Delta n} = 0,03\text{A}$

When the unit is connected to the mains supply must be avoided the contact with water or other liquids.

4.2. PROJECTOR ORIENTATION

The projector GOLUX1000 can be tilted either upwards or downwards; in order to direct the projector it is enough loosen, on both side, the two special bolts (see Figure 15), put the projector in the desired direction and tighten the bolts again.

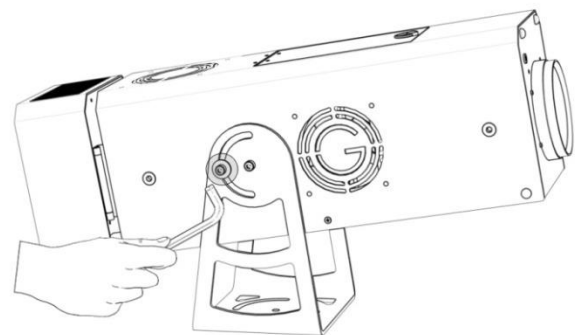


Fig.15

4.3. SIZING AND FOCUSING THE PROJECTED

The focus of the image must be done by acting on the kit of zoom lenses installed on the projector (Fig 16); managing the position of the targets, after they have been loosened from the respective knobs. The objectives are moving on a rail through the use of trolleys

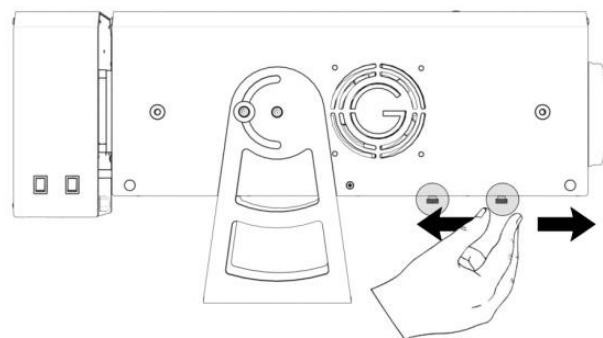


Fig.16

For the versions without the kit of the zoom, the focus adjustment takes place in almost similar way, only difference is given by the number of knobs located on the bottom of the projector, in this case we shall have only one. Here, too, once the knob is loose enough to move on the rail the inner camera until the image does not take a clear look at this point tighten the knob again.

4.4. CONTROL PANEL

The GOLUX1000 projector is equipped with a control panel that allows you to access a number of functions, including the main ones:

- Operating time of the ballast
- Time and number of lamp strikes
- Voltage, current and instantaneous power of the lamp
- Temperatures
- Management DMX Address
- Switching on and off the lamp

These functions can be managed by the following keys:

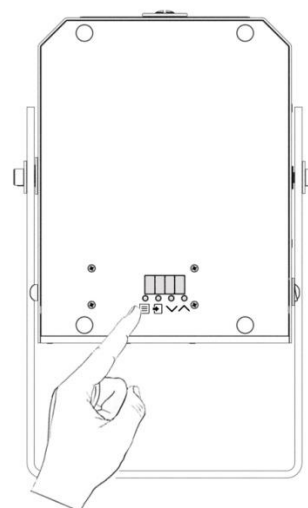


Fig.17

TIME	H.tot		
Life Time	Total Hours ballast		
	M.tot		
	Total minutes ballast		
	H. LAM		
	Total Hours lamp		
	M.LAM		
	Total minutes lamp		
	Acc. L		
	Number of power Lamp		
	CL.L.V. Reset (life and power lamp)	Y.CLr Confirm reset	push C.MEM* during 1 second to confirm
Mon.b. Monitoring ballast	P. out Rated Power	xxxx Power value snapshot	r.xxx Change in val. nominal
	V.out Rated Tension	xxxx Voltage value snapshot	
	I. out Corrente nominale	xxxx Current value snapshot	

	t.PFC Temperature PFC	xxxx Instantaneous value Temperature PFC	M.P.xx MaxTemperature PFC
	t.dCd Temperature DC/DC	xxxx Instantaneous value Temperature DC/DC	M.d.xx MaxTemperature DC/DC
	Id.dr Display and Exchange Remote ID	Selection N° Identification	Push ENTER To confirm
	Ad.dM Change Address DMX	Address Selection DMX	Push ENTER To confirm
LAMP	L.off Turning Off lamp		Push ENTER To confirm
	L.on Turning on lamp		Push ENTER To confirm
VErS	xx.xx Software Version		

The ballast may operate with the signal DMX.

