

# **coemar**

## **testa 2500**

**manuale  
di istruzioni  
instruction  
manual**

# testa 2500

numero di serie/serial number

data di acquisto/date of purchase

fornitore/retailer

indirizzo/address

cap/città/suburb

provincia/capital city

stato/state

tel./fax/

Prendete nota, nello spazio apposito, dei dati relativi al modello e al rivenditore del vostro **testa 2500**: questi dati ci permetteranno di assistervi con la massima rapidità e precisione.

*Please note in the space provided above the relative service information of the model and the retailer from whom you purchased your **testa 2500**: This information will assist us in answering any technical enquiries with the utmost speed and accuracy.*

**ATTENZIONE:** la sicurezza dell'apparecchio è garantita solo con l'uso appropriato delle presenti istruzioni, pertanto è necessario conservarle.

**WARNING:** the security of the fixture is granted only if these instructions are strictly followed; therefore it is absolutely necessary to keep this manual.

The **testa 2500** followspot is ideal for TV studios, concerts, theatres and discotheques. This leaflet is included to give an advice on installation, use and maintenance to ensure the optimum performance for the life of the followspot.

### SPECIFICATION

The **testa 2500** is a compact followspot using the Osram HTI 2500 W/SE lamp and has a field angle from 7° to 13.5°.

The **testa 2500** is suitable for throws from 20m up to 70m, and it is fitted with an iris and mechanical dimmer.



### UNPACKING

#### \* check for damage

Take care when unpacking that all the parts included in the box are undamaged. In case of transportation damage inform your forwarder in writing immediately.

#### \* packing list

check that all of the following items are included in the box :

1 **testa 2500**

1 iris diaphragm

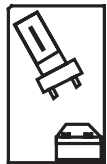
4 shutter blades

1 ballast **testa 2500**

#### \* type of lamp

The **testa 2500** uses a discharge lamp produced by Osram (**Coemar** code 105246/1).

HTI 2500 W/SE lamp base G22, 240000 lumens, 6000° K, 600 hrs, efficiency 96lm/w.



### FITTING LAMP

**isolate luminaire from both poles of the main supply before opening the surface temperature of the luminaire reaches 180° C after 5 minutes and has a maximum steady-state temperature of 200° C.**

Ensure the lamp is cold before attempting to remove it. The luminaire can only be opened 10 minutes after mains supply disconnection.

#### \* release the lamp tray

a captive screw fastener is fitted beneath the **testa 2500** to lock the lamp tray in position. Unscrew the knob until is free, and gently pull it down to lower the lamp tray. As soon as the tray is released, the safety switch will automatically disconnect both poles of the mains supply to the lamp.

#### \* handle the lamp with care

Treat the HTI lamp with care: it operates with a high internal pressure and there is a slight risk of explosion if it is used beyond its rated life of 500 hours. The lamp should be replaced after the period indicated. **DO NOT** touch the quartz glass envelope of the lamp without using the protective cover provided.

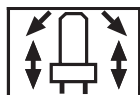
#### \* install the lamp correctly

The G22 lampholder is symmetrical which allows to easy fit the lamp. You may experience some difficulty in fitting the lamp. Apply force on both sides of the lamp base evenly: never apply any force to the glass envelope of the lamp.

Locate the wire terminal on the lamp thread and ensuring that the nut is firmly secured to avoid it loosening during operation.

#### \* close the lamptray carefully

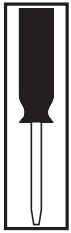
do not slam the lamptray when closing it: this can cause lamp damage.



#### \* center the lamp

To center the lamp fix one of the M4 screws on the bottom of the lamp tray. (See figure)

## English



### ELECTRICAL CONNECTION

#### \* prepare the cable with care

Heat and fire resistant mains cable, VDE approved which conforms to the latest international safety regulation is fitted. Note: this cable may only be replaced with similar high-temperature cable (3x2,5 cable, 10 mm. external  $\varnothing$ , voltage 300/500V, testing voltage 2KV, min/max temperature  $-40^{\circ} +180^{\circ}$ . **Coemar** stk.n. CV5331).

