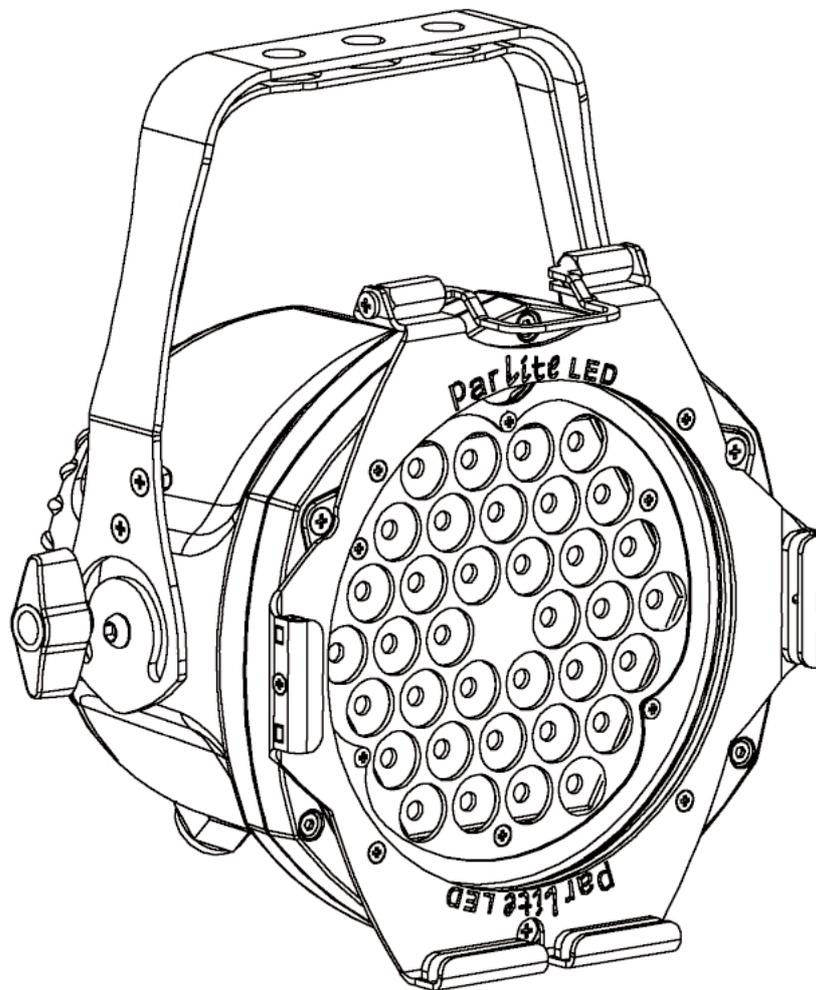


par *lite* LED White



manuale di istruzioni instructions manual

Version 1.0

par *Lite* LED White

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 **Par Lite Led White**: 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 **Par Lite Led White**: this information will assist us in providing spare parts, repairs or 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.

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English

Congratulations on having purchased a **Coemar** product. You have assured yourself of a fixture of the highest quality, both in componentry and in the technology used. We renew our invitation to you to complete the service information on the previous page, to expedite any request for service information or spares (in case of problems encountered either during, or subsequent to, installation). This information will assist in providing prompt and accurate advice from your **Coemar** service centre.

1. Packaging and transportation

Following the instructions and procedures outlined in this manual will ensure the maximum efficiency of this product for years to come.

1.1. Packaging

Open the packaging and ensure that no part of the equipment has suffered damage in transit. In case of damage to the equipment, contact your carrier immediately by telephone or fax, following this with formal notification in writing.

Packing list

Ensure the packaging contains:

- 1 Par Lite Led White
- 1 Instruction manual

1.2. Transportation

The **Par Lite Led White White** should be transported in either its original packaging or in an appropriate flight case.

2. General information

2.1. Important safety information

Fire prevention:

1. Never locate the fixture on a flammable surface.
2. Minimum distance from flammable materials: 0.5 m.
3. Minimum distance from the closest illuminable surface: 0,5 m.
4. Replace any blown or damaged fuses only with those of identical values. Refer to the schematic diagram if there is any doubt.
5. Connect the projector to mains power via a thermal magnetic circuit breaker.

Prevention against electric shock:

1. High voltage is present in the internal of the unit. Isolate the projector from mains supply prior to performing any function which involves touching the internal of the unit.
2. For mains connection, adhere strictly to the guidelines outlined in this manual.
3. The level of technology inherent in the **Par Lite Led White** requires the use of specialised personnel for all service applications; refer all work to your authorised **Coemar** service centre.
4. A good earth connection is essential for proper functioning of the projector. Never operate the unit without proper earth connection.
5. The mains cable should not come into contact with other cabling.
6. Never handle the unit with wet hands or in a damp environment.

Safety:

1. The projector should always be installed with bolts, clamps, and other fixings which are suitably rated to support the weight of the unit.
2. Always use a secondary safety chain of a suitable rating to sustain the weight of the unit in case of the failure of the primary fixing point.
3. Never install the fixture in an enclosed area lacking sufficient air flow; the ambient temperature should not exceed 35°C.
4. The external surface of the unit, at various points, may exceed 80°C. Never handle the unit until at least 10 minutes have elapsed since the unit was turned off.

Protection rating of the body against liquids and solids:

1. The standard version of the fixture is classified ordinary apparatus; its protection grade against penetration by external agents, solid or liquid, is **IP 20**
2. The IP version of the projector has an **IP 66** protection rating; this indicates that it is protected against dust and significant showers of water. This protection rating allows the fixture to be installed in an exposed location in inclement weather.

