

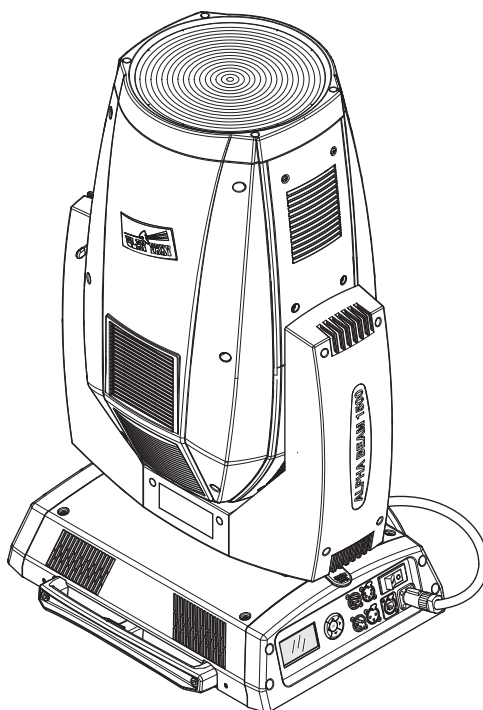


AN OSRAM BUSINESS

ALPHA BEAM 1500

C61310

INSTRUCTION MANUAL



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Congratulations on choosing a Clay Paky product!

We thank you for your custom.

Please note that this product, as all the others in the rich Clay Paky range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

Carefully read this instruction manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.

CLAY PAKY S.p.A. disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this instruction manual, which must always accompany the fitting.

CLAY PAKY S.p.A. reserves the right to modify the characteristics stated in this instruction manual at any time and without prior notice.

SAFETY INFORMATION

EN

SAFETY INFORMATION

IMPORTANT: Clay Paky recommends you carefully read and keep the safety information on this product, also available in digital format at the following link:

<http://www.claypaky.it/en>

Ref: [FIS00Q – Safety Information Alpha 1500]

IT

INFORMAZIONI DI SICUREZZA

IMPORTANTE: Clay Paky raccomanda di leggere accuratamente e conservare le informazioni di sicurezza relative a questo prodotto, sempre reperibili in versione digitale al seguente link:

<http://www.claypaky.it/en/download>

Rif: [FIS00Q – Safety Information Alpha 1500]

DE

INFORMATIONEN ZUR SICHERHEIT

WICHTIG: Clay Paky empfiehlt, die Sicherheitsinformationen bezüglich dieses Produkts genau zu lesen und aufzubewahren. Sie sind in Digitalversion immer unter folgendem Link auffindbar:

<http://www.claypaky.it/en/download>

Ref: [FIS00Q – Safety Information Alpha 1500]

ES

INFORMACIONES DE SEGURIDAD

IMPORTANTE: Clay Paky recomienda leer detenidamente y conservar la información de seguridad relativa a este producto. Además, está disponible una versión digital de la misma en el siguiente enlace:

<http://www.claypaky.it/en/download>

Ref: [FIS00Q – Safety Information Alpha 1500]

FR

CONSIGNES DE SÉCURITÉ

IMPORTANT: Clay Paky recommande de lire attentivement et de conserver les informations de sécurité relatives à ce produit, disponibles en version digitale au lien suivant:

<http://www.claypaky.it/en/download>

Réf. : [FIS00Q – Safety Information Alpha 1500]

RU

ИНСТРУКЦИЮ ПО ТЕХНИКЕ БЕЗОПАСНОСТИ

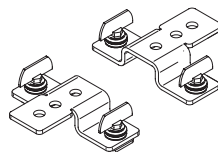
ВАЖНО: Clay Paky рекомендует внимательно прочитать и сохранить инструкцию по технике безопасности данного изделия, которая всегда доступна в электронном формате по следующей ссылке:

<http://www.claypaky.it/en/download>

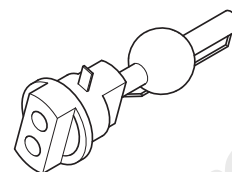
Наименование: [FIS00Q – Safety Information Alpha 1500]

UNPACKING AND PREPARATION

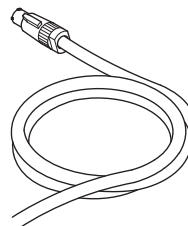
1



2 x 183102/805

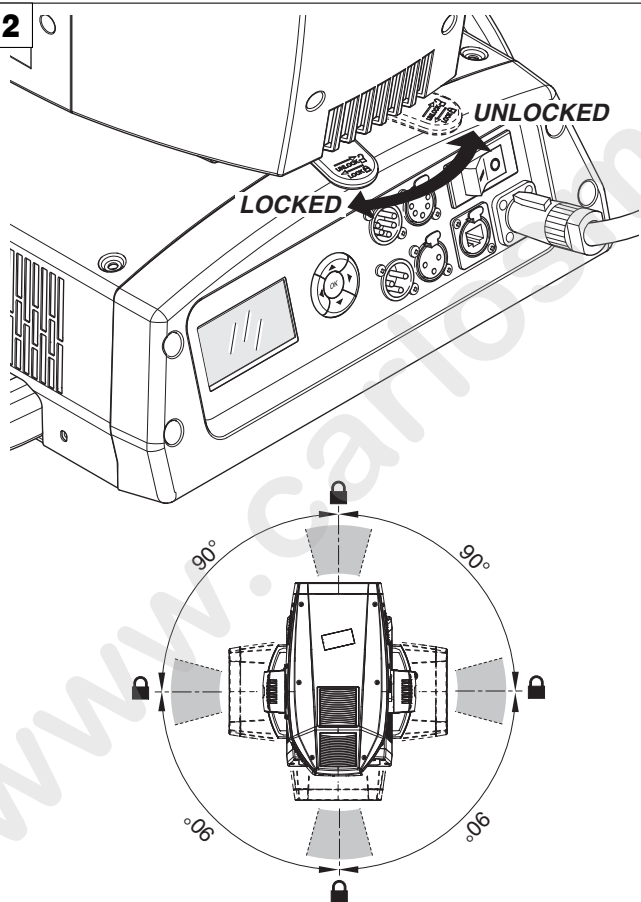


Lamp 1500W
(fitted into projector)



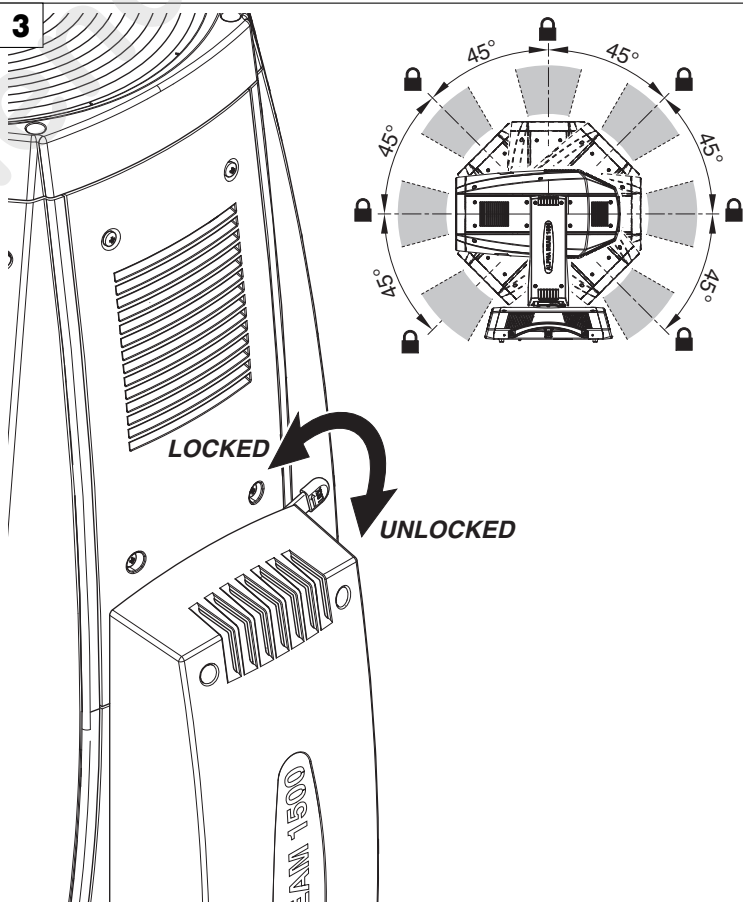
Packing contents - Fig. 1

2



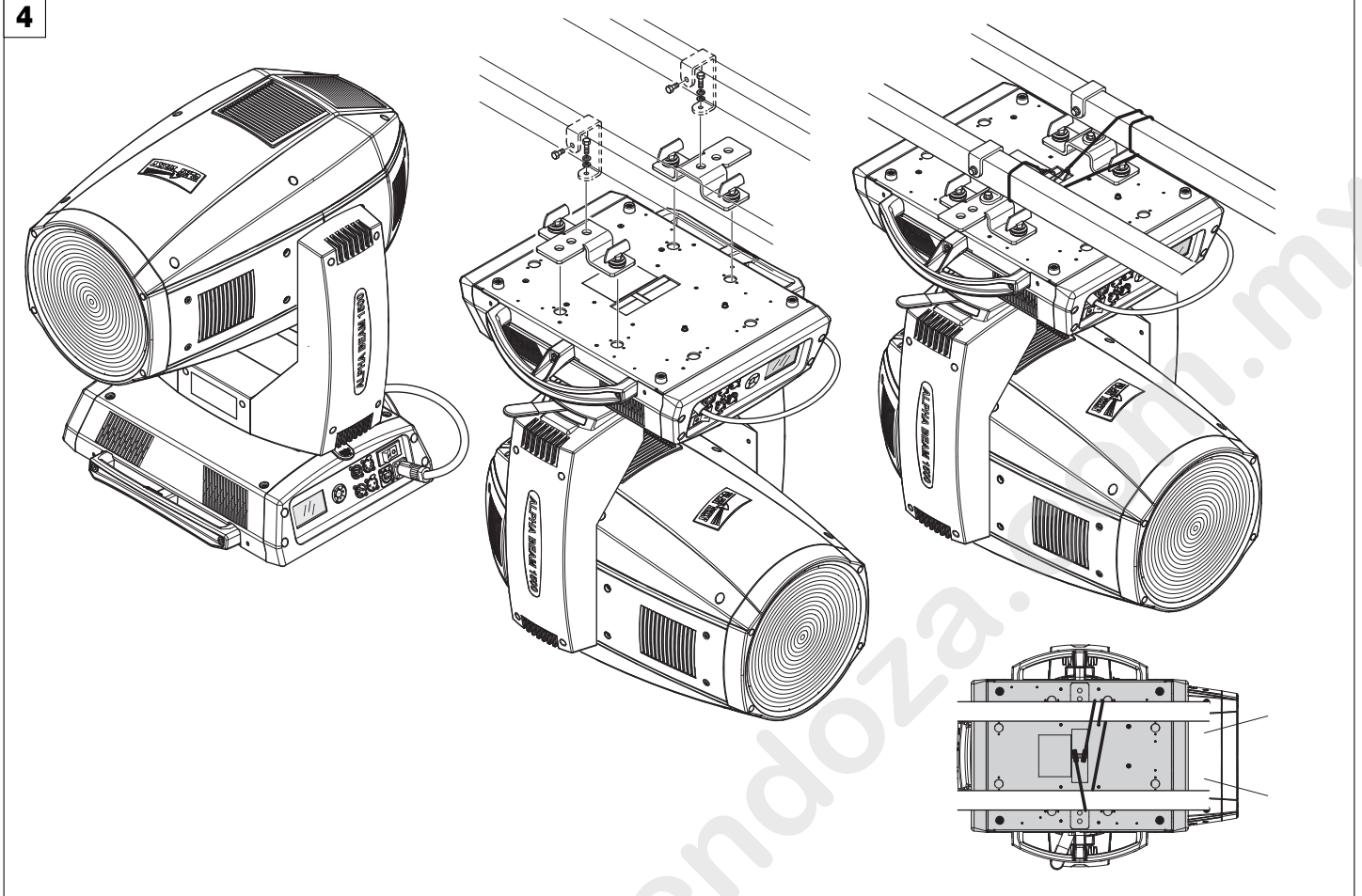
PAN Mechanism Lock and Release (every 90°) - Fig. 2

3



TILT Mechanism Lock and Release (every 45°) - Fig. 3

4

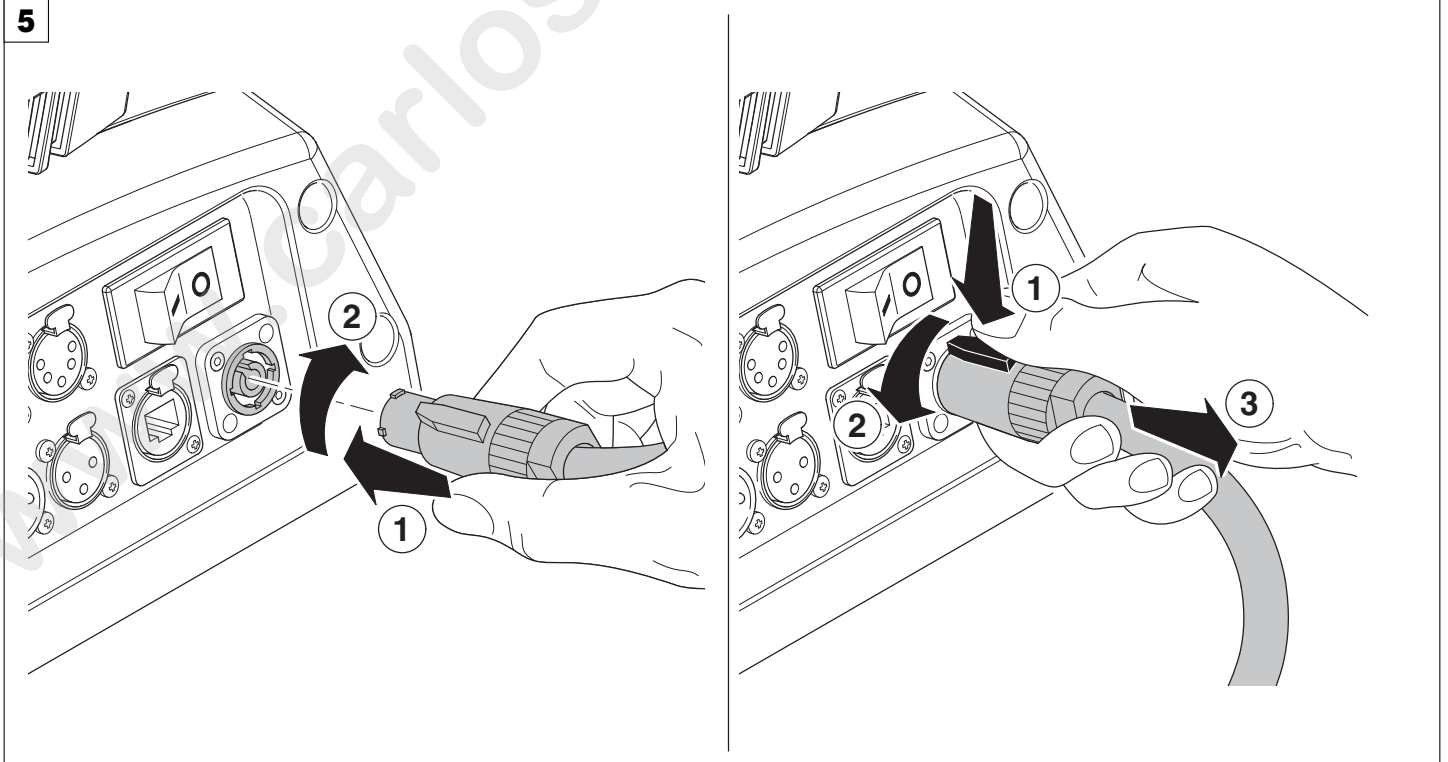


Installing the projector - Fig. 4

The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.

