



**De Sisti Lighting S.p.a.**

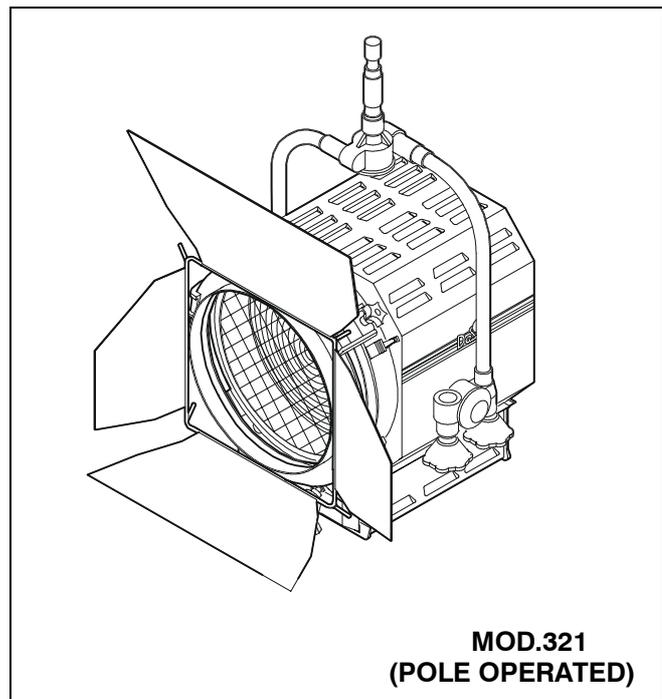
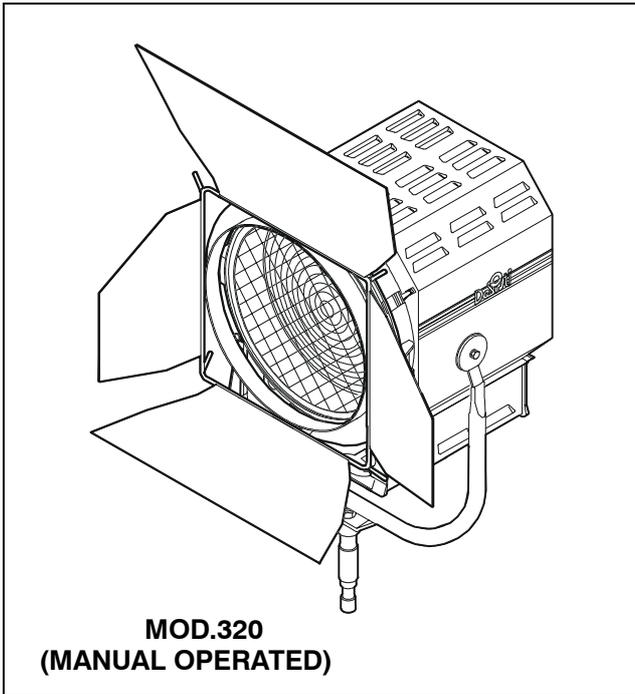
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## **LEONARDO 2.000 W Quartz - Halogen Fresnel SPOTLIGHT** **Standard EN-60598-2-17 Class 1**