2.2. Warranty conditions

1. The fixture is guaranteed for a period of 36 months against manufacturing faults and faulty materials.
2. Faults due to incorrect operation or operation in an inappropriate manner are not covered by the warranty.
3. The warranty is immediately void if the fixture has been operated or serviced by unqualified or unauthorised personnel.
4. The warranty does not include fixture replacement.
5. The model and serial numbers must be supplied for any warranty claims or advice from our authorised service personnel.

2.3. CE Certification



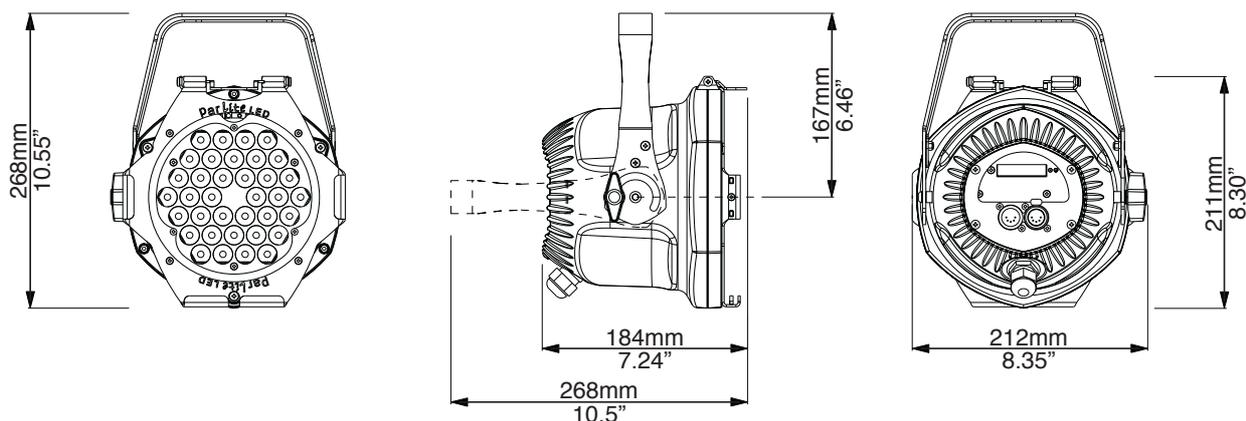
1. The fixture satisfies the essential requirements of the directive EMC 89/336/EEC, 93/68/EEC, BT73/23/EEC.
2. The fixture is conform to UL STD 1573 and certified CSA STD C22.2/166.
2. The fixture is in accordance with the standard EN 50419 (RoHS) and satisfies the requirements of the directive 2002/96/EC (WEEE).

3. Product specifications

3.1. Technical characteristics

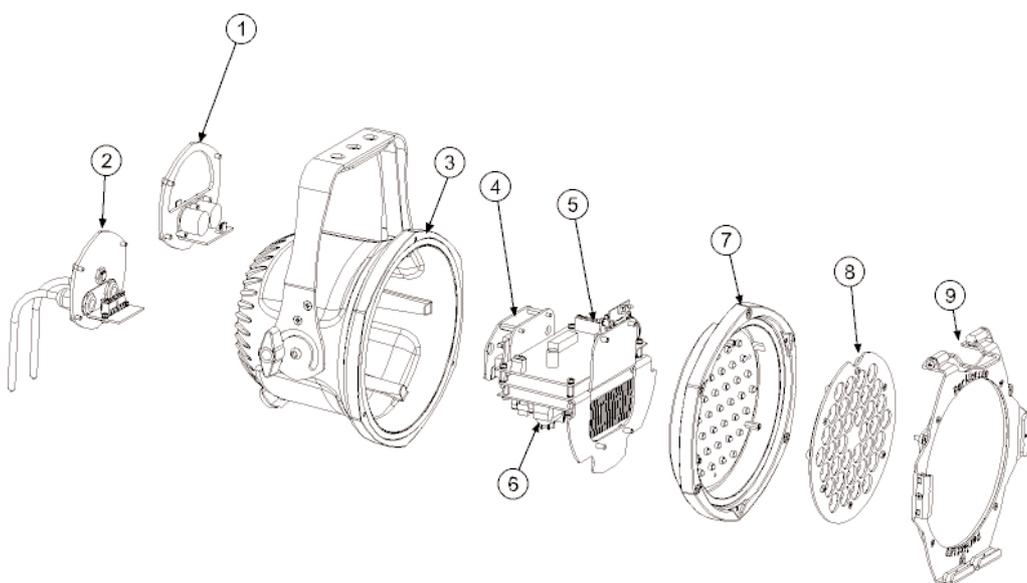
| | |
|------------------------------|--|
| Power: | 90/240 Vac 50/60Hz Autosensing |
| Nominal current: | 0.2A @ 230Vac 0.5A @ 115V |
| Power factor: | $\cos \varphi = 0.8$ |
| Led power: | 36 Led x 1W |
| Minimum ambient temperature: | -15°C / 5°F |
| Maximum ambient temperature: | 35°C / 95°F |
| Weight: | 3.6 Kg / 7.9 lbs |
| IP Rating: | IP20 (standard version) IP66 (IP version) |

3.2. Dimensions



3.3. Projector components

The principal components of the **Par Lite Led White** are shown in the diagram below.



Components description

1. IP20 rear panel
2. IP66 rear panel
3. Projector body
4. Dip-switch panel
5. Led control PCB
6. Switching power supply
7. Head
8. Lens group
9. Front frame (optional)

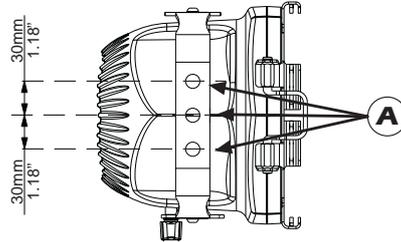
4. Installation

4.1. Mechanical installation

Par Lite Led White may be floor mounted or hung from an appropriate structure in any position.