WARNING: with the exception of when the projector is positioned on the floor, the safety cable must be fitted. (Cod. 105041/003 available on request).

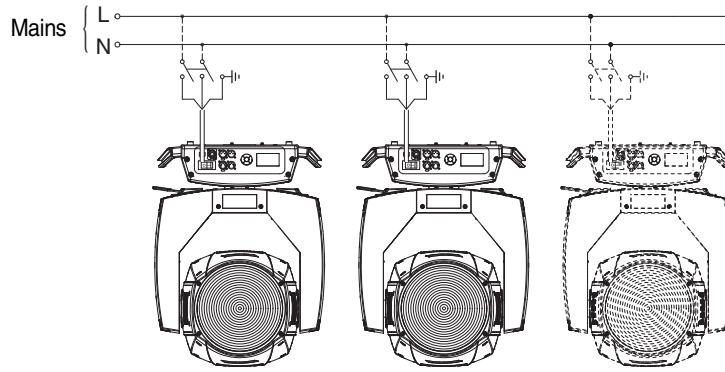
5



Connecting and disconnecting power cable - Fig. 5

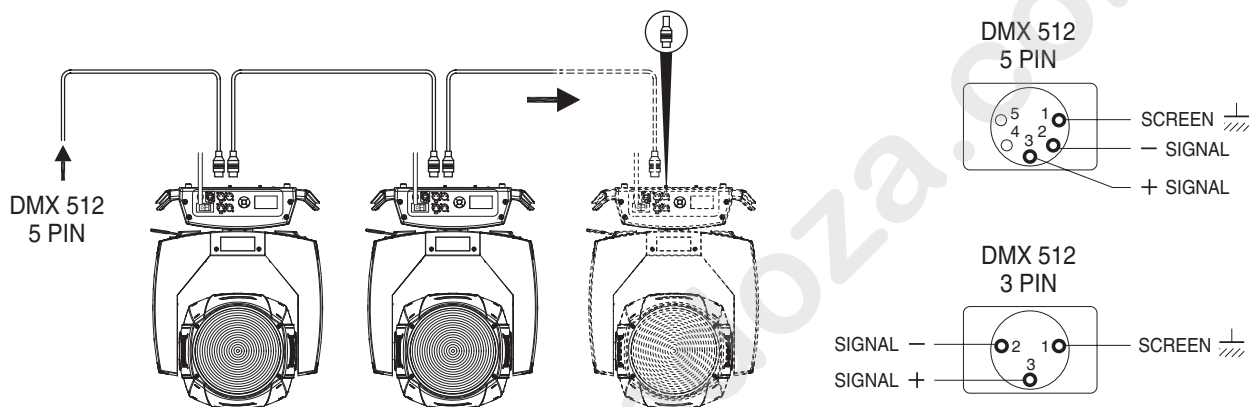
CONTROL PANEL

6



Connecting to the mains supply - Fig. 6

7

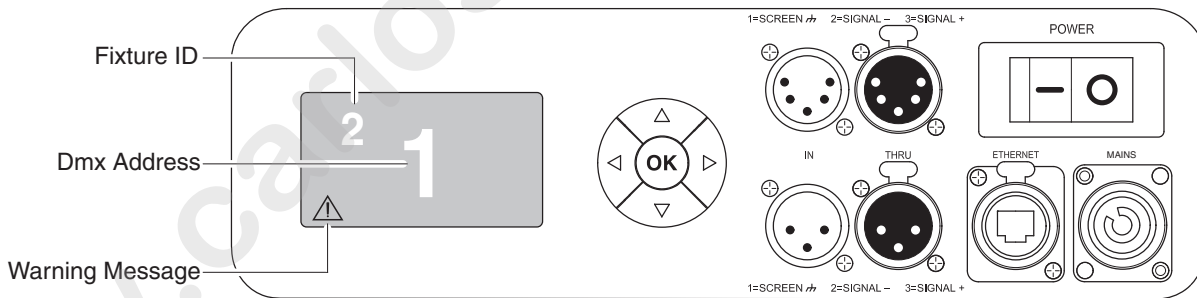


Connecting to the control signal line (DMX) - Fig. 7

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.

8



Switching on the projector - Fig. 8

Press the switch. The projector starts resetting the effects. At the same time, the following information scrolls on the display:



Model
Alpha BEAM
1500

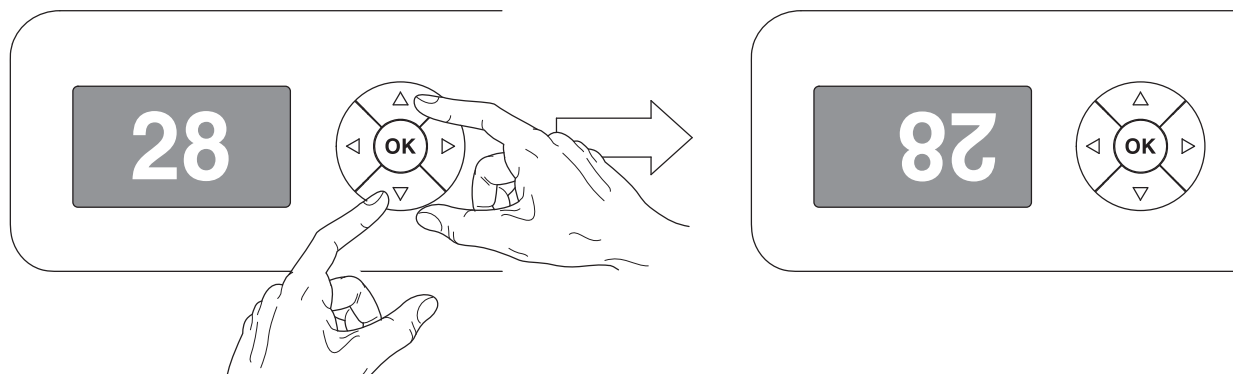
Firmware
Version X.X.X
Date - Hour

xxx (Fixture ID)
Dmx Address xxx



System errors
E:
W:

On conclusion of resetting in case of the absence of dmx signal, Pan and Tilt move to the "Home" position (Pan 128 bit - Tilt 128 bit). The control panel (Fig. 8) has a display and buttons for the complete programming and management of the projector menu. The display can be in one of two conditions: rest status and setting status. When it is in the rest status, the display shows the projector's DMX address and the Fixture ID address (if set).

During menu setting status, after a wait time (about 30 seconds) without any key having been pressed, the display automatically returns to rest status. It should be noted that when this condition occurs, any possible value that has been modified but not yet confirmed with the **OK** key will be cancelled.



Reversal of the display - Fig. 9

To activate this function, press UP  and DOWN  keys simultaneously while the display is in the rest mode. This status will be memorised and maintained even for the next time it will be switched on. To return to the initial state, repeat the operation all over again.

Setting the projector starting address

On each projector, the starting address must be set for the control signal (addresses from 1 to 512).

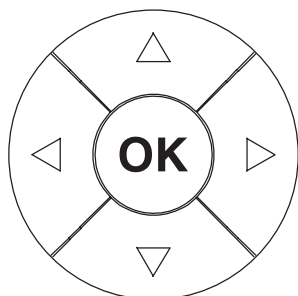
The address can also be set with the projector switched off.

Setting the projector Fixture ID

On each projector, the Fixture ID address must be set for an easy identification of the fixtures in an installation (ID from 1 to 255).

The Fixture ID address can be set with the projector switched off.

Functions of the buttons - Using the menu



Confirms the displayed value, or activates the displayed function, or enters the successive menu.



Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.



Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.









Return to the top level




Commute from units, tens, hundreds, in the "Address", "Fixture ID" and "Calibration" menu.

USING THE MENU:

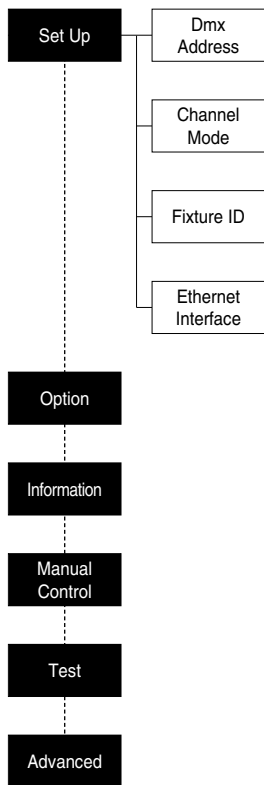
- 1) Press  once – "Main Menu" appears on the display.
- 2) Use the UP  and DOWN  keys to select the menu to be used:
 - Setup (Setup Menu): To set the setting options.
 - Option (Option Menu): To set the operating options
 - Informations (Informations Menu): To read the counters, software version and other information.
 - Manual Control (Manual control Menu): To trigger the test and manual control functions.
 - Test (Test Menu): To check the proper functioning of effects
 - Advanced (Advanced Menu): Access to the "Advanced menu" is recommended for a trained technical personnel.
- 3) Press  to display the first item in the selected menu.
- 4) Use the UP  and DOWN  keys to select the MENU items.

Setting addresses and options with the projector disconnected

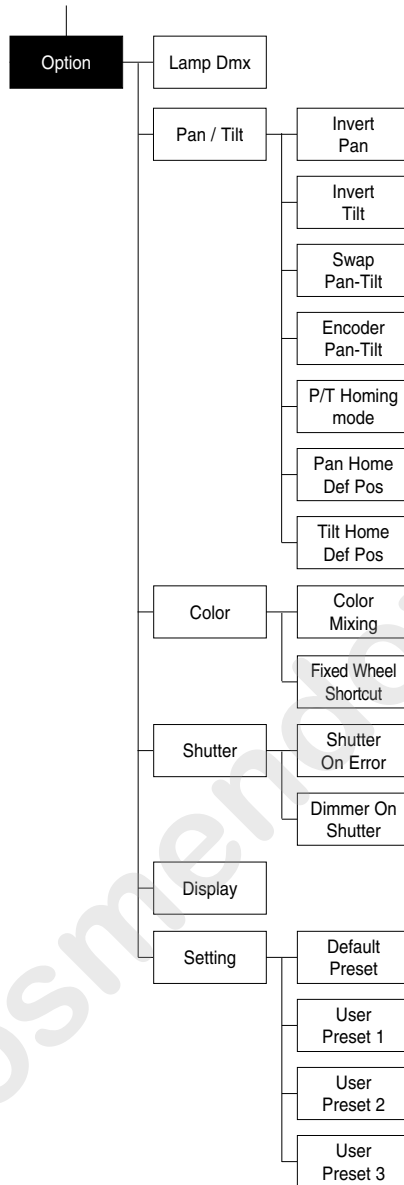
The projector's DMX address, as well as other possible operating options, can also be set when the appliance is disconnected from the electricity supply. All that is needed is to press  to momentarily activate the display and thus access the settings. Once the required operations have been carried out, the display will switch off again after a wait time of 30 seconds.

MENU SETTING

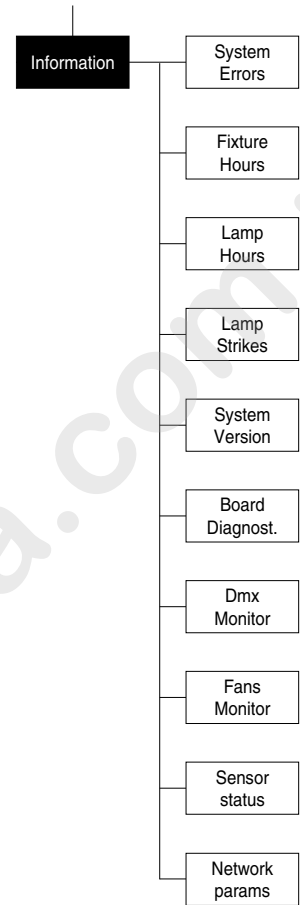
1



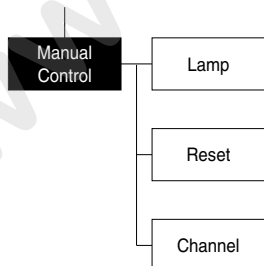
2



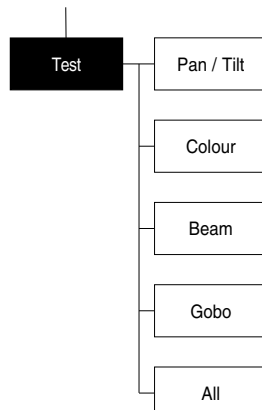
3



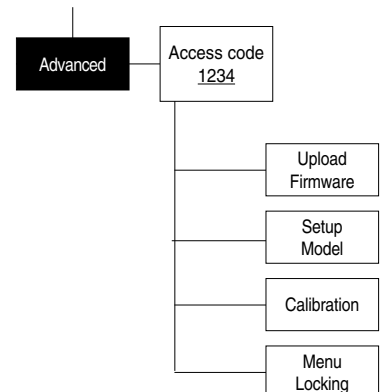
4



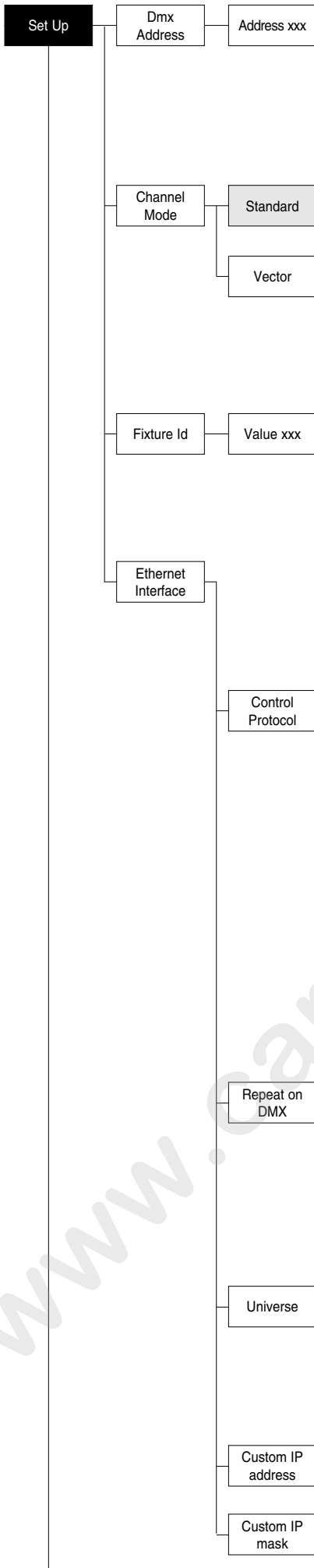
5



6



NOTE: On grey the default options



SET UP MENU

DMX ADDRESS

NOTE: without the DMX signal the Address (XXX) flashing

Allows you to select the DMX ADDRESS

- 1) Press **OK** - the current DMX Address appear on the display.
- 2) Use the UP **▲**, DOWN **▼**, RIGHT **▶** keys to plan the DMX Address.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

CHANNEL MODE

Allows you to select a channel arrangement from the two available.

- 1) Press **OK** - the current settings appear on the display (Standard or Vector).
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
 - **Standard**
 - **Vector**
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

FIXTURE ID

Allows you to select the FIXTURE ID

- 1) Press **OK** - the current Fixture ID appear on the display.
- 2) Use the UP **▲**, DOWN **▼**, RIGHT **▶** keys to plan the Fixture ID.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

ETHERNET INTERFACE

It lets you set the Ethernet settings to be attributed to the projector.