### **INSTRUCTION MANUAL**



#### **MANUFACTURER**

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#### **REPRESENTATIVE**

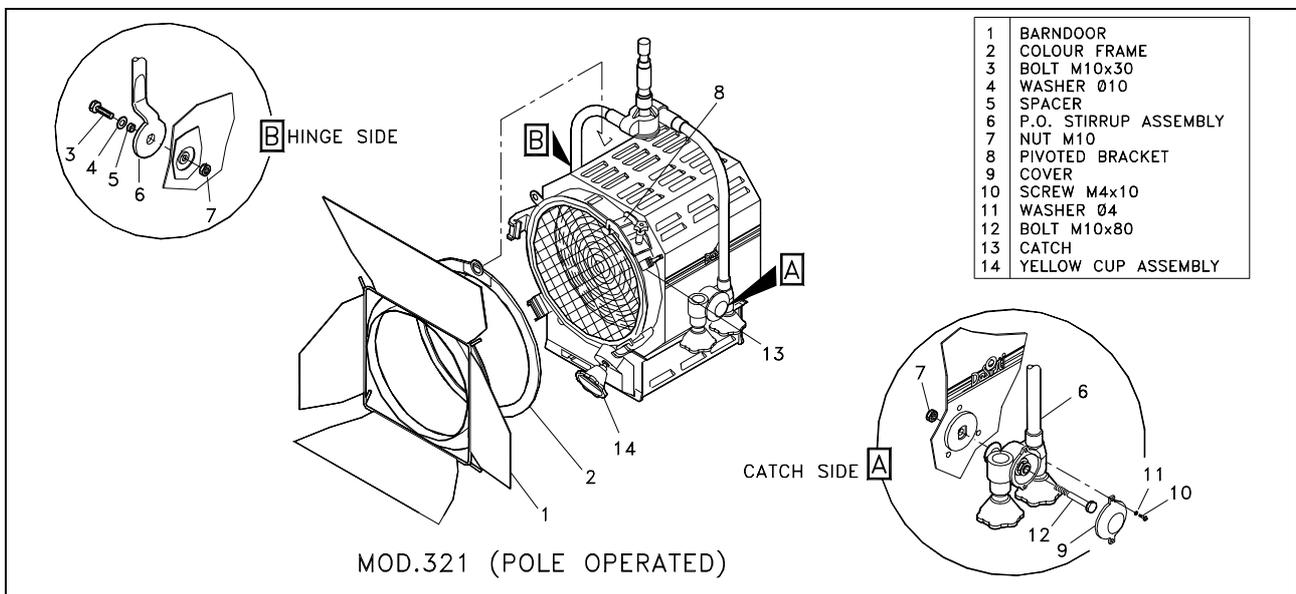
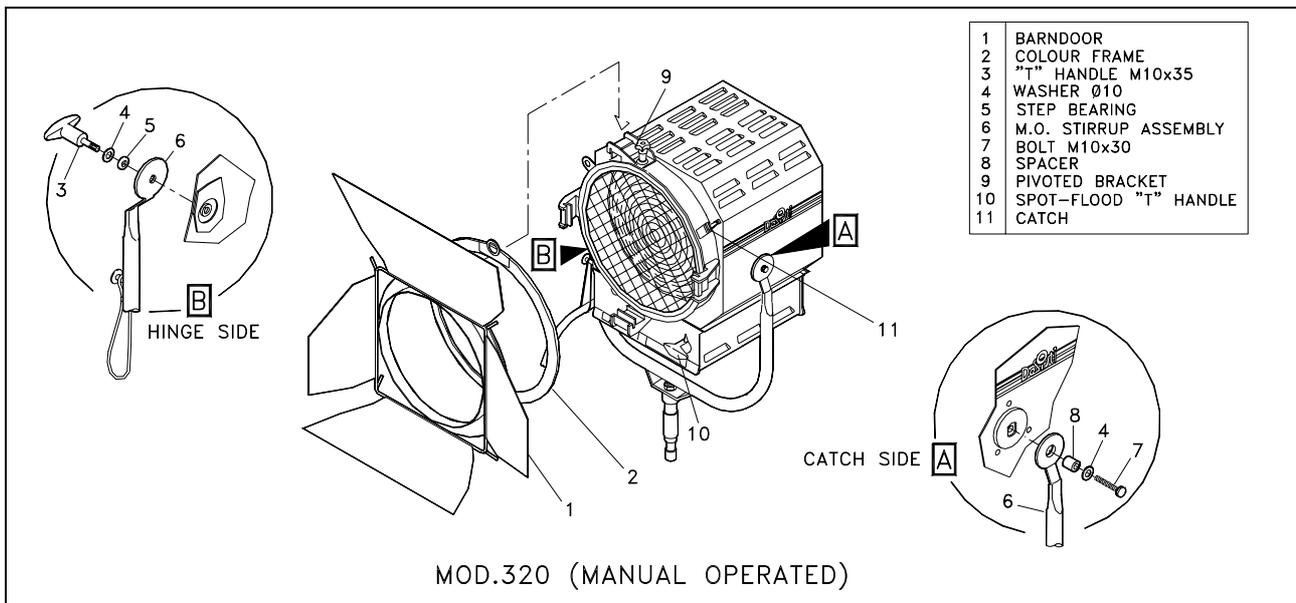
### **1. INTRODUCTION**

Congratulations on your purchase of a LEONARDO 2 kW lighting fixture from De Sisti Lighting, our commitment to Total Customer Satisfaction and a consolidated experience in leading the innovation in the manufacturing of lighting products for the professional Entertainment Industry mean you can depend upon the quality of this product.

The LEONARDO 2 kW is a compact, highly efficient Fresnel lens spotlight using tungsten-quartz-halogen filament lamps having G38 socket, L.C.L. of 127 mm. and max. 2 kW power.

NOTE: also available a version for tungsten-quartz-halogen filament lamps having GY 16 socket, L.C.L. of 70 mm. and max. 2 kW power.