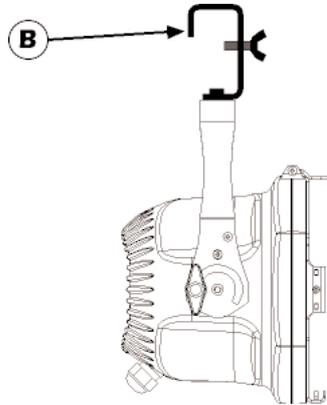
Permanent installation

Use the three holes "A" (Ø13) on the yoke of the **Par Lite Led White** for robust, permanent installation.



Mobile installations

If hanging the fixture from a lighting truss or similar, we recommend the use of appropriate clamps "B", affixed to the yoke in the holes "A" provided, as shown in the following diagram.



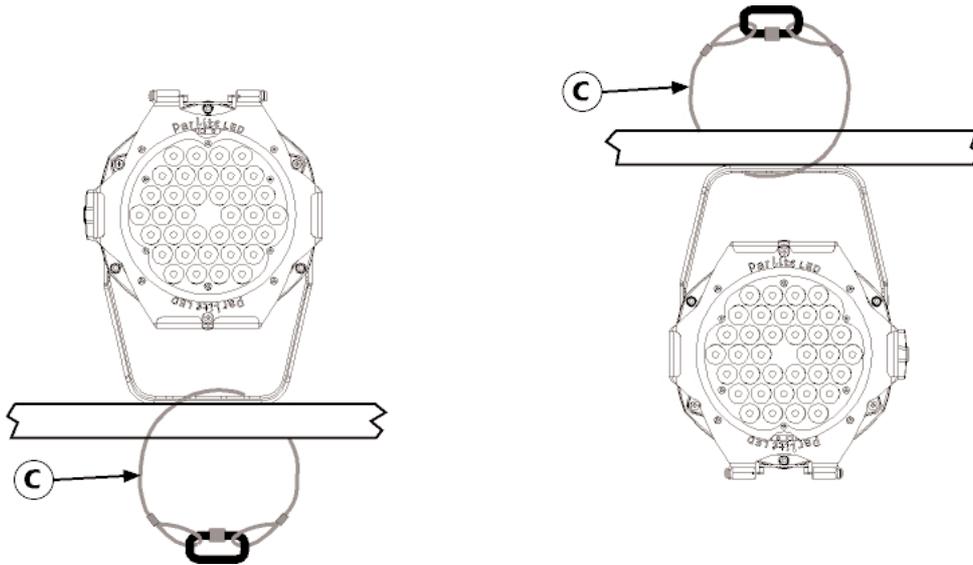
ATTENTION!!

Always ensure that your support structure and fixings (bolts, clamps, etc.) are rated to support the weight of the fixture.

Never install the fixture in a position in an accessible position to personnel who may ignore or be unaware of the safety directions mentioned in this manual.

4.2. Safety chain

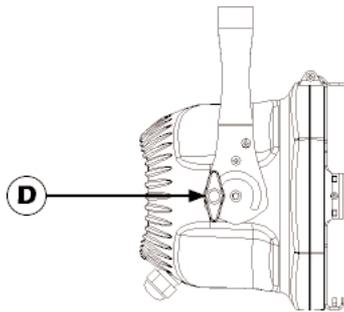
When hanging the **Par Lite Led White** we recommend the use of a safety chain "C" affixed to the yoke and to the suspension device. The safety chain should be either a metal wire rope or a metal chain, both suitably rated for the purpose.



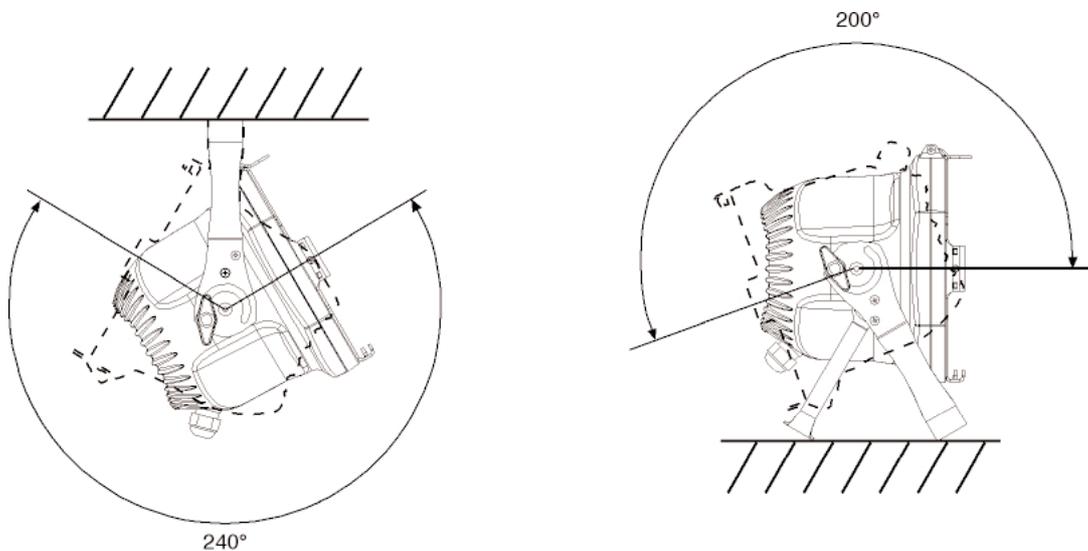
4.3. Adjusting beam direction

The **Par Lite Led White** can be tilted to adjust the beam output. To perform this adjustment, follow the instructions set out below.