#### \* power requirements

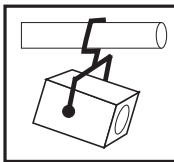
The **testa 2500** requires a power supply capable of at least 15 Amps to accommodate the starting current. After a few moments, this reduces to a steady-state current of 8.5 Amps. The power factor is 0.6

#### \*wiring the ballast unit

The ballast unit is supplied with a fix mains cable, and this should be connected to the mains supply using a suitably-rated plug. Ensure that the earth connection is correctly terminated. The **testa 2500** can be used only with the ballast supplied.

#### \* frequency switch

The ballast is fitted with a switch to select the frequency of the mains supply, and it should be checked to ensure the correct setting. If the followspot is used with the switch in the wrong position, power to the lamp will be increased or reduced by about 20%, and the lamp life will shorten considerably.



### INSTALLATION

There are several operator-adjustable features which should be checked before the **testa 2500** is used.

#### \* lamp

The beam quality is directly related to the position of the arc in the optical system. If the lamp is slightly off-centre, the beam can appear patchy and discoloured, and the operation of the iris and dimmer is impeded. To adjust the lamp, switch on the followspot to full power, and wait until the lamp has reached full brightness (about 5 minutes). Direct the beam onto a flat surface about 8/10 metres from the spotlight. Move the lens to the rear, so that the beam is completely out of focus. Reduce the iris to about half. The arc will be seen as a single bar, and this should be in the centre of the beam. If this is not the case, adjust the position of the lampholder by loosening or tightening each of the two M4 Allen screws under the lampholder pod until the arc is correctly centred.

#### \* tilt friction

The stirrup is fitted with fixing screws on both sides. One of them is a large T-bar knob which used to lock the spotlight in place. The corresponding screw on the other side is pre-set to give to the followspot the tilt movement of  $\pm 45^{\circ}$

#### \* balance

The point of balance is variable on the **testa 2500** to take account of the addition of a colour change unit on the front. To re-balance the spotlight, first ensure that the body is locked in a horizontal position by tightening the T-bar knob and also the pan movement of the stand. Using a 17mm ring spanner, loosen the two pivot bolts until the body is free to move in the guide slots. Take care that the spotlight is supported, as it may be necessary to move the fixing across the gap at the gate between the two body sections, and if the spotlight is not properly supported it could prove too heavy to hold. Adjust the position of the pivot, slacken the tilt lock and check for balance. Repeat the process until the best balance point is achieved. Retighten the pivot bolts, ensuring that they are both fully tightened.

#### \* pan movement

The friction for the pan movement is set by the main clamp beneath the height locking ring.

### \* mounting on tripod

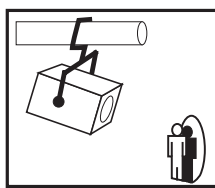
The **testa 2500** is supplied with a spigot adaptor which is bolted onto the mounting stirrup. The stirrup is designed to give a smooth and positive up/down movement. The pan movement (left/right) relies on the middle joint of the tripod stand, and we therefore strongly recommend the use of the **Coemar** Followspot Stand (code n. 8002) which incorporates a neoprene collar to give a smooth pan movement.

Before to place the **testa 2500** on its stand, ensure that the tripod legs are fully extended, and locked into a stable position. Then raise the central tube until it is at the height required by the followspot operator. Lock the collar onto the tube so that the tube is free to rotate on the neoprene washer at the top of the main clamp block. The **testa 2500** should be mounted on the tripod with the spigot locked into the first tube, so that the pan movement is regulated by the friction provided by the main clamp block.