- 1) Premere **OK**.
- 2) Use the UP **▲** and DOWN **▼** keys to select the "Ethernet Interface" options to set:

Control Protocol

It lets you select the "Control Protocol" Art-net to assign according to the control unit used:

- 1) Press **OK** the current setting appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
 - Disabled
 - Art-net on IP 2
 - Art-net on IP 10
 - Art-net Custom IP
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep the current setting.

If the **Control Protocol** option is set on **Disabled**, when an **IP** address (**IP2**, **IP10** or **IP Custom**) is selected, the projector immediately initializes the **IP** address that was just selected.

If the **Control Protocol** option is enabled (**IP2**, **IP10** or **IP Custom**) and a new one is selected that is different from the previous one, the projector must be restarted so that it will be correctly initialized.

Repeat on DMX

It lets you enable the transmission of the Ethernet protocol by DMX signal to all the connected projectors.

- 1) Press **OK** the current setting appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
 - **Disabled**: DMX transmission disabled.
 - **Enabled on primary**: DMX transmission enabled.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep the current setting.

Universe

It lets you assign the "Universe" number to be assigned to a series of projectors.

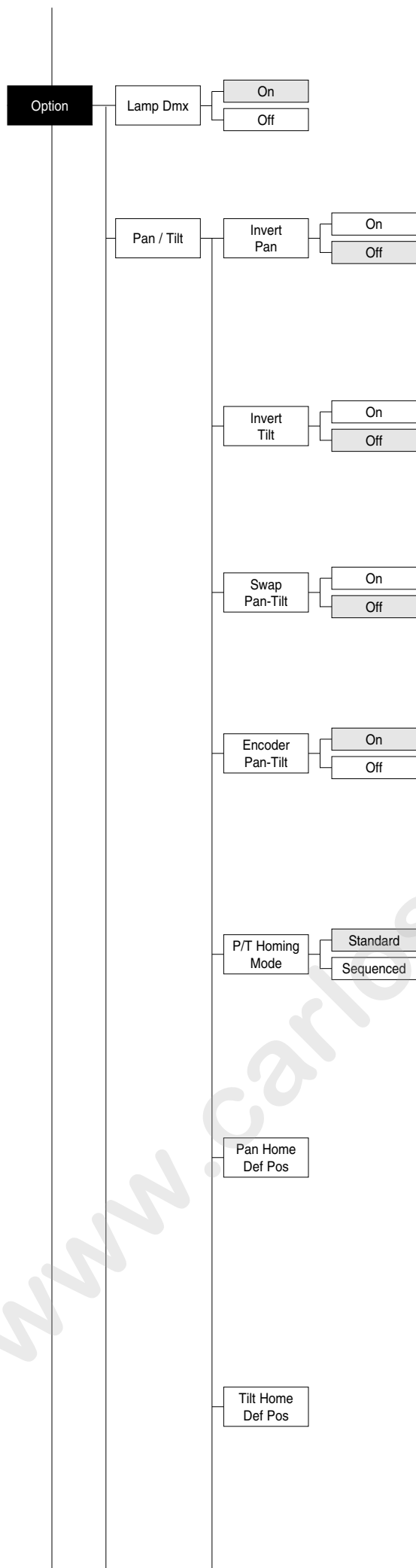
- 1) Press **OK** - the current Universe address appears on the display.
- 2) Use the UP **▲**, DOWN **▼**, RIGHT **▶** keys to set the Universe address.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep the current setting.

Custom IP address

Allows you to set the **IP address** manually by the user default.

Custom IP mask

Allows you to set manually the **Subnet Mask** by the user default.



OPTIONS MENU

LAMP DMX

Used for enabling lamp remote control channel.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) the lamp remote control channel.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

PAN / TILT

Invert pan

Used for reversing Pan movement.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) PAN inversion.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

Invert tilt

Used for reversing tilt movement.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) Tilt inversion.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

Swap Pan-Tilt

Used for swapping Pan and Tilt channels (as well as Pan fine and Tilt fine).

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) Pan and Tilt channel swap.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

Encoder Pan-Tilt

Used for enabling the Pan / Tilt encoders.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) Pan / Tilt encoders.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

You can quickly disable the Pan and Tilt Encoder by simultaneously pressing the UP **▲ and DOWN **▼** keys in the "Main Menu".**

P/T Homing Mode

Lets you set the initial projector Reset mode.

- 1) Press **OK**, the current setting appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
Standard: Pan & Tilt are simultaneously reset.
Sequenced: Tilt is reset first followed by Pan.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep the current setting.

Pan Home Def Pos

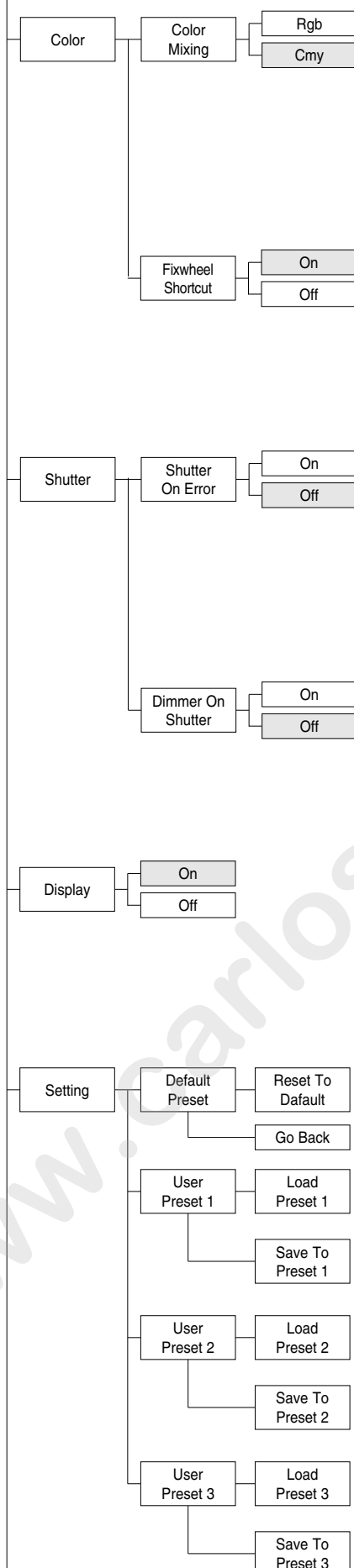
Lets you assign the Pan channel "home" position at the end of Reset, without a DMX input signal.

- 1) Press **OK**, the current setting appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
0 degree
90 degrees
180 degrees
270 degrees (default)
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep the current setting.

Tilt Home Def Pos

Lets you assign the Tilt channel "home" position at the end of Reset, without a DMX input signal.

- 1) Press **OK**, the current setting appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
0%
12.5%
25%



50% (default)

75%

87.5%

100%

3) Press **OK** to confirm the selection or **LEFT** to keep the current setting.

COLOR

Color mixing

Used for reversing the CMY color mixing system.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the **UP** and **DOWN** keys select one of the following settings:
RGB color mixing mode
CMY color mixing mode
- 3) Press **OK** to confirm the selection or **LEFT** to keep current settings.

Fixed wheel short-cut

Used for optimizing color change time so that the disc turns in the direction that requires shorter movement.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the **UP** and **DOWN** keys to enable (On) or disable (Off) color change optimization.
- 3) Press

SHUTTER

Shutter on error

Used for automatically closing the stop/strobe in the event of Pan/Tilt position error.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the **UP** and **DOWN** keys to enable (On) or disable (Off) automatic stop/strobe closing in the event of Pan/Tilt position error.
- 3) Press **OK** to confirm the selection, or **LEFT** to keep current settings.

Dimmer on Shutter

Enables automatic closing of the dimmer when the strobe is completely closed.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the **UP** and **DOWN** keys to enable (On) or disable (Off) the automatic closing of the dimmer.
- 3) Press **OK** to confirm the selection or **LEFT** to keep current settings.

DISPLAY

Used for automatically reduce brightness on the display after about 30 seconds in idle.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the **UP** and **DOWN** keys to enable (On) or disable (Off) the decreasing of display brightness.
- 3) Press **OK** to confirm the selection or **LEFT** to keep current settings.

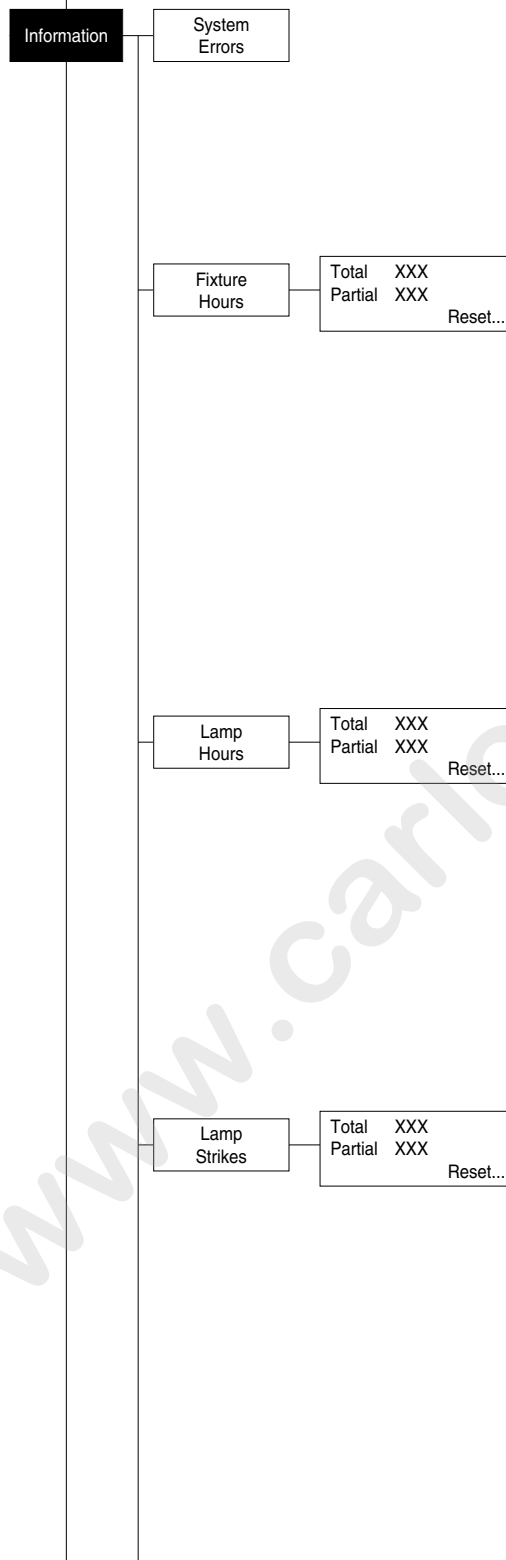
SETTING

Used to save 3 different settings of the items in the options menu and relative submenus.

- 1) Press **OK** - "Default preset" appears on the display.
- 2) Use the **UP** and **DOWN** keys to select one of the following configurations:
- Default preset (*)
- User preset 1
- User preset 2
- User Preset 3
- 3) Press **OK** - "Load preset X" appears on the display.
- 4) Use the **UP** and **DOWN** keys to select:
- Load preset X to recall a previously stored configuration.
- Save to preset X to store the current configuration.
a confirmation message (Are you sure?) appears on the display.
- 5) Select YES to confirm the selection or NO to keep the current setting and return to the next higher level.

(*) DEFAULT PRESET

By pressing the RIGHT key and the LEFT key simultaneously once entered in the "main menu" it is possible to quickly (short cut) reset the default settings (DEFAULT PRESET).



Used for restoring default values on all options menu items and relevant submenus.

- 1) Press **OK**, a confirmation message (Are you sure?) appears on the display.
- 2) Select YES to confirm the selection or NO to keep current setting.

OPTION	DEFAULT
Lamp DMX	On
Invert Pan	Off
Invert Tilt	Off
Swap Pan-Tilt	Off
Encoder Pan-Tilt	On
Colour mixing	CMY
Fixed Wheel Shortcut	On
Shutter on error	Off
Dimmer on Shutter	Off
Display	On

INFORMATION MENU

SYSTEM ERRORS

Shows a list of warnings and messages relevant to errors occurred since the fixtures switching-on.

- 1) Pressing **OK** you are allowed to reset the SYSTEM ERRORS list.
A confirmation message (Are you sure you want to clear error list ?) appears on the display.
- 2) Select YES to reset the list or NO to go back.

FIXTURE HOURS

Used for displaying projector operating hours (total and partial).

- 1) Press **OK** - Hours total and partial appears on the display.

Total counter

Counts the number of projector working life hours (from manufacture to date).

Partial counter

Counts the number of partial projector working life hours since the last reset to date.

- 2) Press **OK** to reset partial projector working hours a confirmation message (Are you sure?) appears on the display.
- 3) Select YES to reset partial projectors counter or NO to keep the current setting and return to the top menu level.

LAMP HOURS

Used for displaying the lamp working hours (total and partial).

- 1) Press **OK** - Hours total and partial appears on the display.

Total counter

Counts the number of projector working hours with the lamp on (from manufacture to date).

Partial counter

Counts the number of lamp working hours since the last reset to date.

- 2) Press **OK** to reset partial lamp working hours, a confirmation message (Are you sure ?) appears on the display.
- 3) Select YES to reset partial counter or NO to keep the current setting and return to the top menu level

LAMP STRIKES

Used for displaying the number of times the lamp was turned on (total and partial).

- 1) Press **OK** - the number of times the lamp was turned on (total and partial) appears on the display.

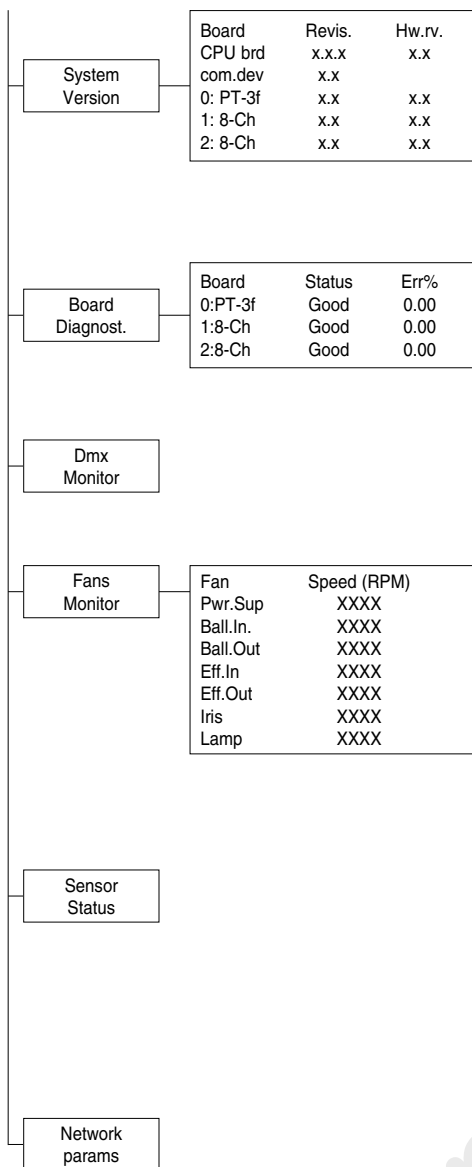
Total counter

Counts the number of times the lamp was turned on (from manufacture to date).

Partial counter

Counts the number of times the lamp was turned on since the last reset to date.