1. Loosen the handle "D" located on the side of the projector, thus allowing the inclination to be changed.



2. Adjust the projector's tilt.



3. Refasten the handle "D" on the side of the projector.

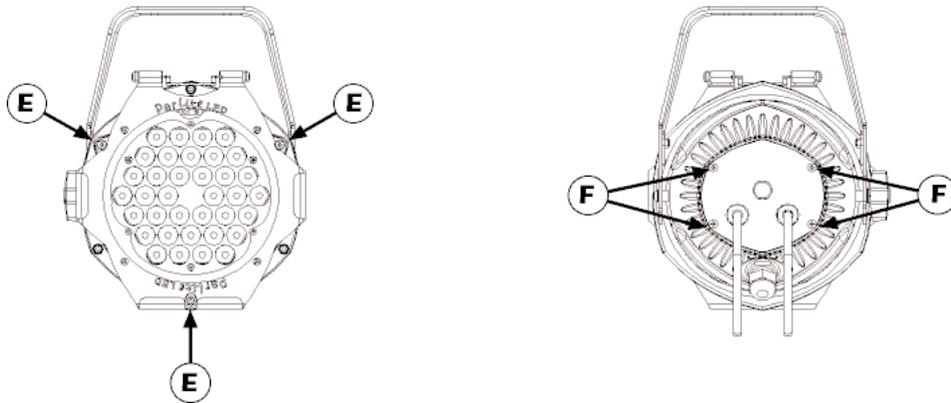
English

4.4. Opening and closing up the projector

The various procedures which follow can only be performed with the projector housing removed.

To gain access to the internal of the projector use a suitable screwdriver to remove the 3 screws "E" which affix the front frame and remove it.

In the IP version, to access the rear area (switch panel), fully untighten the 4 screws "F" that fix of the rear panel and remove it from the unit.



You should now have complete access to the internal of the projector and can proceed to carry out the procedures described below. Close the unit by following the previous points the other way round.

ATTENTION!!

Remove mains power prior to opening up the projector.

**In the IP version, before close up the unit, check that the garnishings are inserted in their places.
Both screws "E" and "F" must be uniformly fixed, screwing them alternately in short steps.**

4.5. Adjusting the beam angle

Several optional optical groups are available for **Par Lite Led White**. They are used to vary the beam dimension and make it suitable for different lighting applications and specifically: a group of lenses for a larger projection angle, a flood reflector and several filters that can be fitted either internally or externally to the unit.

The standard optical group, fitted on **Par Lite Led White**, is composed by a group of lenses that gives 12° beam angle.

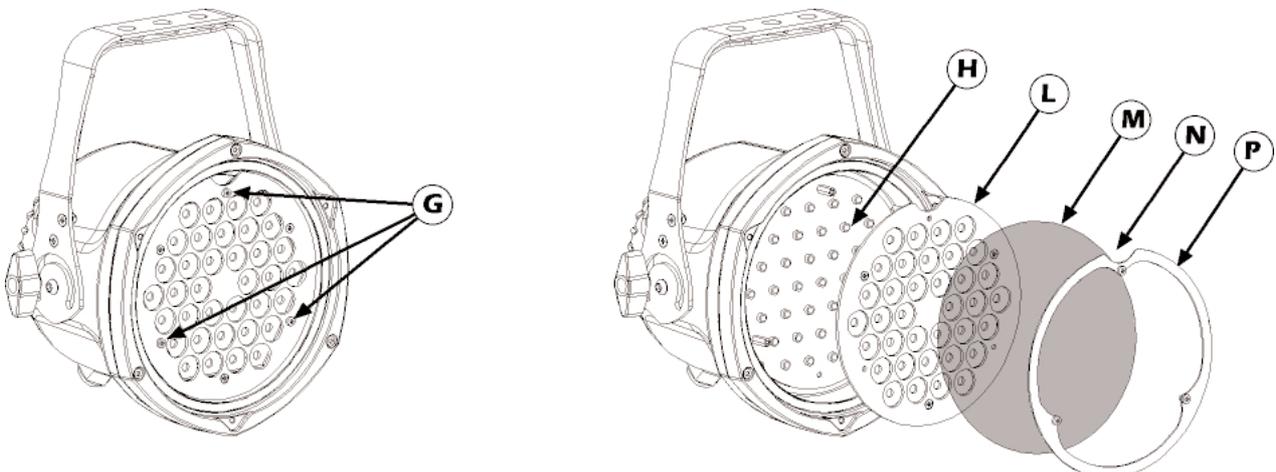
Here following you will find instructions to install different optical groups.

1. Open the unit as shown on paragraph 4.4 **Open and close the unit**
2. Remove the 3 screws "G".
3. Replace the lenses "L" and ensure that the led of "H" disc fit perfectly in the lenses seats

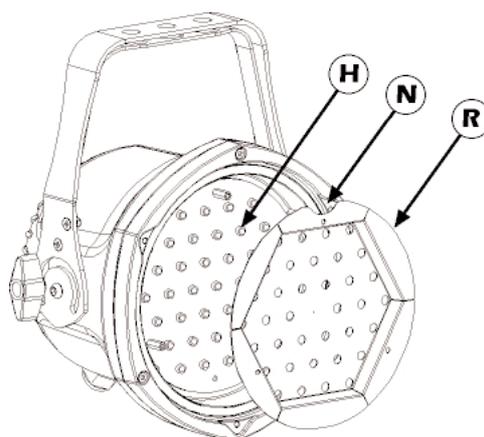
If you wish to use an optional filter holder (code **CO9169**) follow the instructions as per point 4 and 5.