For the management needs 4 channels:

- CH1: ON/OFF 000-128 Lamp On

129-255 Lamp Off

- CH2: DIMMER 000-004 No Effect

005-255 Dimmer from the maximum power at minimum

- CH3: STROBO 000-004 No Effect

005-255 Strobo da 6,5Hz a 35Hz

- CH4: FADE 000-004 No Effect

005-255 Fade time da 13s a 120ms

The Addressed DMX changes from menù Ad.dM → A.xxx

5. THECNICAL DATA

DIMENSION & WEIGHT

Length	74 cm
Width	21,5 cm
Height	35,5 cm
Weight	15 kg

STRUCTURAL DATA

Material	Aluminium
Finishing	Matt
Colour	Black

POWER

Voltage	220/240 Vac - 50/60 Hz
Power	1200 W

LAMP

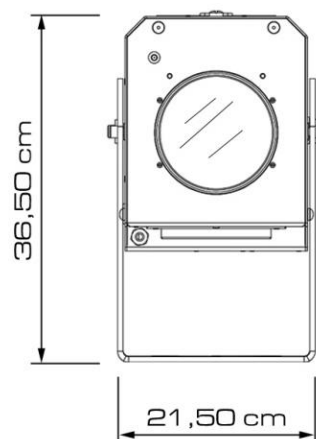
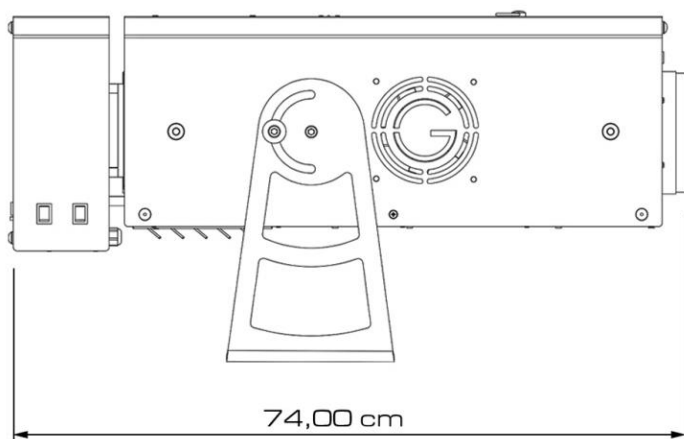
Type	OSRAM Lok-it! HTI 1000/PS
Power	1000 W
Brightness	120.000 lm
Temperature of the colour	6.000 °K
Duration	750 h

PHOTOMETRIC DATA

Projector lightness	50.000 lm
Dimension gobo	OD: 37,5 mm ID: 35 mm
Possible optical	56mm/100mm/Zoom 7,70°-34°

OPTIONAL ACCESSORIES

Gobo holder with rotation	
Dynamic effect	
Kit change Image	5 Gobo [OD:43,2mm – ID:35,0mm]
Shaper	
Stand extensible	
Stirrup	Pole, Wall
Rain cover	



6. POSSIBLE PROBLEMS CAUSES AND SOLUTIONS

ABNORMALITIES	POSSIBLE CAUSES	CONTROL AND SOLUTIONS
The projector does not turn on	No power	Ensure that the power supply is present
The projector turns on but does not emit any light beam	Lamp exhausted or burned out	Lamp Replacement
Reduced brightness	Lamp exhaustion, Accidental displacement of the reflector, dirt of the optical elements, loss optimal calibration lamp	Lamp replacement, calibration of the reflector-lamp system, thorough cleaning of the optical elements or contact customer service
Attack the projector jumps off the breaker line	Magneto-line under dimensioned compared to the characteristics of the projector	Bypass or replace the breaker line
Defective projection	Break of gobo or parable. Dust or dirt deposits	Technical consult, gobo cleaning
The projector beam emits flicker	Attachment defective lamp on the socket	Remove and replace the lamp checking shooting issued by the complete fitting..

In the case where the anomaly does not fall in the above cases, contact a technician.

7. DIRECTIVES



The products to which this manual refers are in compliance with the European Community Directives to which they are subject:

- Low Voltage.
- Electromagnetic compatibility.
- Photobiological Security.

Test carrying out is evidenced by the CE marking on the product and the declaration of conformity.

8. DISPOSAL



The projector must be disposed of in compliance with the applicable laws relating to lighting products. In any case should not be put in normal waste or litter the environment; this action even if prosecuted is a serious threat to animals and people and a source of pollution in the long term. The product may not be treated as a simple urban waste and must be disposed of properly according to the regulations in force concerning the differentiated waste disposal.

9. WARRANTY

The product is warranted under the terms of the law. In case of malfunction during the warranty period, the product will be repaired or replaced according to manufacturer evaluation.

For further information, refer to the terms of warranty on the CD-ROM.

For the use of the warranty are essential the following information:

- The date of purchase (the invoice date applies).
- Detailed description of the problem.

The unit is sent to you in perfect condition. It is important to follow the safety instructions and warnings contained in this manual. Any damage caused by failure of the manual will void the warranty. The manufacturer assumes no responsibility for damage or problems caused by failure of the manual.

Any repairs should be done by the manufacturer, which declines any responsibility for unauthorized access. Dismantling (including partial) of projector that is not made by the manufacturer will void the warranty.

Consumables (such as lamp and fuse) are not covered by the warranty.

Manufacturer reserves the right to modify the content of this manual at any time and without notice.

10. MAINTENANCE HISTORY

Projector Mod.: _____

Date of purchase: _____

Serial Number: _____

Date of first power on: _____

[illegible]

SUPPLIED ACCESSORIES

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

NOTE

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