- 2) Press **OK** to reset partial lamp strikes hours, a confirmation message (Are you sure ?) appears on the display.
- 3) Select YES to reset partial counter or NO to keep the current setting and return to the top menu level



SYSTEM VERSION

Used for displaying the software and hardware version of each board installed in the projector.

CPU brd (CPU board)

0: PT-3f (Pan / Tilt board)

1: 8-Ch (8 channel board)

2: 8-Ch (8 channel board)

BOARD DIAGNOSTIC

Used for displaying the status error of each board installed in the projector:

0: PT-3f (Pan / Tilt board)

1: 8-Ch (8 channel board)

2: 8-Ch (8 channel board)

DMX MONITOR

Used for displaying the projector DMX channel level in bit (Val) and in percentage (Perc).

FANS MONITOR

Used for displaying the speed of each fan installed in the projector:

Pwr.Sup (Power supply Fan)

Ball. IN (Ballast IN Fan)

Ball. Out (Ballast OUT Fan)

Eff.IN (Effects IN Fan)

Eff.OUT (Effects OUT Fan)

Iris (Iris Fan)

Lamp (Lamp Fan)

SENSOR STATUS

It lets you check the correct operations of each "sensor" installed in the projector, each channel is associated with one of the following three parameters:

- n.a.= sensor not available
- ON= sensor working
- OFF= sensor defective

NETWORK PARAMS

Allows the "Network" parameters of the projector to be displayed or:

IP address: Internet Protocol address (two projectors must not have the same IP address)

IP mask: 255.0.0.0

Mac address: Media Access Control: the projector's Ethernet Address

MANUAL CONTROL

LAMP

Used for turning lamp on and off from the projector control panel.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to turn the lamp on (On) or off (Off)
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings and return to the top level.

RESET

Used for resetting the projector.

- 1) Press **OK** to reset the projectors, a confirmation message (Are you sure ?) appears on the display.
- 2) Select YES to starting reset the fixture or NO to keep the current setting and return to the top menu level.

CHANNEL

Used for setting channel levels from the projector control panel.

- 1) Press **OK** - the first channel appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select the required channel:
- 3) Press **OK** and use the UP **▲** and DOWN **▼** keys to select the required DMX level (value between 0 and 255).
- 4) Press LEFT **◀** to return to the top menu level.

Manual
Control

Lamp

On

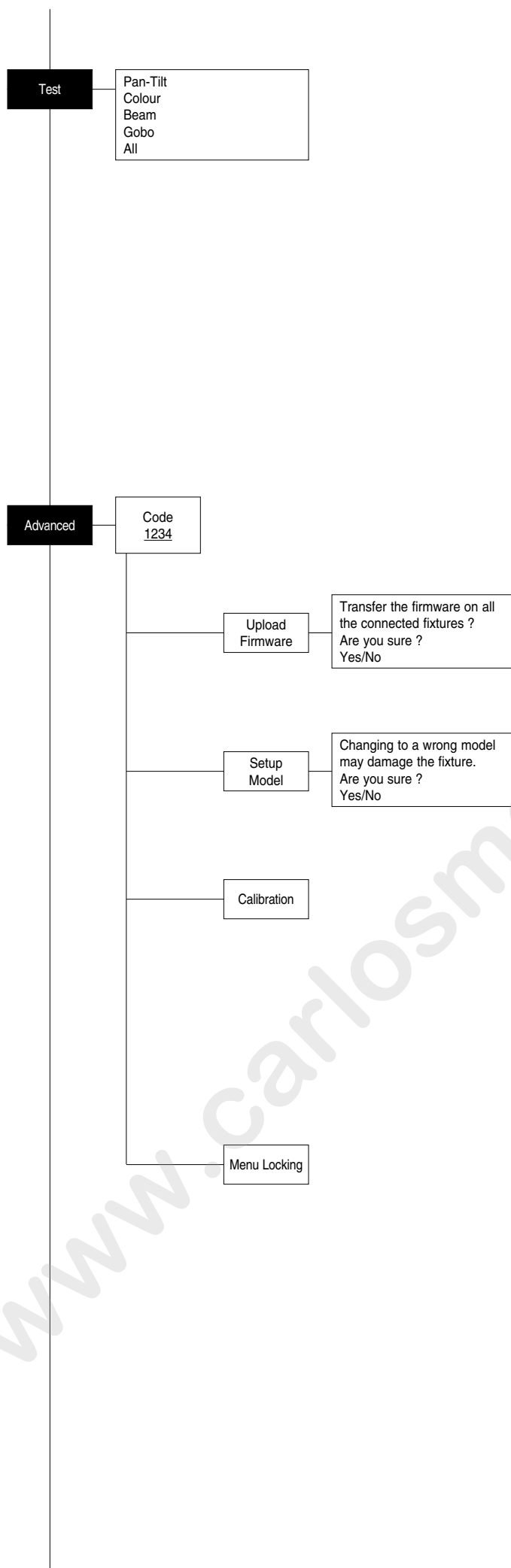
Off

Reset

No

Yes

Channel



TEST MENU

AUTOTEST

Allows you to check the proper functioning of effects.

- 1) Press **OK**.
- 2) Use the UP **▲** and DOWN **▼** keys to select the required test.
- 3) Press **OK** to confirm the selection or LEFT **◀** to return to the top menu level.

Test sequence:

Pan - Tilt effects (Pan & Tilt)

Colour effects (CMY, colour wheel)

Beam effects (Stopper-Strobe / Dimmer / Iris / Prism / Frost)

Gobo effects (Fixed gobo / Rotating gobo)

All effects

ADVANCED MENU

To enable the "Advanced Menu" set up the "Access code" (1234) using the UP **▲**, DOWN **▼**, RIGHT **▶** keys.

Press **OK** - "Menu advanced" appears on the display

UP LOAD FIRMWARE

Allows you to transfer the firmware from 1 fixture to all the connected fixtures.

- 1) Press **OK**, a confirmation message appears on the display.
- 2) Select YES to start the firmware loading or NO to keep the current setting and return to the top menu level

SETUP MODEL

Allows you to change the default model of projector.

- 1) Press **OK** a confirmation message appears on the display.
- 2) Select YES to define the model of projector or NO to keep the current setting and return to the top menu level.

CALIBRATION

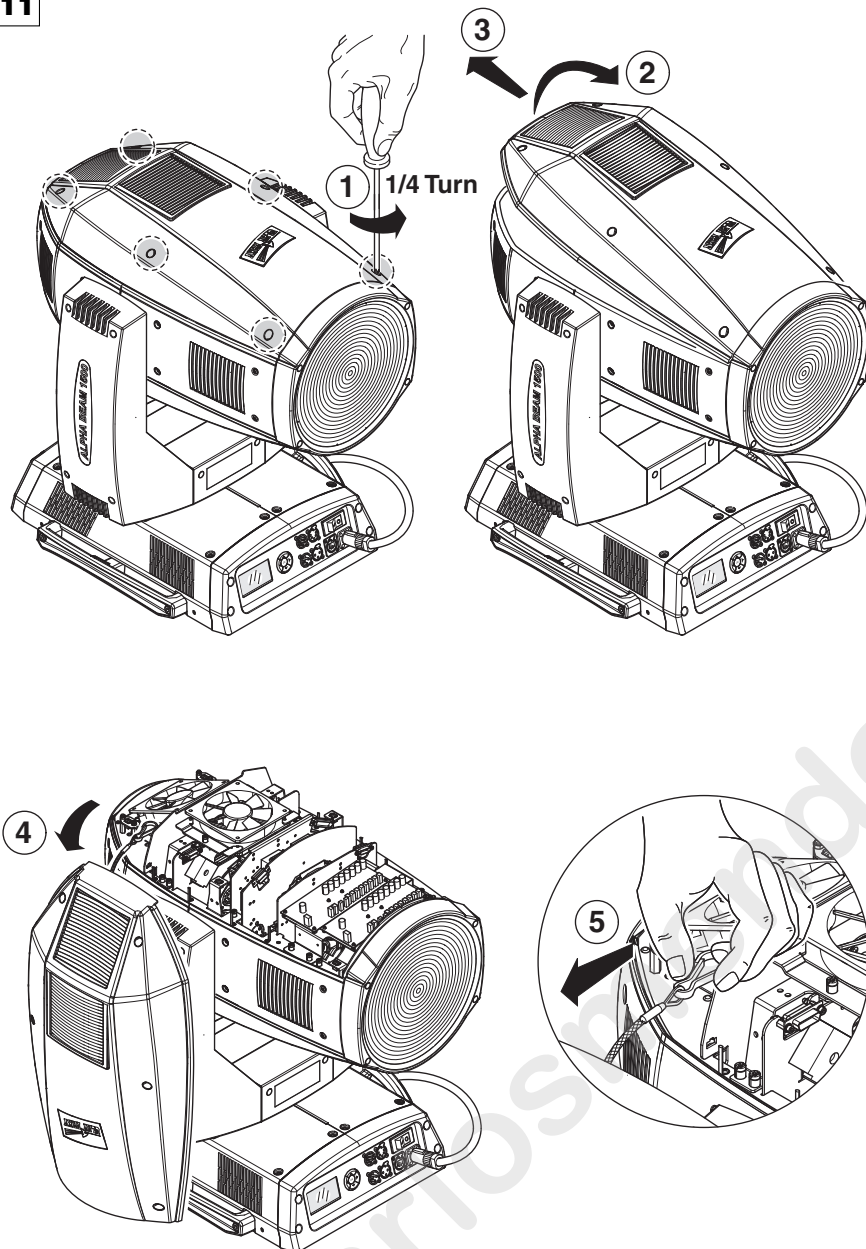
Allows you to adjust effects from the control panel to obtain perfect uniformity between the projectors.

- 1) Press **OK** - "channels" appears on the display.
- 2) Using the UP **▲** and DOWN **▼** keys, select the effect you wish to regulate.
- 3) Press **OK** and use the RIGHT **▶**, UP **▲** and DOWN **▼** buttons to make the adjustment by setting a value between 0 and 255.
- 4) Press **OK** to confirm the selection or LEFT **◀** to keep current settings and return to the top level.

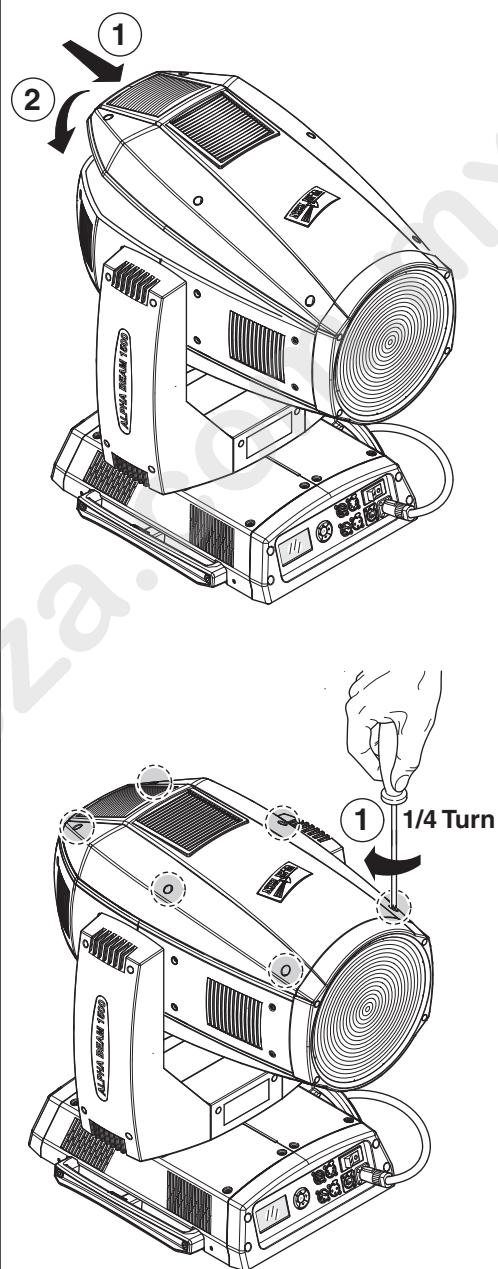
MENU LOCKING

It allows you to assign a password to lock the access to the user menu, so that only users know the password can change settings. The password is 4-digit number.

11



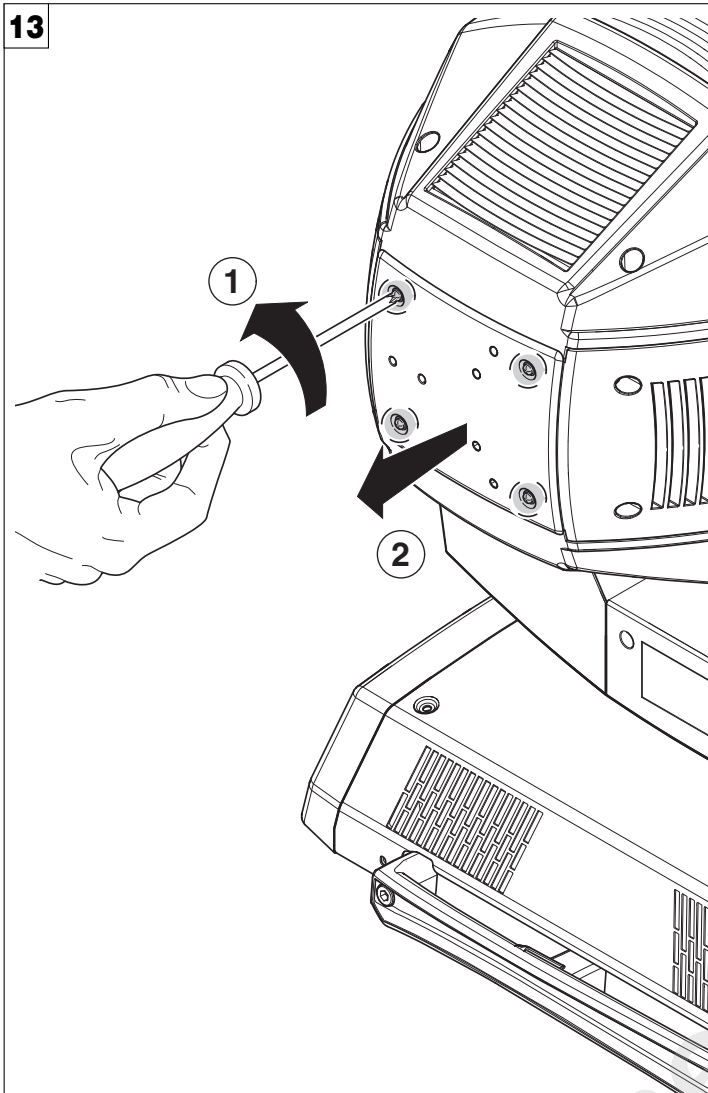
12



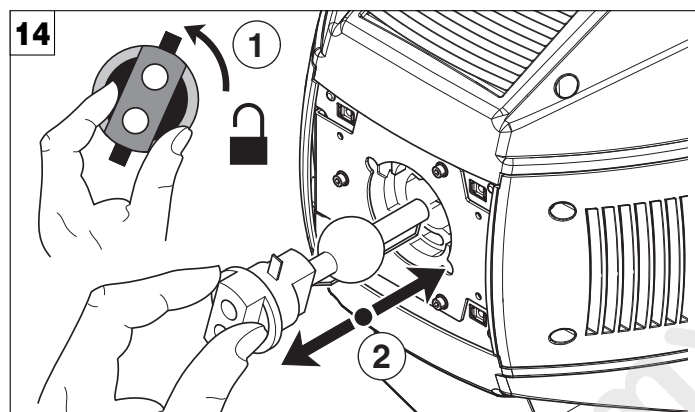
Locking and releasing Pan and Tilt movements - Refer to the instructions in the UNPACKING AND PREPARATION section.