4. After having positioned the lenses group insert the "M" filter
5. Lock it with the "P" filter holder

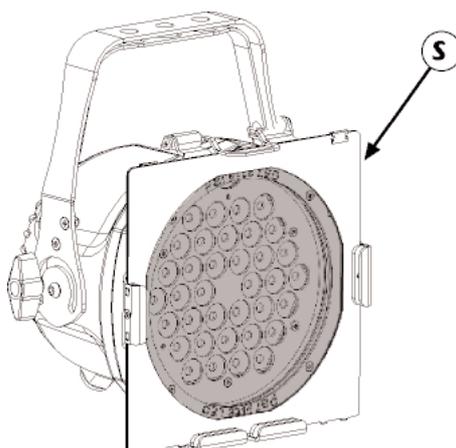
6. Tighten the 3 "G" fixing screws
7. Close the unit



To further increase the beam angle the “R” flood reflector is available (code **CO9168**) and it must be fitted instead of the lenses group and filter holder.



To vary the wideness of the beam without opening the unit, it's possible to install an external filter holder “S” (code **CO9169/1**), as shown on following drawing.



The following table details the range of beam angle and diffusion filters available for the **Par Lite Led White**

| Optical group | Beam angle |
|-------------------------------------|------------|
| Narrow Lenses (standard) | 12° |
| Narrow Lenses + Light Frost Filter | 17° |
| Narrow Lenses + Frost Filter | 25° |
| Narrow Lenses + Strip Frost Filter | Beam Shake |
| Medium Lenses (cod. CO9167) | 30° |
| Medium Lenses + Light Frost Filter | 35° |
| Medium Lenses + Frost Filter | 45° |
| Medium Lenses + Strip Frost Filter | Beam Shake |
| Flood | 130° |

To shape the beam you can use an external barndoor (code **CO9164**).

5.1. Operating voltage and frequency

The fixture may operate at voltages ranging from 90 to 250V AC at a frequency of 50 or 60 Hz.

It is not necessary to effect any setup procedures, Par Lite Led White will automatically adjust its operation to suit any frequency or voltage within this range.

5.2. Mains connection

Cabling

The mains cable provided can be one of the following type:

1. Neoprene cable Type HO7RN-F 3x1.5 mmq (cod. **CV5333**)
2. Neoprene cable type FT-2 P-7K 3x1.5 mmq (cod. **CV5307**)

Both types are suitable for outdoor applications and comply to the most recent international standards: CEI 20-19, UNEL 35364, CENELEC HD 22.

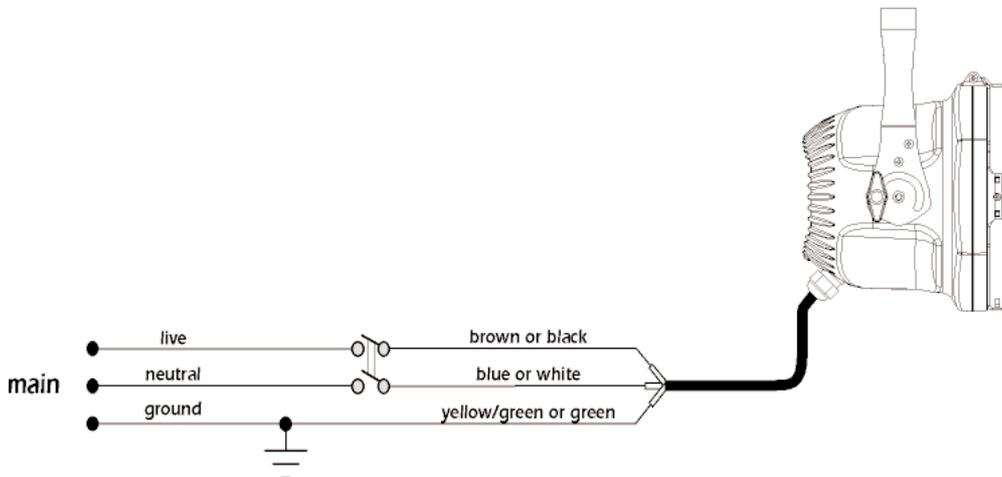
N.B. In case of cable replacement, similar cable with comparable qualities must be used exclusively (cable 3x1.5 \varnothing external 10 mm, rated 450/750V, operating temperature -25° +60°).

Connection to mains power

for connection purposes, ensure you plug is of a suitable rating:

- 230/240V 0.2 amps constant current.
- 208V 0.25 amps constant current.
- 100/115V 0.5 amps constant current.

Locate the mains cable which exits the base of the unit and connect as shown below:



ATTENTION!!

- The use of a thermal/magnetic circuit breaker for each fixture is recommended. Strict adherence to regulatory norms is strongly recommended.
- Par Lite Led White should not be powered through a Dimmer as this may damage the internal switching power-supply.
- Prior to connecting the device to mains power, ensure that the mains characteristics are within the recommended range for use with the Par Lite Led White.
- A good earth connection is essential for the correct operation of the Par Lite Led White. Never install the unit unless the yellow/gree earth cable is securely connected.
- All cabling and connections should be carried out by suitably qualified personnel.