### \* eliminate fire hazard

please remember that any theatre luminaire produces heat, and therefore it must be located in a well-ventilated position. Minimum distance from flammable materials: 0,5 m. Minimum distance between light source and object: 4 m.



## OPERATION

### \* switch on/standby

A three-position switch at the rear of the followspot selects full power, half power or off. Full power should be selected only whilst the spotlight is in use; during dormant periods half power is recommended to reduce internal temperatures and to extend the life of the iris and dimmer. Between periods of use, close the dimmer fully, open the iris, and switch to the 50% standby position. Switch back to full power just before the cue. The **testa 2500** boosts to full power instantaneously and silently. The cooling fan is powered directly from the ballast, so that whenever power is applied to the ballast, the fan is running whether the lamp is ignited or not. It is advisable to keep the fan running for a short period after the lamp has been extinguished to assist the cooling cycle.

### \* ballast

The ballast may be situated wherever it is convenient; providing there is sufficient ventilation, and that the cable between the spotlight and ballast allows sufficient movement for the followspot.

### \* focus

Followspots are used either with a sharp or a soft edge. Adjust both knobs located at each side of the lens tube in order to obtain a correct focus of the beam.

### \* iris

The iris is included to reduce the diameter of the spot whilst maintaining the same intensity of illumination. The iris is fitted with a long lever for smooth variations in beam diameter whilst the spot is moving. The iris and dimmer controls operate in the same direction, and can be used together for a subtle move-closedown-dim action. If the iris is reduced to its smallest diameter at the end of a cue, close the dimmer fully (blackout) and re-open the iris to reduce the risk of damage to the iris leaves through overheating.

### \* dimmer

The mechanical dimmer is a black-out iris placed in a non-focused point of the optical path. The dimmer provides a smooth dim, with a constant colour temperature, from full power to blackout. The control is placed so that it can be used in conjunction with the iris control.

### \* zoom lens

The **testa 2500** is fitted with two high definition lenses which allow to vary the beam angle from 7° to 13,5°. Loosen knobs located on the right side of the followspot and set the beam angle required.

### \* colour changer

An optional 5 colours colour change unit is fitted with a device which automatically releases the colour selected. Before fitting it, make sure that the tilt lock is tight to prevent the extra weight of the colour unit from making the balance unstable. Fit the colour unit into the guide slots located on the front part of the followspot and ensure that it is locked by the fixing clips.

## English

### \* filters

Each colour frame takes a circular piece of colour filter 150mm in diameter. A high temperature filter such as Rosco SuperGel is recommended. Filter should be added or exchanged when the colour unit is removed from the spotlight. Push all the frames into the housing except the one to be re-coloured. Taking a screwdriver, remove two of the clips, and slacken the third clip. The piece of filter is then sandwiched between the two support rings, and the filter and rings are replaced and held in position by three clips. Note: the rings can be used as templates to cut the filter to the exact size.

### \* re-balancing

Depending on the position of the pivot point before and after the colour unit is fitted, the **testa 2500** will be either balanced or front-heavy. To correct the balance point, refer to the notes on balancing given in these instructions leaflet.

## ROUTINE MAINTENANCE

### \* safety

Every effort has been made to ensure the safe operation of the **testa 2500** followspot. However, it is always important to observe safety precautions when using this equipment.

- Shields and lenses 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
- The lamp shall be changed if it has become damaged or thermally deformed
- Check the movement of shutter blades (if fitted) and replace when necessary.
- Check the electrical connection regularly, in particular the earth connection
- Check for any damage. If needed, replace any damaged components

### \* cleaning lens and reflector

- Even a fine layer of dust can reduce the luminous output substantially. Regularly clean all lenses and the reflector using a soft cotton cloth, dampened with a specialised lens cleaning solution.

## LAMP LIST

The **testa 2500** followspot will accept only a Osram HTI 2500 W/SE lamp with G22 base lamp (Coemar code 105246/1).

## SPARE PARTS

All parts for the **testa 2500** are available on request.



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