Opening the head covers - Fig. 11.

Closing the head covers - Fig. 12.



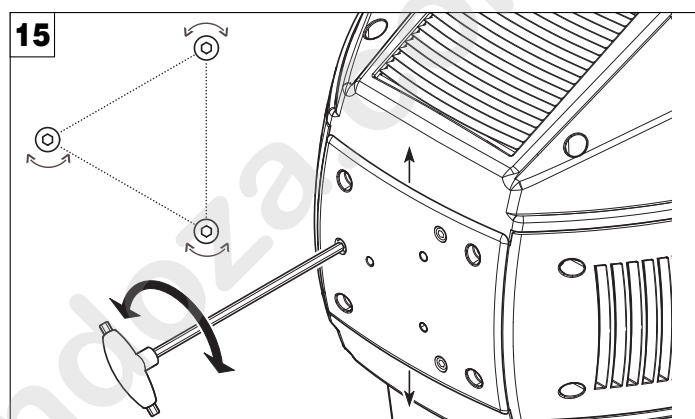
Opening and closing lamp compartment - Fig. 13



Lamp change - Fig. 14

Take the new lamp out of its package and insert in the fitting.

WARNING: do not touch the lamp's envelope with bare hands. Should this happen, clean the bulb with a cloth soaked in alcohol and dry it with a clean, dry cloth.

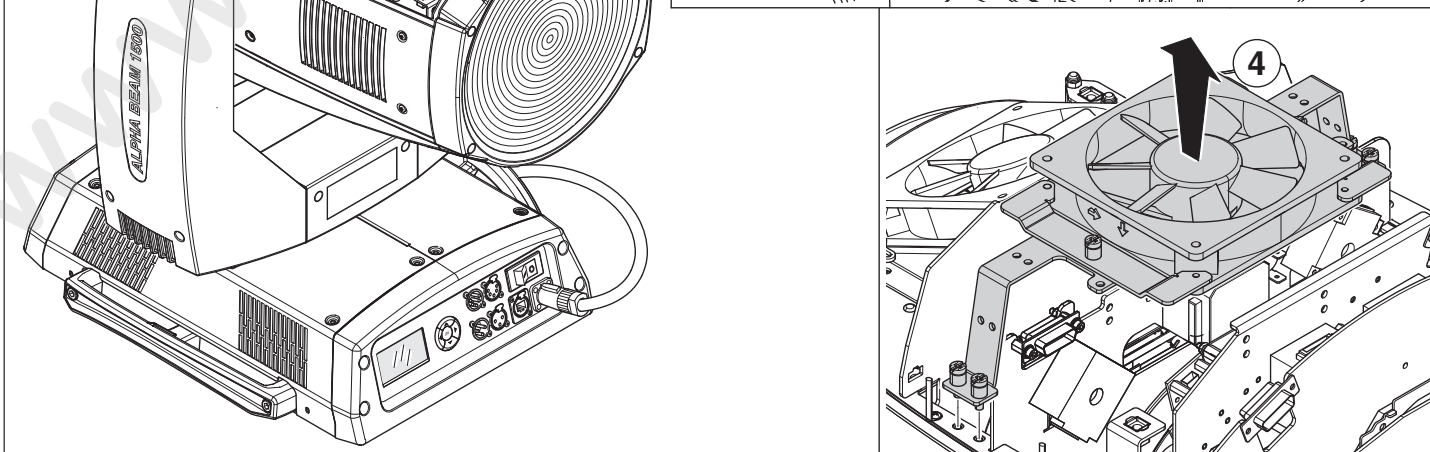
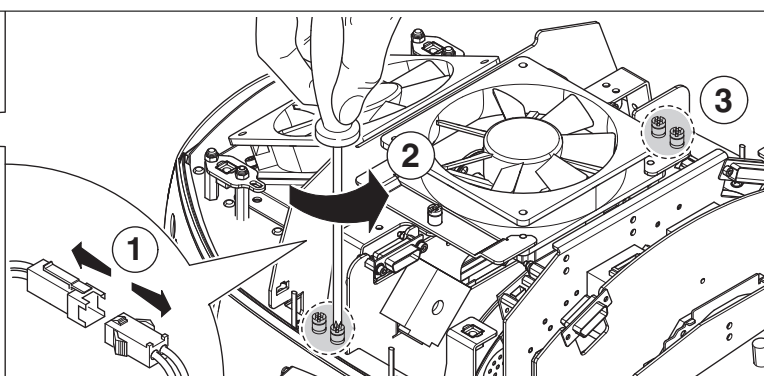
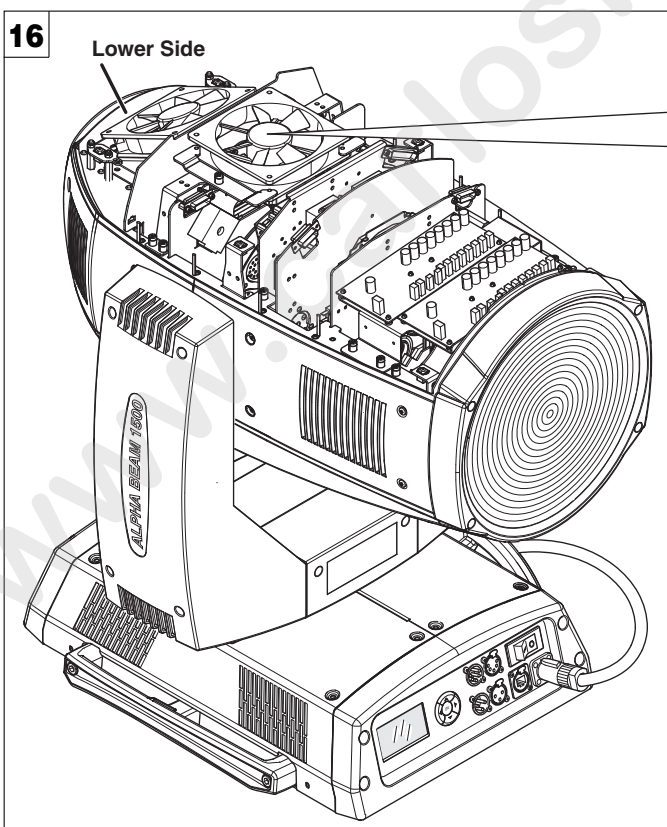


Lamp regulation - Fig. 15

To centre the lamp, turn the three adjusting screws as shown in the figure.

CAUTION:

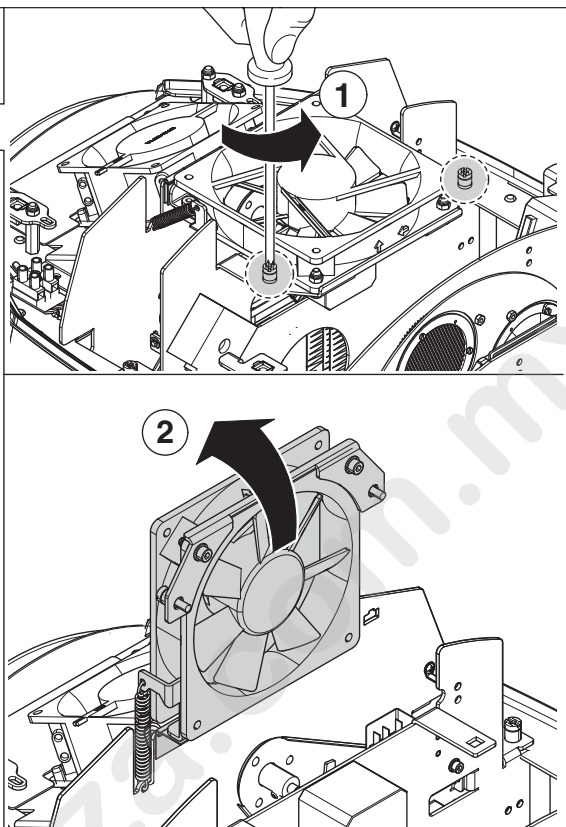
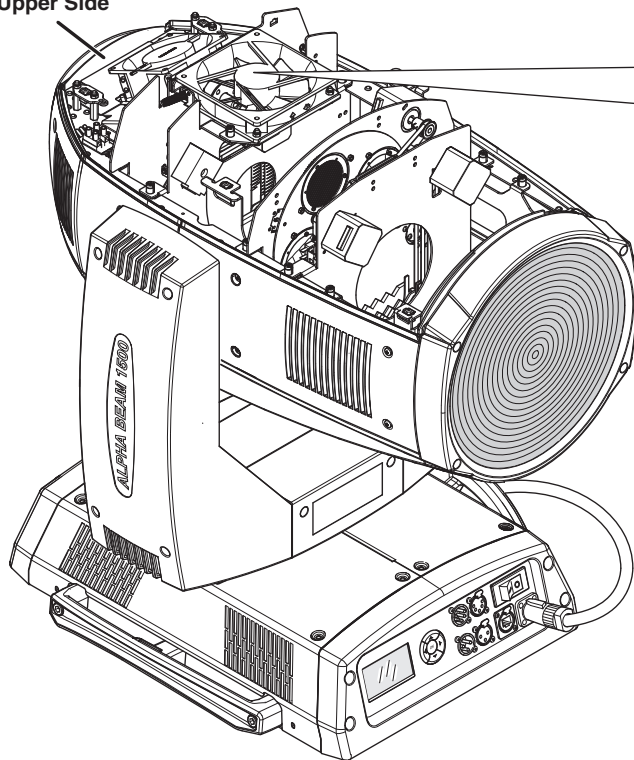
Fast lamp ON-OFF cycles (for example 10 minutes ON / 10 minutes OFF) will reduce the lamp life.



Fan support plate opening and closing (Lower side) - Fig. 16

17

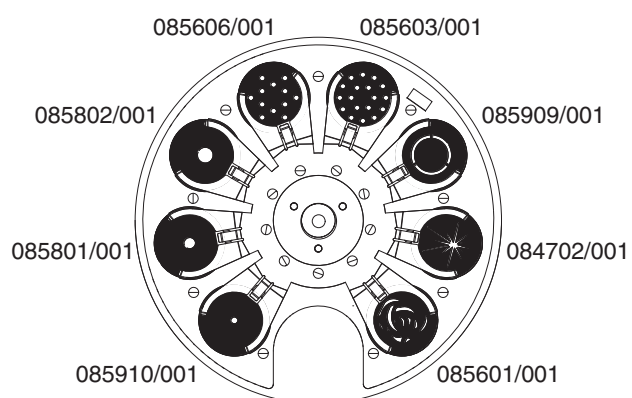
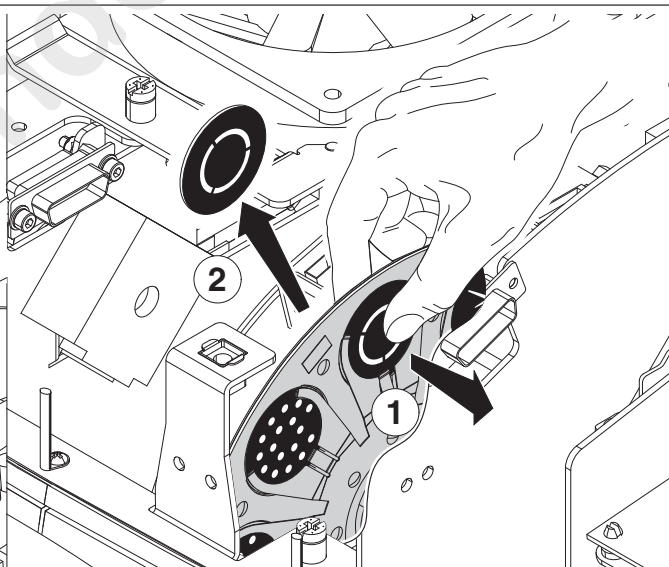
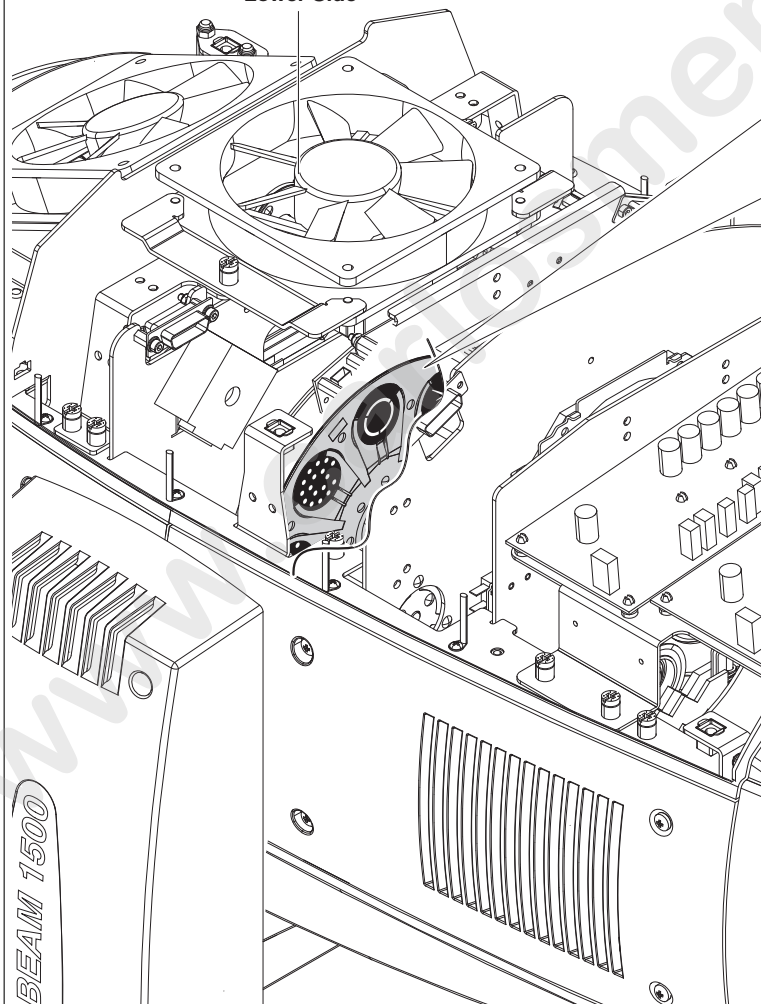
Upper Side