6. DMX signal functions

Par Lite Led White can operate in three modes:

1. using DMX512 control signal
2. automated "STAND ALONE" or "MASTER/SLAVE" modes (see chapter 9. **AUTO function**)

6.1. Connecting DMX signal

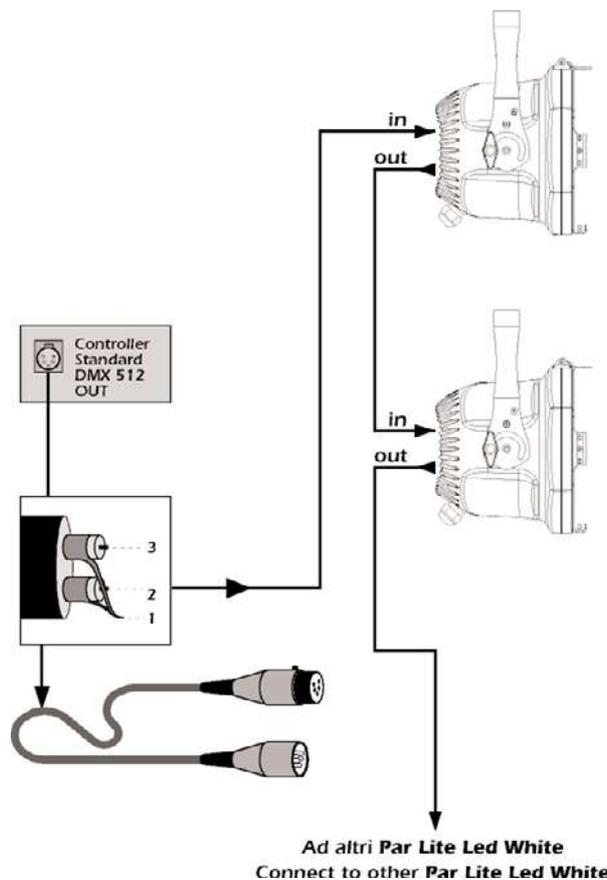
Control signal is digital and is transmitted via two pair screened cable, as recommended in international standards for the transmission of DMX512. Connection is serial, utilising the XLR3 sockets located on the rear panel of the **Par Lite Led White**.

Signal connection via the XLR3 connectors

Connection is to international standards. Connection is as indicated below:

- pin 1 = GND
- pin 2 = data -
- pin 3 = data +

Should your DMX 512 controller output signal via a cannon XLR5 (5 pin), pins 4 and 5 should remain unconnected.



ATTENTION!!

Ensure that all data conductors are isolated from one another, the screening and the metal housing of the connector. Pin number 1 and the housing should never be connected to mains power.

6.2. Powering up

After having followed the preceding steps, turn on mains power on to the unit. The **POWER** led located near the dip-switch panel will come on.

Turning on power with DMX signal connected.

The yellow DMX led will flash to indicate that **DMX 512** is being correctly received. If the yellow led is off, DMX signal is not being received (see section 15. **Frequently asked questions**).

English

6.3. DMX addressing

Via the dip-switch panel, it is possible to assign a DMX address to the fixture. The address is determined by the sum of the values associated with the dip switches set to the on position.

Each **Par Lite Led White** utilises **1 or 3 channels** of **DMX 512** signal for complete control.

IMPORTANT NOTE: the following points are valid for all the instructions which follow.

1. Setting a dip-switch to the **ON** position activates its function
2. The **DMX** address may be altered without the need to turn the **Par Lite Led White** off.
3. To set the 3 channels mode set the dip-switch **3Ch** to the on position.

The following are examples only for setting DMX addresses.

| | |
|------------------|---|
| <p>ON</p> | <p>Par Lite Led White number 1 Address DMX 001 is obtained by setting dip-switch 1 to the ON position</p> |
|------------------|---|

| | |
|------------------|--|
| <p>ON</p> | <p>Par Lite Led White number 2 Address DMX 007 is obtained by setting dip-switches 1, 2 & 4 to the ON position</p> |
|------------------|--|

6.4. DMX functions

| channel DMX | function | type of control | effect | decimal | percentage |
|-------------|----------------------|-----------------|---|---------|------------|
| 1 | master dimmer | proportional | adjust luminous output intensity from 0 to 100% | 0 - 255 | 0% - 100% |

| channel DMX | function | type of control | effect | decimal | percentage |
|--------------|--|-----------------|--|-----------|------------|
| 1 | master dimmer | proportional | adjust luminous output intensity from 0 to 100% | 0 - 255 | 0% - 100% |
| 2 | dimmer fine | proportional | fine dimmer control 16 bit | 0 - 255 | 0% - 100% |
| 3 | strobe effect | step | no effect | 0 - 9 | 0% - 4% |
| | | proportional | variable speed strobing effect, from slow to fast | 10 - 57 | 4% - 22% |
| | | step | stop strobe | 58 - 59 | 23% - 23% |
| | | proportional | sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast) | 60 - 108 | 24% - 42% |
| | | step | stop strobe | 109 - 110 | 43% - 43% |
| | | proportional | sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast) | 111 - 159 | 44% - 62% |
| | | step | stop strobe | 160 - 161 | 63% - 63% |
| | | proportional | random strobe effect with variable speed from slow to fast and synchronised channels | 162 - 207 | 64% - 81% |
| | | step | stop strobe | 208 - 209 | 82% - 82% |
| proportional | random strobe effect with variable speed from slow to fast and non-synchronised channels | 210 - 255 | 82% - 100% | | |

7. Test function

With the dip-switch set to the ON position, **Par Lite Led White** will test each individual channel without the need for a DMX controller to be connected.