## 2. YOKE AND ACCESSORIES ASSEMBLY



## 3. SAFETY INSTRUCTIONS

- **Professional use:** This luminaire has been designed for professional use and must be operated by qualified personnel only. **Not for residential use.**
- **Grounding: WARNING:** THIS LUMINAIRE MUST BE GROUNDED
- **Electrical connections: IMPORTANT** The cores in this mains lead are colored in accordance with the following code:

	<b>Europe</b>	<b>America</b>
<i>Ground</i>	Green & yellow	Green or green & yellow
<i>Neutral</i>	Blue	White
<i>Live</i>	Brown	Black

In case the colors of the cores do not correspond to the colors of the connection points on your plug, please proceed as follows:

- the green or green and yellow core must be connected to the connection point marked with the letter E or with the symbol  or colored in green or in green - yellow;
- the blue (or white) core must be connected to the connection point marked with the letter N or colored in black;
- the brown (or black) core must be connected to the connection point marked with the letter L or colored in red.

**Working conditions**

↻ Insertion time	100%			
↻ Working Position	Lighting fixture: Max. Tilting $\pm 90^\circ$ from horizontal		Lamp: S90	
↻ Ambient Temperature, $t_a$	-20° C ÷ +45° C			
↻ Humidity	Not condensing			
↻ Minimum distances from inflammable surfaces	<b>Top</b>	<b>Back</b>	<b>Sides</b>	<b>Front</b>
	0,3 m.	0,2 m.	0,2 m.	2,5 m.

The luminaire should never be OPERATED close to inflammable materials. The ones indicated in the above table are the minimum distances recommended. Other requirements for safe use are:

- A. Do not cover the apertures of the luminaire housing. They are essential for correct ventilation. Do not use on the floor. It reduces the ventilation.
- B. Use only original accessories and spares from De Sisti Lighting.
- C. Before hanging the luminaire ensure that the suspension point (or the stand) is properly rated to accept the luminaire weight.
- D. In case of pole operated use, fit only a P.O. stirrup from De Sisti Lighting.
- E. A suitable secondary safety suspension device (safety cable, chain or equivalent) must be fitted between the suspension point and stirrup.
- F. Don` t use the luminaire in an environment where the ambient temperature is higher than the maximum nominal one,  $t_a$ , indicating the rating.

#### 4. INSTALLATION INSTRUCTIONS

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Before connecting the luminaire to the electrical mains ensure that:

- A - Earth line is present on the power socket.
- B - The mains voltage is within the rated range of the luminaire (see technical data on the rating label)
- C - The lamp fitted:
  - ↻ is among the recommended lamps (see De Sisti Lighting catalogue or contact your De Sisti dealer)
  - ↻ has the same nominal voltage as the mains supply
  - ↻ has a nominal power not higher than maximum power of the luminaire
 NB: the luminaire nominal frequency rate is 0 - 60 Hz.
- D - The front safety shields against the lamp explosion are present and in good condition. Depending on luminaire type these items may consist of:
  - ↻ wire mesh guard 3 mm x 3 mm
  - ↻ safety or dichroic glass plus wire guard 12 mm x 12 mm
  - ↻ Fresnel lens plus wire guard 25 mm x 25 mm.

Shields, lenses safety or dichroic glasses shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches.

**ON NO OCCASION SHOULD THE LUMINAIRE BE USED WITHOUT THE ABOVE MENTIONED PROTECTION.**

#### 5. LAMP INSTALLATION AND REPLACEMENT

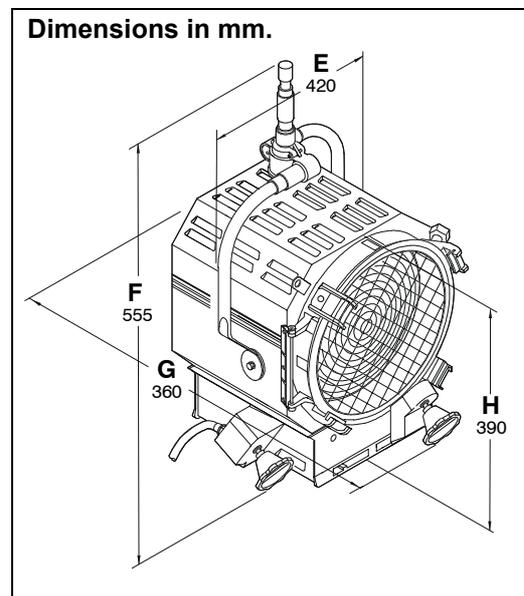
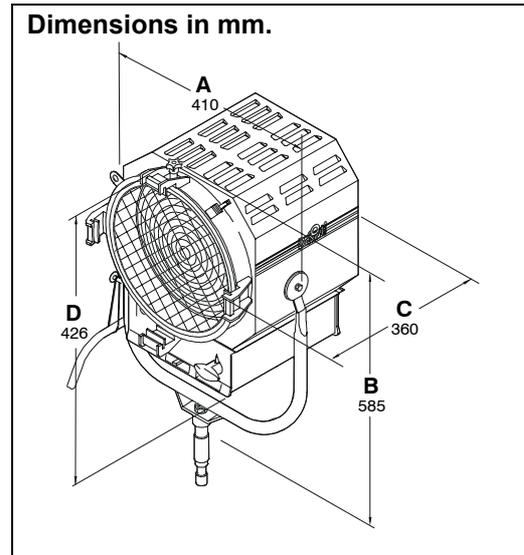
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The following procedure should be adopted:

- A - Ensure the luminaire is electrically isolated from the power supply.
- B - WAIT LEAST 5 MINUTES FROM SWITCHING OFF to avoid risk of injury from possible lamp explosion. Then open lens door or remove the safety mesh and / or glass.  
WARNING: AFTER THE ABOVE MENTIONED TIME THE LAMP MAY STILL BE VERY HOT, USE PROPER THERMAL PROTECTION (EG. GLOVES).
- C - Check that the new lamp is of the correct type.
- D - Replace the lamp taking good note of the following:
  - do not touch the bulb with bare-hands; oil and grease can contaminate the bulb surface and then reduce the performance and the lamp life.
  - the plastic cover which protects the lamp should not be removed until after fitting.
  - should the bulb become dirty due to hand contact or for any other reason, it can be cleaned with a cloth moistened with alcohol.
- E - Ensure that any safety device that has been removed is refitted correctly or that the lens door is securely closed.

## 6. CHARACTERISTICS AND PERFORMANCE DATA

DESCRIPTION	VALUE		
➤ Power Input	Max. 2.000W		
➤ Power supply	<b>Europe</b>		<b>America</b>
	230 V / 50 Hz		110 V / 60 Hz
➤ Switch on the fixture	<b>M.O.</b>	<b>P.O.</b>	<b>Studio M.O. / P.O.</b>
	<b>TOGGLE 20 A</b>	<b>ROTARY 25 A</b>	<b>No Switch</b>
➤ Lamp Holder	<b>Standard version</b>		<b>Special version</b>
	G38 Lever Type		GY 16 Spring Type
➤ Power Cable	<b>Europe</b>		<b>America</b>
	3 x 2,5 mm <sup>2</sup> H07RN-F 90° C rating		3 x 14 AWG TYPE SO 90° C rating
➤ Protection Class	Class 1 – it requires ground connection		
➤ Protection Type	IP 22		
➤ Max. Housing Surface Temperature	220° C		
➤ Weight of Fixture	<b>M.O.</b>	<b>P.O.</b>	
	12 kg.	13,3 kg.	
➤ Weight of Barndoor	<b>4 leaf</b>	<b>8 leaf</b>	
	1,4 kg.	1,65 kg.	
➤ Barndoor support diameter	313 mm.		
➤ Weight of color frame	0,28 kg.		
➤ Accessories support diameter (filter cut dimension and scrims size)	305 mm.		
➤ Lens diameter	250 mm.		



## 7. PERIODIC INSPECTION

- The condition of the internal wiring insulation and of the input cable shall be inspected and tested every 500 working hours and at least once a year. This frequency may need to be increased if rough or unknown (eg. rental) treatment is incurred. Replace only with original De Sisti Lighting spare parts. Non-original cables may not withstand the thermal and mechanical conditions of use
- The lamp condition must be checked every 100 working hours. In order to avoid explosion the lamp should be changed if it has become damaged or deformed. Follow the instructions supplied by the lamp manufacturer.
- Check the condition of the safety shield (see chapter 4: Installation Instructions, point D) before every use.

## 8. SAFETY STANDARDS

<b>Europe:</b> This product conforms the Applicable European Directives and Standards as listed below:	<b>America: the product conforms NEC</b>
➤ Machine Directive: <b>89/392/EEC (as amended by 91/368/EEC, 93/44/EEC, 93/68/EEC)</b>	UL Standard 1573 Approved by UL: file E116219
➤ Low Voltage Directive: <b>73/23/EEC (as amended by 93/68/EEC)</b>	
➤ EMC Directive: <b>89/336/EEC (as amended by 93/68/EEC)</b>	
➤ European Standards: <b>EN 60598-2-17, EN 292-1, EN 292-2</b>	