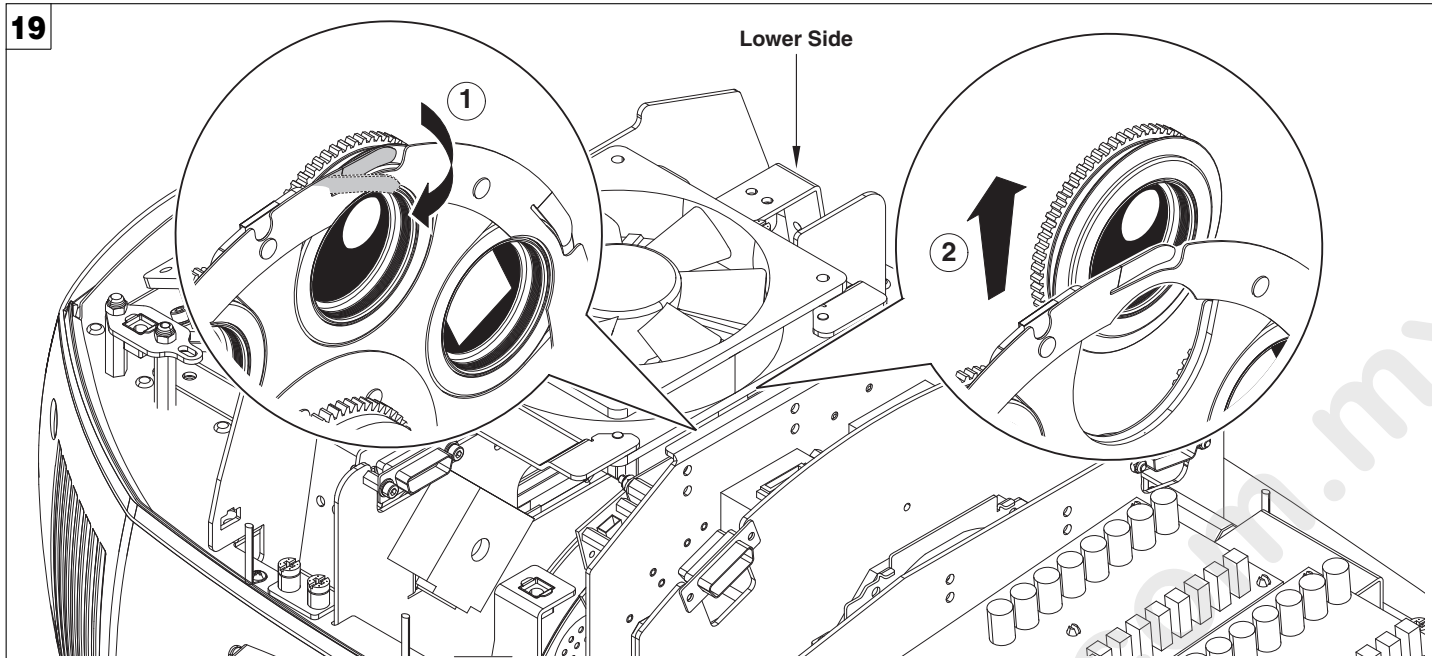
Fan support plate opening and closing (Upper side) - Fig. 17

18

Lower Side

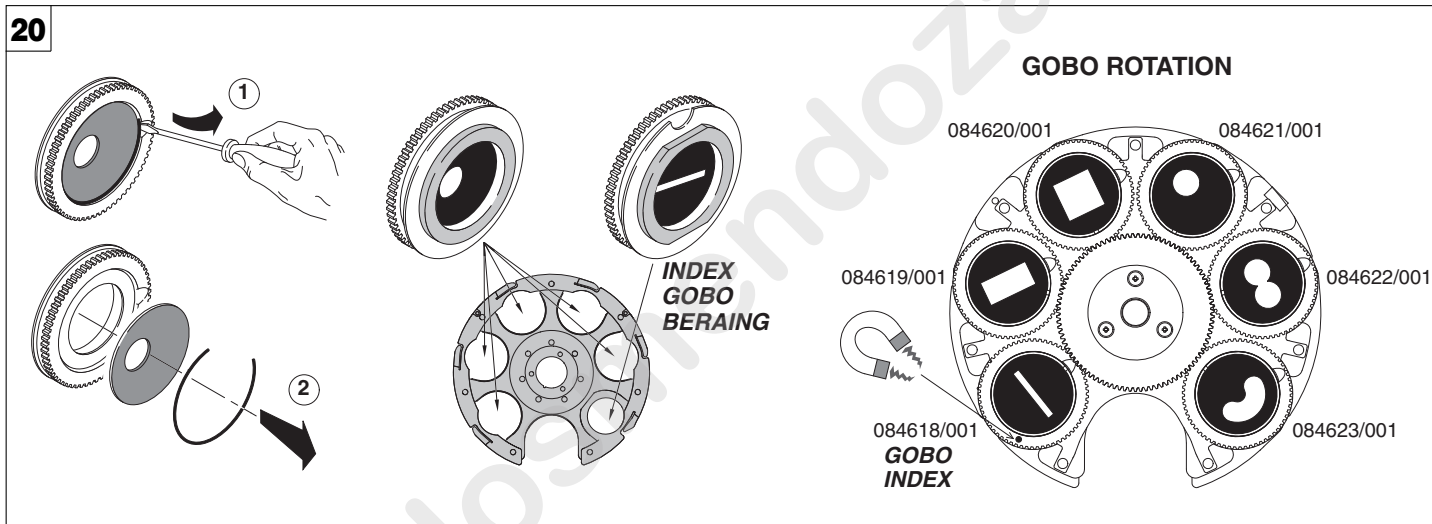
Replacing fixed gobos (\varnothing 31.5 mm - max 25 mm image - thickness max 1 mm) - Fig. 18**WARNING:** Before using personalised gobos contact Clay Paky.

19

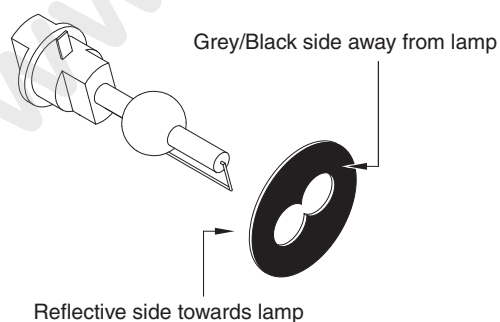
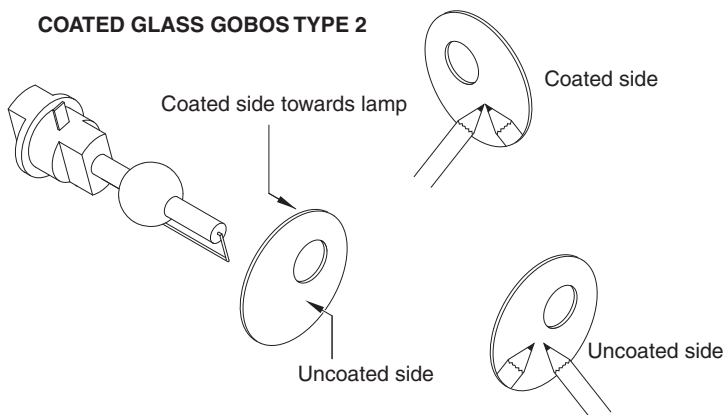


Bearing group replacement - Fig. 19

20

Replacing rotating gobos (\varnothing 37.5 mm - max 25 mm image – thickness 1 mm) - Fig. 20**IMPORTANT:** Use only glass gobos on the rotating gobos wheels.**WARNING:** Before using personalised gobos contact Clay Paky.

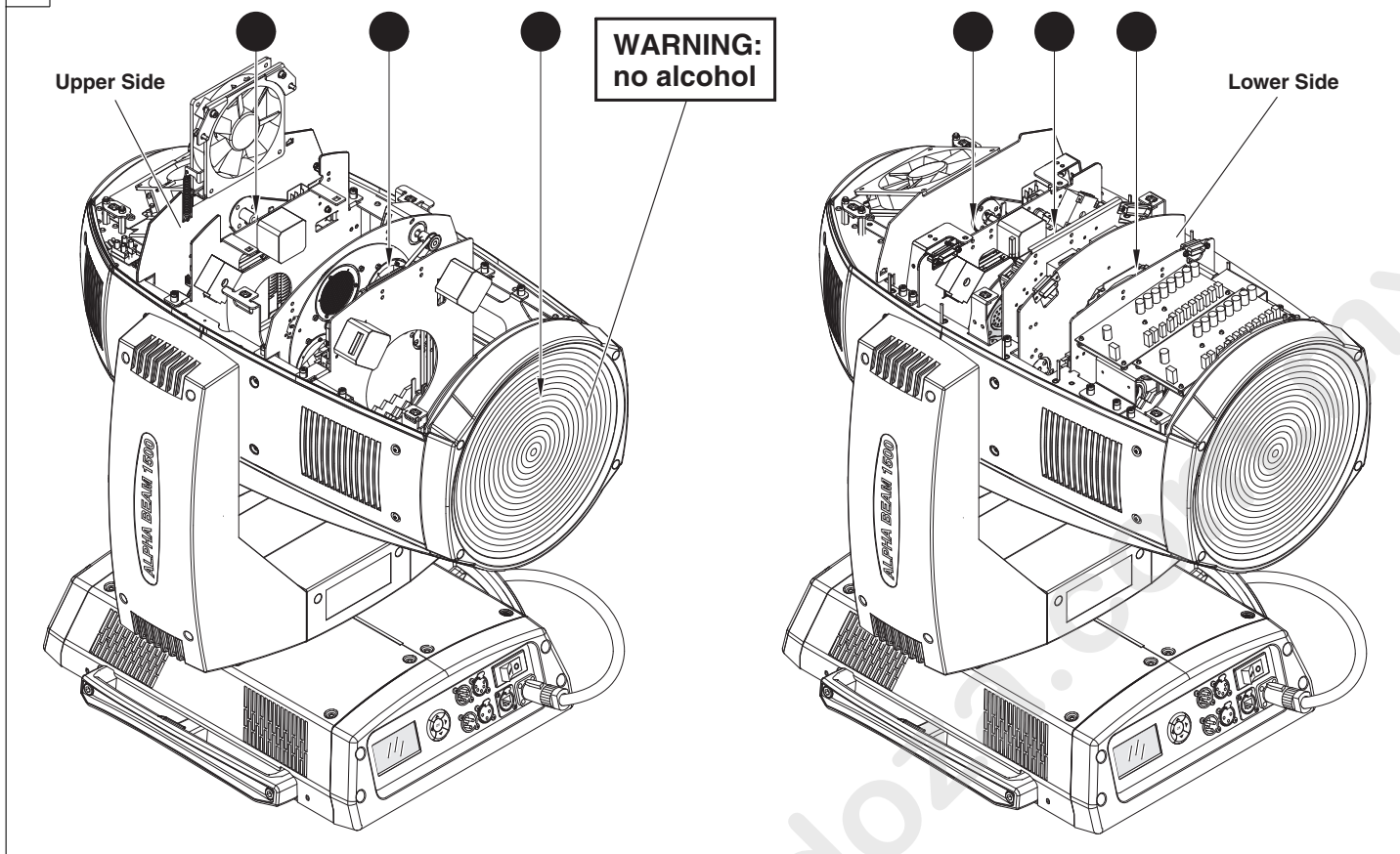
21

COATED GLASS GOBOS TYPE 1**COATED GLASS GOBOS TYPE 2**

To determine which side of a gobo is coated, hold an object up to it. On the uncoated side, there is a space between the object and its reflection.

Gobo orientation - Fig. 21

The pictures shown the correct gobos orientation.



Periodical cleaning - Fig. 22

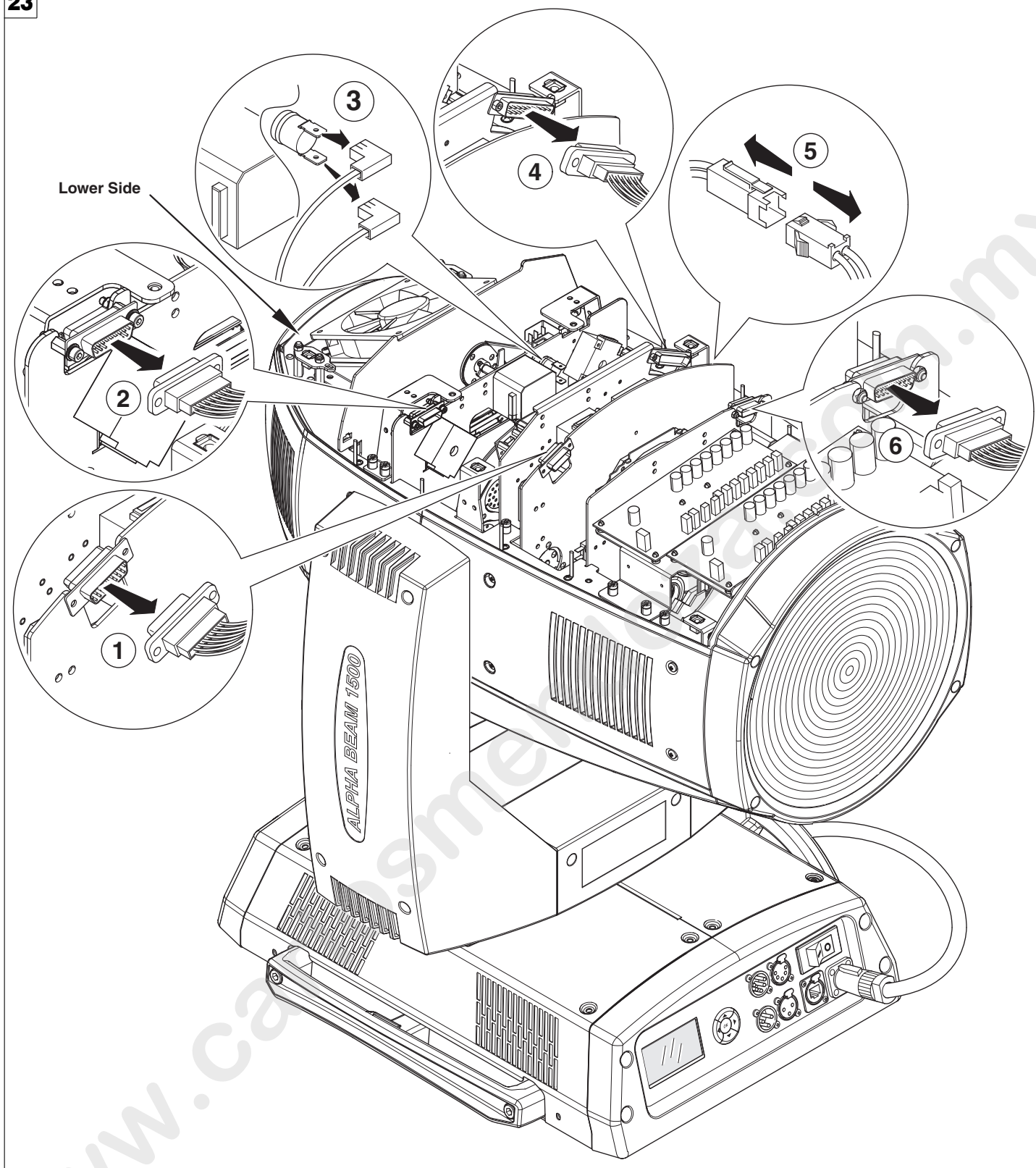
To ensure optimal operation and performance for a long time it is essential to periodically clean the parts subject to dust and grease deposits. The frequency with which the following operations are to be carried out depends on various factors, such as the amount of the effects and the quality of the working environment (air humidity, presence of dust, salinity, etc.).