For example:

| | |
|---|---|
| <p>ON</p> <p>1 2 4 8 16 32 64 128 256 auto test light on 3ch IR DR1</p> | <p>set the dip-switch to ON on the Par Lite Led White. The fixture will perform a quick sequential channel test</p> |
|---|---|

8. Light ON Function

Via this function the leds of the **Par Lite Led White** may be set to always on at a predetermined intensity. When set to **ON** the dip-switch, illumination level and channel can be set by a combination of settings as shown in the table below.

| dip-switch 1 | dip-switch 2 | dip-switch 4 | channel 1 |
|---------------|----------------|----------------|-------------------------|
| on | off | off | illumination level 20% |
| off | on | off | illumination level 30% |
| on | on | off | illumination level 40% |
| off | off | on | illumination level 50% |
| on | off | on | illumination level 60% |
| off | on | on | illumination level 80% |
| on | on | on | illumination level 100% |
| dip-switch 8 | dip-switch 16 | dip-switch 32 | channel 2 |
| on | off | off | illumination level 20% |
| off | on | off | illumination level 30% |
| on | on | off | illumination level 40% |
| off | off | on | illumination level 50% |
| on | off | on | illumination level 60% |
| off | on | on | illumination level 80% |
| on | on | on | illumination level 100% |
| dip-switch 64 | dip-switch 128 | dip-switch 256 | channel 3 |
| on | off | off | illumination level 20% |
| off | on | off | illumination level 30% |
| on | on | off | illumination level 40% |
| off | off | on | illumination level 50% |
| on | off | on | illumination level 60% |
| off | on | on | illumination level 80% |
| on | on | on | illumination level 100% |

Other examples of possible setting combinations are shown below.

| | |
|---|--|
| <p>ON</p> <p>1 2 4 8 16 32 64 128 256 auto test light on 3ch IR DR1</p> | <p>LIGHT ON dip-switch set to ON channel 1 at 20% (dip-switch 1 set to ON) channel 2 at 30% (dip-switch 16 set to ON) channel 3 at 50% (dip-switch 256 set to ON)</p> |
|---|--|

| | |
|---|---|
| <p>ON</p> <p>1 2 4 8 16 32 64 128 256 auto test light on 3ch IR DR1</p> | <p>LIGHT ON dip-switch set to ON channel 1 off channel 2 off channel 3 at 100% (dip-switches 64, 128, 256 set to ON)</p> |
|---|---|

ATTENTION!!

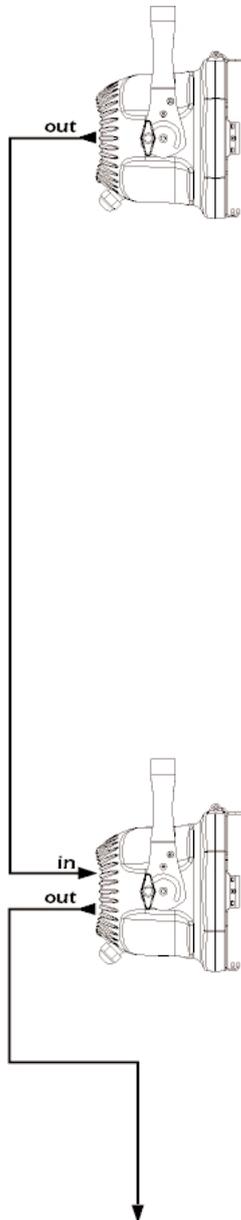
Setting the Light ON dip-switch to active inhibits control via DMX signal.
The three channel dip-switches set to the OFF position turn off the channel.

9. Auto function

This function can be used to determine the operating mode of the projector (either **STAND ALONE** or **MASTER/SLAVE**), make program selections or alter the crossfade times. Setting this function to on inhibits control via DMX signal.

9.1. MASTER/SLAVE mode

In MASTER/SLAVE mode, it is possible to control, via a projector set as MASTER, a series of **Par Lite Led White** units set to act as SLAVE fixtures. The table below displays the settings required for fixtures to be connected in this manner.



Ad altri Par Lite Led White SLAVE
Connect to other Par Lite Led White SLAVE

| MASTER | |
|--|--|
| <p>ON</p> <p>1 2 4 8 16 32 64 128 256 auto test light on 3Ch IR DRI</p> | <p>Par Lite Led White set as MASTER running program 1</p> |

To configure a **Par Lite Led White as MASTER** is simply a matter of setting the **Auto** dip-switch to the **ON** position and selecting a program for it to follow by making a selection from the following dip-switches: **1-2-4-8-256**.

There are 4 programs which can be selected.

- dip switches **1-2-4-8** select programs 1, 2, 3, and 4 respectively.

- dip-switch **256** runs all four programs sequentially

ATTENTION!!

It is only possible to select one program at a time.

| SLAVE | |
|--|---|
| <p>ON</p> <p>1 2 4 8 16 32 64 128 256 auto test light on 3Ch IR DRI</p> | <p>Par Lite Led White set to SLAVE</p> |

To configure a **Par Lite Led White as SLAVE** is simply a matter of setting the **Auto** dip-switch to the **ON**. All other dip-switches should be set to **OFF**.

After having selected the program you wish to run, dip-switches **16** and **32** may be used to set the wait time for each scene in the selected program. In this manner, programs can be made to run faster or slower according to your requirements. The following table outlines the dip-switch settings and their associated wait times.

| time (wait time) | | |
|------------------|---------------|---------------------|
| dip-switch 16 | dip-switch 32 | |
| off | off | hold time 3 second |
| on | off | hold time 10 second |
| off | on | hold time 30 second |
| on | on | hold time 1 minute |

Via dip-switches **64** and **128** it is possible to set the fade times for each scene in the selected program. The following table outlines the dip-switch settings and their associated fade times.

| speed (fade time) | | |
|-------------------|----------------|--------------------------|
| dip-switch 64 | dip-switch 128 | |
| off | off | crossfade time 3 second |
| on | off | crossfade time 10 second |
| off | on | crossfade time 30 second |
| on | on | crossfade time 1 minute |

The timing for each scene in a program is therefore a sum of the crossfade and hold times as set via these dip-switches. The following table gives an example of a possible setting.

| | |
|--|---|
| | <p>Par Lite Led White set as a MASTER running program 3 hold time 30 sec. crossfade time 10 sec. Set the AUTO and 4 dipswitches to ON will select the fixture as MASTER running program 3. Setting dip-switch 16 to OFF and 32 to ON will set a hold time of 30 sec. Dip-switch 64 to ON and 128 to OFF will set a crossfade time of 10 sec.</p> |
|--|---|

ATTENTION!!

When the AUTO function is selected DMX signal reception is disabled to avoid system conflicts.

9.2. STAND ALONE mode

In **STAND ALONE** mode the projector operates independently with no need for DMX signal. It is possible to select the program which the projector runs and to alter the hold and crossfade times.



| STAND ALONE | |
|-------------|--|
| | <p>Par Lite Led White set as STAND ALONE running program 1</p> |

To configure the **Par Lite Led White** as **STAND ALONE** simply set dip-switch **Auto** to the **ON** position and select the program you wish to run and the hold and crossfade times to follow, as described in the previous section.

10. Switch panel signal

The two leds on the dip-switch panel indicate the functionality of the **Par Lite Led White**

| Led | Function | Led on | Led off | Led flashing |
|--------|-----------|----------------------|---------------|--------------|
| Green | Power | Present | Absent | Undefined |
| Yellow | DMX state | DMX poorly connected | No DMX signal | DMX OK |

11. Thermal protection

A thermal sensor in the body of the **Par Lite Led White** protects the fixture against overheating. The sensor operates by removing power to the leds should the operating temperature exceed the factory preset.

12. Maintenance

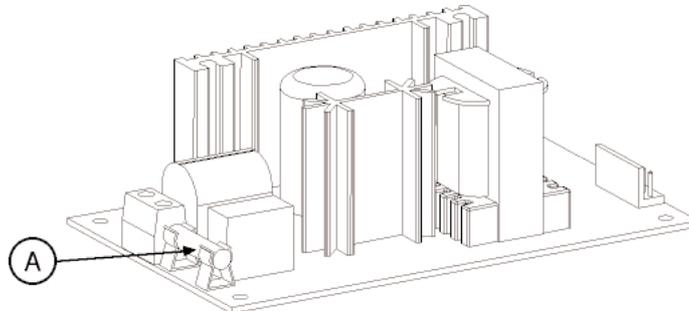
Whilst every possible precaution has been taken to ensure the trouble-free operation of your **Par Lite Led White**, the following periodic maintenance is highly recommended. We recommend that the voltage to the unit be removed prior to any maintenance procedure taking place.

ATTENTION!!

Always remove mains power prior to opening up the fixture!

14.1. Fuse replacement

Use a multimeter to check the fuse, replacing any faulty or damaged fuses with ones of equal value, dimensions and characteristics. The following diagram indicates the positioning and characteristics of the protection fuses in the fixture.



Fuse A: 4A T 250V

14.2. Periodic maintenance

Mechanicals

Check that the units is not mechanically damaged. Regularly clean the glass by using a soft cloth with a specific cleaning liquid and, if necessary, replace the damaged parts.

Electrical components

Check all electrical components for correct earthing, oxidation and proper attachment of all connectors, cleaning and refastening if necessary.

13. Spare parts

All the components of the **Par Lite Led White** are available as spare parts from your **Coemar service centre**. Accurate description of the fixture, model number, and type will assist us in providing for your requirements in an efficient and effective manner.

14. Accessory

In the table below are listed all the accessory of the **Par Lite LED** and the related **Coemar** code.

| Descrizione | Codice |
|----------------------------------|-----------------|
| 1. 12° lens assembly | CO9164 |
| 2. 12° lens assembly | CO9167/1 |
| 3. 30° lens assembly | CO9167 |
| 4. Flood | CO9168 |
| 5. Inside gel | CO9169 |
| 6. Gel | CO9169/1 |
| 7. Rear panel IP20 silver | PAN07 |
| 8. Rear panel IP20 black | PAN07/1 |
| 9. Rear panel IP66 silver | PAN08 |
| 10. Rear panel IP66 black | PAN08/1 |
| 11. XLR3 connector | CO9189/1 |
| 12. XLR5 connector | CO9189 |

15. Frequently asked questions

The diagram below indicates some possible problems and solutions if they should occur.

| Problem | Possible solution |
|--|---|
| Par Lite Led White won't turn on. | Mains power is not available to the Par Lite Led White : <ul style="list-style-type: none"> • Check that the green Led is on, if so check the incoming voltage to the Par Lite Led White. • Check the fuse. |
| Par Lite Led White doesn't respond to DMX signal | Incoming DMX may not be being received by the Par Lite Led White : <ul style="list-style-type: none"> • check that the led indicating DMX input is flashing. If not, check the DMX console's output and any cabling for continuity . • Check the dip-switch panel to ensure that no functions are selected which inhibit DMX control. • Par Lite Led White may be incorrectly addressed. Check the DMX addressing. |
| The Par Lite Led White is set to auto but is not running any programs | In addition to setting the AUTO dip-switch to on, it is necessary to also select a program number (see section 9. AUTO function). <ul style="list-style-type: none"> • Multiple programs have been selected - only one program at a time may be selected. • Check that amongst the interconnected fixtures, only one has been set to Master. • Ensure that there is no incoming DMX signal (this may cause a conflict in signals). |



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