Use a soft cloth dampened with any detergent liquid for cleaning glass to remove the dirt from the reflectors, from the lenses and filters. It is recommended that the projector undergoes an annual service by a qualified technician for special maintenance involving at least the following operations:

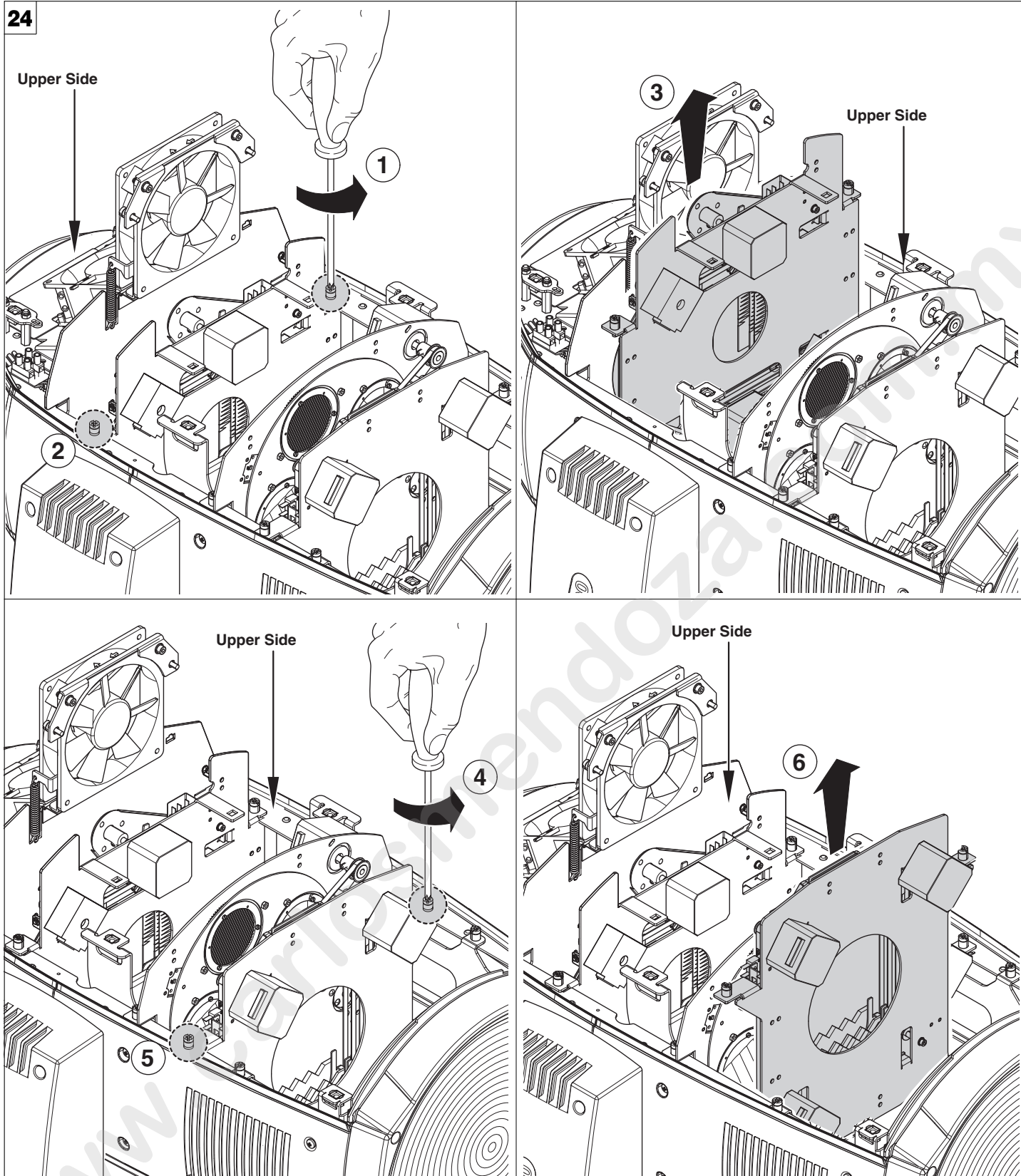
- General cleaning of internal parts.
- Restoring lubrication of all parts subject to friction, using lubricants specifically supplied by Clay Paky.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.

Cleaning the Fresnel lens

Only use neutral soap and water to clean the Fresnel lens, then dry it carefully with a soft, non-abrasive cloth. (WARNING: the use of alcohol or any other detergent could damage the lens).



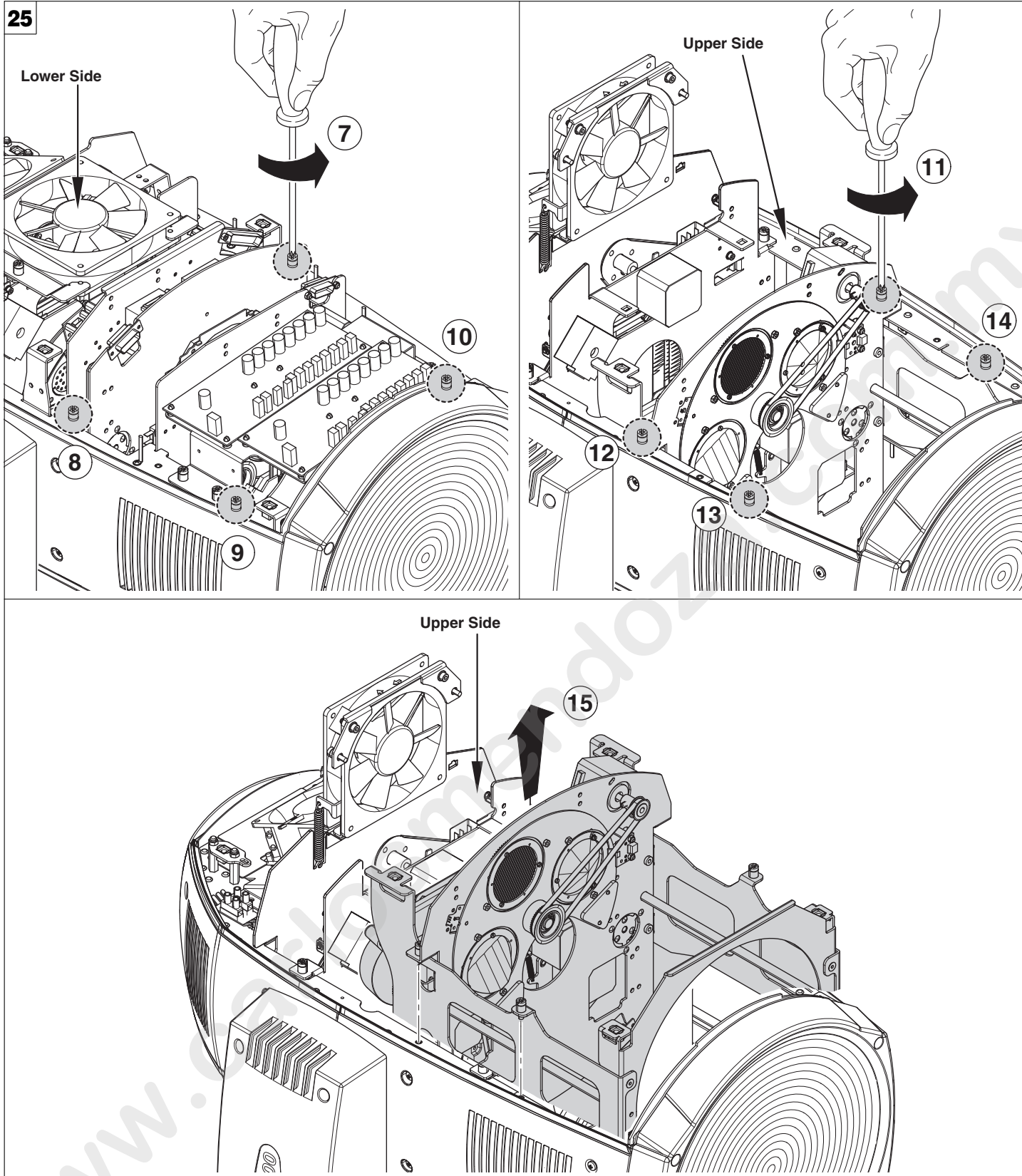
Extraction of the effect modules: Preliminary operations - Fig. 23



Extraction of the effect modules - Fig. 24

IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged.

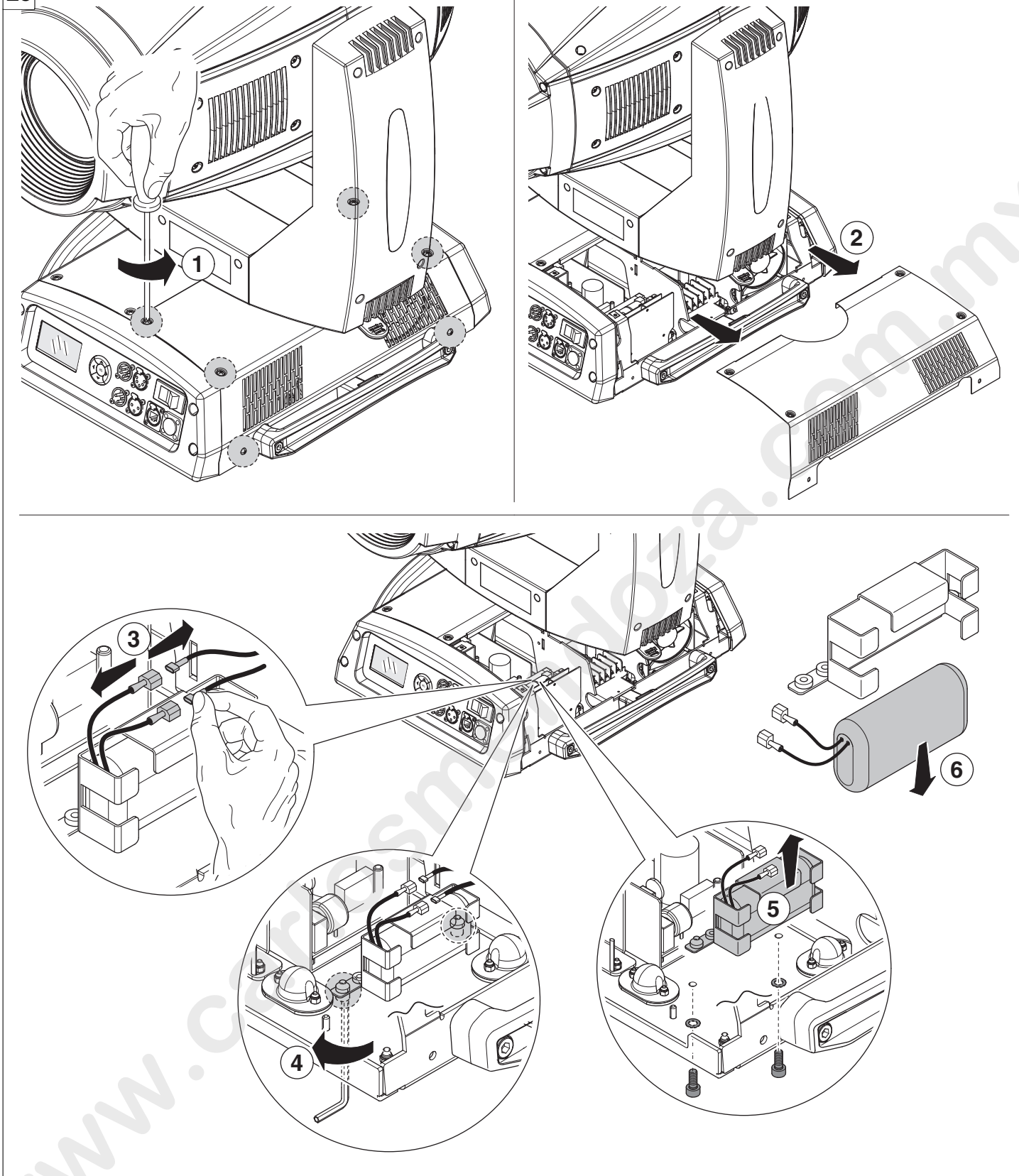
Insertion of the effect modules: Repeat the operations indicated in Fig. 24 and 25 in reverse order



Extraction of the effect modules - Fig 25

IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged.

Insertion of the effect modules: Repeat the operations indicated in Fig. 24 and 25 in reverse order



Battery removal - Fig. 26



LiFePO₄

This product contains a rechargeable lithium iron tetraphosphate battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

TECHNICAL INFORMATION

Power supplies available

200-240V 50/60Hz

Input power

2000VA a 230V 50Hz.

Lamp

Discharge lamp.

Type HTI 1500W/60/P50 Lok-it (Osram) (L10102)

- Cap PGJ50
- Colour temperature 6000 K
- Luminous flux 135000 lm
- Average life 750 h
- Any working position

Motors

20 stepper motors, operating with microsteps, totally microprocessor controlled.

Optical unit

Elliptic reflector with high luminous efficiency

Channels

Max 28 control channels.

Inputs

- DMX 512
- Ethernet

Moving head

- Movement by means of two stepper motors, controlled by microprocessor.
- Automatic repositioning of PAN and TILT after accidental movement not controlled by control unit.
- Travel:
 - PAN = 540°
 - TILT = 252°
- Maximum speeds:
 - PAN = 4.0 sec (360°)
 - TILT = 3.2 sec (252°)
- Resolution:
 - PAN = 2.11°
 - PAN FINE = 0.008°
 - TILT = 0.98°
 - TILT FINE = 0.004°

IP20 protection rating

- Protected against the entry of solid bodies larger than 12mm (0.47").
- No protection against the entry of liquids.

Safety Devices

- Bipolar circuit breaker with thermal protection.
- Automatic break in power supply in case of overheating or failed operation of cooling system.

Cooling

Forced ventilation with axial fans.

Body

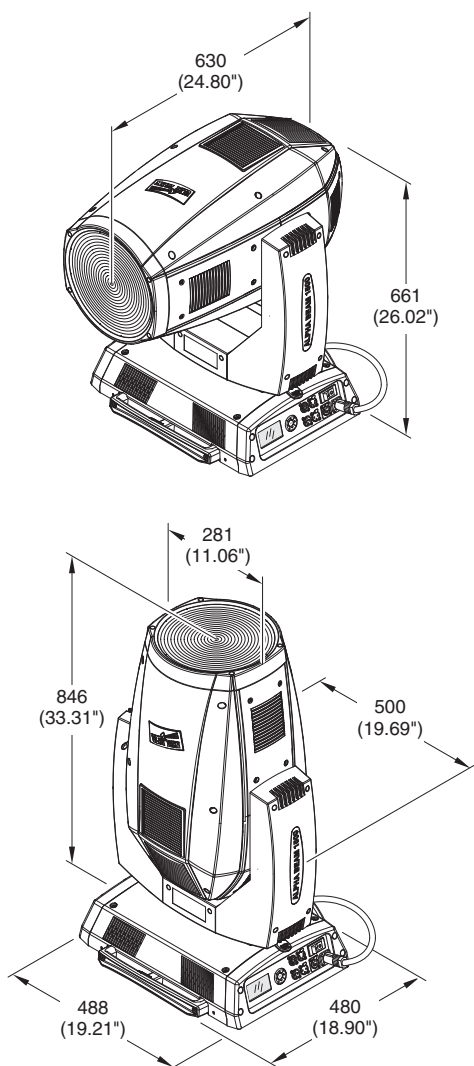
- Aluminium structure with die-cast plastic cover.
- Two side handles for transportation.
- Device locking PAN and TILT mechanisms for transportation and maintenance.

Working position

Working in any position.

Weights

Weight: about 40 kg (88 lbs).



CAUSE AND SOLUTION OF PROBLEMS

THE PROJECTOR WILL NOT SWITCH ON					PROBLEMS
ELECTRONICS NON-OPERATIONAL					
DEFECTIVE PROJECTION					
REDUCED LUMINOSITY					
POSSIBLE CAUSES				CHECKS AND REMEDIES	
●			No mains supply.	Check the power supply voltage.	
●		●	Lamp exhausted or defective.	Replace the lamp. (See instructions).	
	●		Signal transmission cable faulty or disconnected.	Replace the cables.	
	●		Incorrect addressing.	Check addresses (see instructions).	
	●		Fault in the electronic circuits.	Call an authorised technician.	
	●		Lenses or reflector broken	Call an authorised technician.	
		● ●	Dust or grease deposited.	Clean (see instructions).	

CHANNEL FUNCTION

ALPHA BEAM 1500

NB: To prevent accidental breakage of the effects, which could collide with each other during transport, before switching the projector OFF check that all the projector Channels have been excluded (DMX level = 0 bit).

CHANNEL	CHANNEL MODE	
	STANDARD	VECTOR
1	CYAN	CYAN
2	MAGENTA	MAGENTA
3	YELLOW	YELLOW
4	COLOUR WHEEL	COLOUR WHEEL
5	STOP / STROBE	STOP / STROBE
6	DIMMER	DIMMER
7	DIMMER FINE	DIMMER FINE
8	IRIS	IRIS
9	STATIC GOBO CHANGE	STATIC GOBO CHANGE
10	ROTATING GOBO CHANGE	ROTATING GOBO CHANGE
11	GOBO ROTATION	GOBO ROTATION
12	ROTATING PRISM CHANGE	ROTATING PRISM CHANGE
13	PRISM ROTATION	PRISM ROTATION
14	LIGHT FOST	LIGHT FROST
15	MEDIUM FROST	MEDIUM FROST
16	HEAVY FROST	HEAVY FROST
17	FOCUS	FOCUS
18	PAN	PAN
19	PAN FINE	PAN FINE
20	TILT	TILT
21	TILT FINE	TILT FINE
22	FUNCTION	FUNCTION
23	RESET	RESET
24	LAMP CONTROL (with Option "Lamp Dmx" ON)	LAMP CONTROL (with Option "Lamp Dmx" ON)
25		PAN - TILT TIME
26		COLOUR TIME
27		BEAM TIME
28		GOBO TIME

NOTE: On conclusion of resetting in case of absence of DMX signal, Pan & Tilt move to the "Home" position (Pan 50% - Tilt 50%) all the others channels stay at 0%.

• COLOUR MIXING - channel 1 - 2 - 3

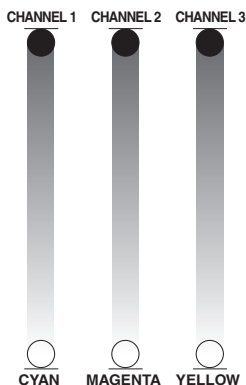
Operation with option color mixing: RGB



BIT	EFFECT
255	COLOUR EXCLUDED
0	COLOUR INSERTED

IMPORTANT: The lamp dim to half power 1 second after all the 3 channels stay at 0% level. The lamp goes back to full power when the channels level is put higher than 0%.

Operation with option color mixing: CMY



BIT	EFFECT
255	COLOUR INSERTED
0	COLOUR EXCLUDED

IMPORTANT: The lamp dim to half power 1 second after all the 3 channels stay at 100% level. The lamp goes back to full power when the channels level is put lower than 100%.

• COLOUR WHEEL - channel 4



BIT	EFFECT
255	FAST ROTATION (160 rpm)
128	SLOW ROTATION (0,2 rpm)
119-127	BLUE + WHITE
110-118	BLUE
101-109	ORANGE + BLUE
92-100	ORANGE
83-91	AQUAMARINE + ORANGE
74-82	AQUAMARINE
64-73	GREEN + AQUAMARINE
55-63	GREEN
46-54	CTO 3200 + GREEN
37-45	CTO 3200
28-36	RED + CTO 3200
19-27	RED
10-18	WHITE + RED
0-9	WHITE

• STOP / STROBE - channel 5



BIT	EFFECT
252 - 255	OPEN
239 - 251	RANDOM FAST STROBE
226 - 238	RANDOM MEDIUM STROBE
213 - 225	RANDOM SLOW STROBE
208 - 212	OPEN
207	FAST PULSATION
108	SLOW PULSATION
104 - 107	OPEN
103	FAST STROBE (12 flash/sec)
4	SLOW STROBE (1 flash/sec)
0 - 3	CLOSED

IMPORTANT: The lamp dim to half power 1 second after the channel stay at 0% level. The lamp goes back to full power when the channel level is put higher than 0%.

• DIMMER - channel 6



BIT	EFFECT
255	
0	

The lamp is linearly dimmed from full power to half power electronically and mechanically from half power to off.

• DIMMER FINE - channel 7



BIT	EFFECT
255	
0	

• IRIS - channel 8



BIT	EFFECT
252 - 255	MAXIMUM APERTURE
251	FAST PULSATION, FAST CLOSING
212	SLOW PULSATION, FAST CLOSING
211	FAST PULSATION, FAST OPENING
172	SLOW PULSATION, FAST OPENING
171	FAST PULSATION
132	SLOW PULSATION
128 - 131	MAXIMUM APERTURE
0	MINIMUM APERTURE

• STATIC GOBO CHANGE - channel 9

BIT	EFFECT
255	GOBO 8 SHAKE, FAST SPEED
244	GOBO 8 SHAKE, SLOW SPEED
243	GOBO 7 SHAKE, FAST SPEED
232	GOBO 7 SHAKE, SLOW SPEED
231	GOBO 6 SHAKE, FAST SPEED
220	GOBO 6 SHAKE, SLOW SPEED
219	GOBO 5 SHAKE, FAST SPEED
208	GOBO 5 SHAKE, SLOW SPEED
207	GOBO 4 SHAKE, FAST SPEED
196	GOBO 4 SHAKE, SLOW SPEED
195	GOBO 3 SHAKE, FAST SPEED
184	GOBO 3 SHAKE, SLOW SPEED
183	GOBO 2 SHAKE, FAST SPEED
172	GOBO 2 SHAKE, SLOW SPEED
171	GOBO 1 SHAKE, FAST SPEED
160	GOBO 1 SHAKE, SLOW SPEED
159	FAST ROTATION (100 rpm)
118	SLOW ROTATION (5 rpm)
114 - 117	STOP
113	SLOW ROTATION (5 rpm)
72	FAST ROTATION (100 rpm)
64 - 71	GOBO 8
56 - 63	GOBO 7
48 - 55	GOBO 6
40 - 47	GOBO 5
32 - 39	GOBO 4
24 - 31	GOBO 3
16 - 23	GOBO 2
8 - 15	GOBO 1
0 - 7	WHITE

• GOBO ROTATION - channel 11

BIT	EFFECT
255	FAST ROTATION (150 rpm)
193	SLOW ROTATION (2,2 rph)
191 - 192	STOP
190	SLOW ROTATION (2,2 rph)
128	FAST ROTATION (150 rpm)
127	540° POSITION
105	450° POSITION
84	360° POSITION
63	270° POSITION
42	180° POSITION
21	90° POSITION
0	0° POSITION

• ROTATING PRISM CHANGE - channel 12

BIT	EFFECT
192-255	6 FACE PRISM
128-191	OVALYZER
64-127	5 FACE PRISM
0 - 63	WHITE

• ROTATING GOBO CHANGE - channel 10

BIT	EFFECT
255	GOBO 6 SHAKE, FAST SPEED
235	GOBO 6 SHAKE, SLOW SPEED
234	GOBO 5 SHAKE, FAST SPEED
214	GOBO 5 SHAKE, SLOW SPEED
213	GOBO 4 SHAKE, FAST SPEED
193	GOBO 4 SHAKE, SLOW SPEED
192	GOBO 3 SHAKE, FAST SPEED
172	GOBO 3 SHAKE, SLOW SPEED
171	GOBO 2 SHAKE, FAST SPEED
151	GOBO 2 SHAKE, SLOW SPEED
150	GOBO 1 SHAKE, FAST SPEED
130	GOBO 1 SHAKE, SLOW SPEED
112-129	GOBO 6
93-111	GOBO 5
75-92	GOBO 4
56-74	GOBO 3
38-55	GOBO 2
19-37	GOBO 1
0-18	WHITE

• PRISM ROTATION - channel 13

BIT	EFFECT
255	FAST ROTATION (120 rpm)
193	SLOW ROTATION (3 rph)
191 - 192	STOP
190	SLOW ROTATION (3 rph)
128	FAST ROTATION (120 rpm)
127	POSITION 540°
105	POSITION 450°
84	POSITION 360°
63	POSITION 270°
42	POSITION 180°
21	POSITION 90°
0	POSITION 0°

• LIGHT FOST - channel 14



BIT	EFFECT
255	FROST INSERTED
128	
127	
0	FROST EXCLUDED

• MEDIUM FROST - channel 15



BIT	EFFECT
255	FROST INSERTED
128	
127	
0	FROST EXCLUDED

• HEAVY FROST - channel 16



BIT	EFFECT
255	FROST INSERTED
128	
127	
0	FROST EXCLUDED

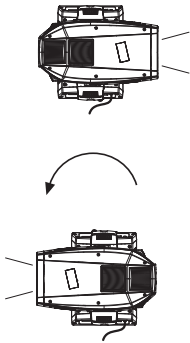
• FOCUS - channel 17



BIT	EFFECT
255	NEAR
128	
127	
0	DISTANT

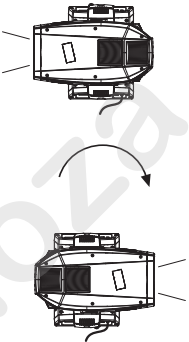
• PAN - channel 18

Operation with option InvertPan \diamond Off
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)



BIT
255
128
127
0

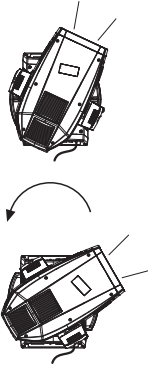
Operation with option InvertPan \diamond On
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)



BIT
255
128
127
0

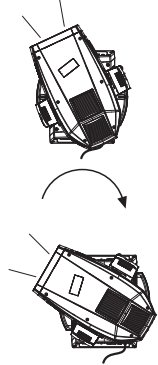
• PAN FINE - channel 19

Operation with option InvertPan \diamond Off
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)



BIT
255
128
127
0

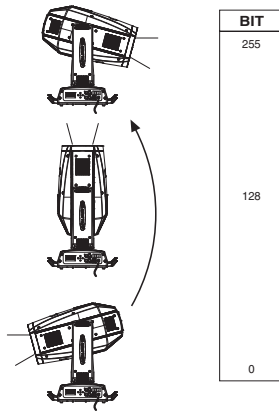
Operation with option InvertPan \diamond On
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)



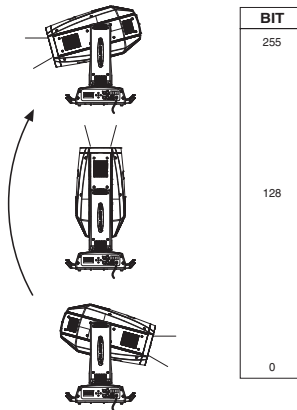
BIT
255
128
127
0

• TILT - channel 20

Operation with option Invert Tilt \diamond Off
(Pan conventionally represented at 0% and option Invert Pan \diamond Off)

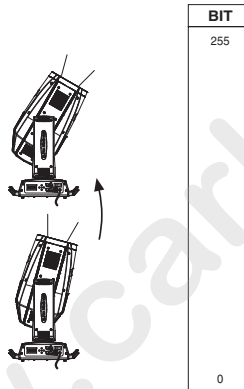


Operation with option Invert Tilt \diamond On
(Pan conventionally represented at 0% and option Invert Pan \diamond Off)

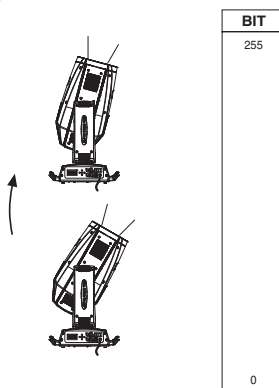


• TILT FINE - channel 21

Operation with option Invert Tilt \diamond Off
(Pan conventionally represented at 0% and option Invert Pan \diamond Off)



Operation with option Invert Tilt \diamond On
(Pan conventionally represented at 0% and option Invert Pan \diamond Off)



• FUNCTION - channel: 22

BIT	EFFECT	
255	FREE	
52		
51		
39		
26	LINEAR (DEFAULT)	DIMMER CURVE FUNCTION
13	CONVENTIONAL	
0-12	NORMAL SPEED	PAN-TILT FUNCTION
	FAST SPEED (DEFAULT)	
	UNUSED RANGE	

The functions are activated passing through unused range and staying 5 seconds in necessary level.

• RESET - channel: 23

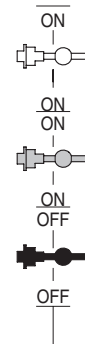
BIT	%	EFFECT
255	100	COMPLETE RESET
128	50.0	COMPLETE RESET PAN / TILT RESET
127	49.7	
77	30.0	PAN / TILT RESET EFFECTS RESET
76	29.7	
26	10.0	EFFECTS RESET
25	9.7	
0	0.0	UNUSED RANGE

The functions are activated passing through unused range and staying 5 seconds in necessary level.

• LAMP CONTROL (only with option LAMP DMX On) - channel: 24

IMPORTANT: Alpha Beam 1500 is not provided with hot restrike igniter

BIT	EFFECT
255	LAMP ON (FULL POWER)
180	LAMP ON (FULL POWER) LAMP ON (HALF POWER)
179	
101	LAMP ON (HALF POWER)
100	LAMP OFF
26	LAMP OFF
25	LAMP OFF
0	UNUSED RANGE



The functions are activated passing through unused range and staying 5 seconds in necessary level.

TIMING CHANNELS

	Timing Channel	Channel function
25	Pan - Tilt time	Pan - Tilt - (Pan fine - Tilt fine)
26	Colour time	CMY - Colour wheel
27	Beam time	Dimmer - Light Frost - Medium Frost - Heavy Frost - Iris - Rotating Prism Change
28	Gobo time	Fixed Gobo - Rotating Gobo Change

TIME TABLE

BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds
0	Full	43	8.6	86	24	129		172		216	170
1	0.2	44	8.8	87		130	41	173	58	217	
2	0.4	45	9	88		131		174		218	
3	0.6	46	9.2	89	25	132	42	175		219	180
4	0.8	47	9.4	90		133		176	59	220	
5	1	48	9.6	91	26	134		177		221	190
6	1.2	49	9.8	92		135	43	178	60	222	
7	1.4	50	10	93		136		179		223	200
8	1.6	51	10.2	94	27	137	44	180	65	224	
9	1.8	52	10.4	95		138		181		225	210
10	2	53	10.6	96	28	139	45	182		226	
11	2.2	54	11	97		140		183	70	227	220
12	2.4	55		98	29	141		184		228	
13	2.6	56	12	99		142	46	185	75	229	230
14	2.8	57		100	30	143		186		230	
15	3	58	13	101		144	47	187	80	231	230
16	3.2	59		102	31	145		188		232	240
17	3.4	60	14	103		146	48	189		233	
18	3.6	61		104	32	147		190	85	234	250
19	3.8	62	15	105		148	49	191		235	
20	4	63		106	33	149		192	90	236	260
21	4.2	64	16	107		150	50	193		237	
22	4.4	65		108	34	151		194	95	238	270
23	4.6	66	17	109		152	51	195		239	
24	4.8	67		110	35	153		196	100	240	280
25	5	68	18	111		154	52	197		241	
26	5.2	69		112	36	155		198	110	242	290
27	5.4	70	19	113		156	53	199		243	
28	5.6	71		114	37	157		200	120	244	300
29	5.8	72	20	115		158	54	201		245	
30	6	73		116	38	159		202	130	246	310
31	6.2	74	21	117		160	55	203		247	
32	6.4	75		118	39	161		204	140	248	
33	6.6	76	22	119		162	56	205		249	
34	6.8	77		120	40	163		206	150	250	
35	7	78	23	121		164		207		251	Follow cue Data
36	7.2	79		122		165	57	208		252	
37	7.4	80		123		166		209	160	253	
38	7.6	81		124		167		210		254	
39	7.8	82		125		168		211			
40	8	83		126		169		212			
41	8.2	84		127		170		213			
42	8.4	85		128		171		214			
								215			

