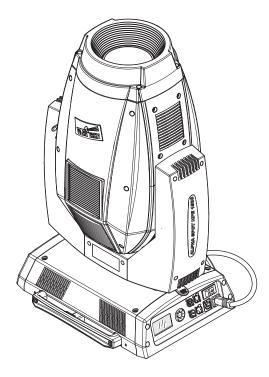


ALPHA SPOT HPE 1500 C61325

INSTRUCTION MANUAL



	INDEX				
Pag.	Contents				
2	Safety information				
3	Unpacking and preparation				
4	Installation and start-up				
5	Control panel				
7	Menu setting				
15	Maintenance				
23	Technical information				
23	Cause and solution of problems				
24	Channel functions				

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

Installation

Make sure all parts for fixing the projector are in a good state of repair. Make sure the point of anchorage is stable before positioning the projector. The safety chain must be properly hooked onto the fitting and secured to the framework, so that, if the primary support system fails, the fitting falls as little as possible. If the safety chain gets used, it needs to be replaced with a genuine spare.

Minimum distance of illuminated objects

The projector needs to be positioned so that the objects hit by the beam of light are at least 5 metres (16'5'') from the lens of the projector.

Minimum distance from flammable materials

The projector must be positioned so that any flammable materials are at least 0.20 metres (8") from every point on the surface of the fitting.

Mounting surfaces

It is permissible to mount the fitting on normally flammable surfaces.

t_a 40°C

F,

<u>5</u> m

1500W

IP20



t_c 150°C









CE

Maximum ambient temperature

Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C (104° F).

IP20 protection rating

The fitting is protected against penetration by solid bodies of over 12mm (0.47") in diameter (first digit 2), but not against dripping water, rain, splashes or jets of water (second digit 0).

Protection against electrical shock

Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1).

It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

· Connection to mains supply

Connection to the electricity mains must be carried out by a qualified electrical installer.

Check that the mains frequency and voltage correspond to those for which the projector is designed as given on the electrical data label.

This label also gives the input power to which you need to refer to evaluate the maximum number of fittings to connect to the electricity line, in order to avoid overloading.

• Temperature of the external surface

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 150°C (302°F).

Maintenance

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply. After switching off, do not remove any parts of the fitting for at least 10 minutes. After this time the likelihood of the lamp exploding is virtually nill. If it is necessary to replace the lamp, wait for another 20 minutes to avoid getting burnt.

The fitting is designed to hold in any splinters produced by a lamp exploding. The lenses must be mounted and, if visibly damaged, they have to be replaced with genuine spares.

• Lamp

The fitting mounts a high-pressure lamp that needs an external igniter. This igniter is fitted onto the apparatus.

- Carefully read the "operating instructions" provided by the lamp manufacturer.
- Immediately replace the lamp if damaged or deformed by heat.

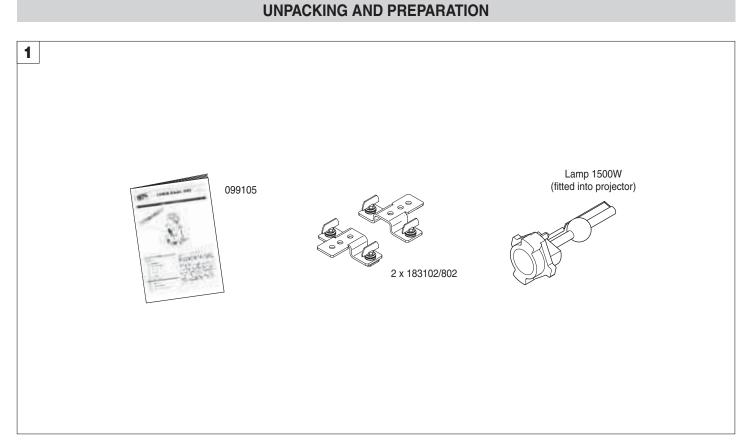
Battery

This product contains a rechargeable lead-acid battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force. Instructions on how to remove the battery from the product are available on **www.claypaky.it**

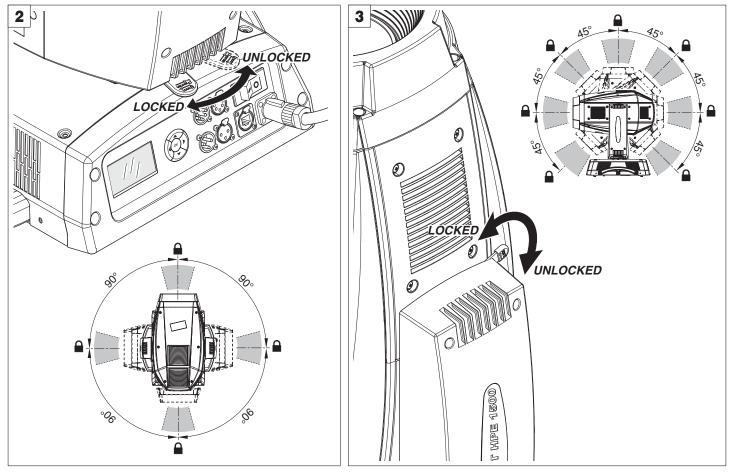
The products referred to in this manual conform to the European Community Directives to which they are subject:

Low Voltage 2006/95/CE

Electromagnetic Compatibility 2004/108/CE



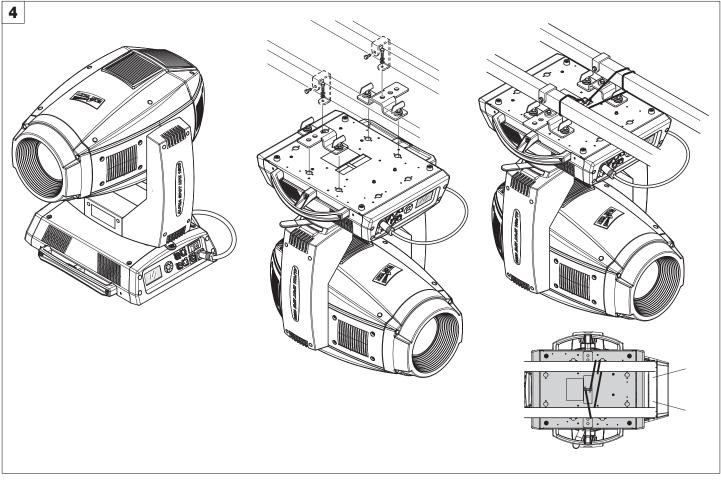
Packing contents - Fig. 1



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

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

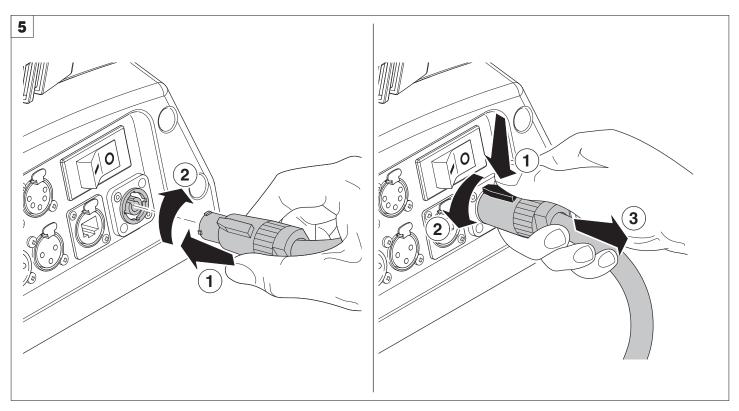
INSTALLATION AND START-UP



Installing the projector - Fig. 4

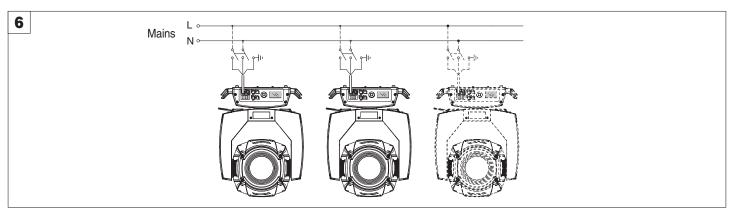
The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.

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). This must be securely fixed to the support structure of the projector and then connected to the fixing point at the centre of the base.

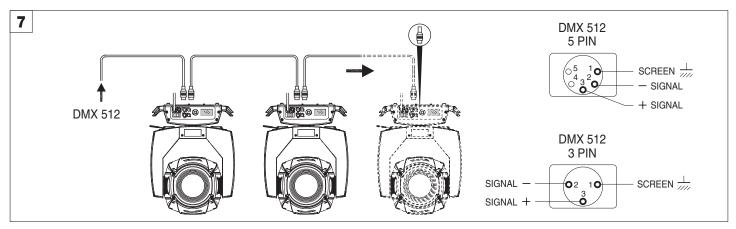


Connecting and disconnecting power cable - Fig. 5

CONTROL PANEL

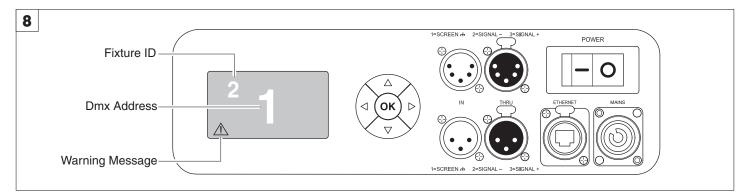


Connecting to the mains supply - Fig. 6



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

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 1200hm 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 1200hm (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.

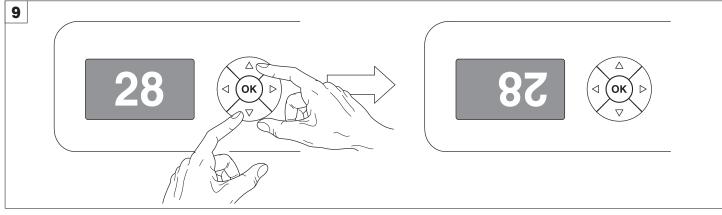


Switching on the projector - Fig. 8

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



On conclusion of resetting in case of absence of dmx signal, Pan and Tilt move to the "Home" position (Pan 50% - Tilt 50%). 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 than when this condition occurs, any possible value that has been modified but not yet confirmed with the (we will be cancelled.



Reversal of the display - Fig. 9

To activate this function, press UP (and DOWN (between the 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 address: see pag. 8.

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.

Setting the Fixture ID: see pag. 8.

Functions of the buttons - Using the menu

OK	Confirms the displayed value, or activates the displayed function, or enters the successive menu.
DOWN	Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.
UP	Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.
LEFT	Return to the top level
RIGHT	Commute from units, tens, hundreds, in the "Address", "Fixture ID" and "Calibration" menù.

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 functionning of effects.
- Advanced (Advanced Menu): Access to the "Advanced menu" is recommended for a trained technical personnel.
- To enable the "Advanced" see pag. 14

3) Press 🐼 to display the first item in the selected menu.

4) Use the UP \bigcirc and DOWN \bigcirc keys to select the MENU items.

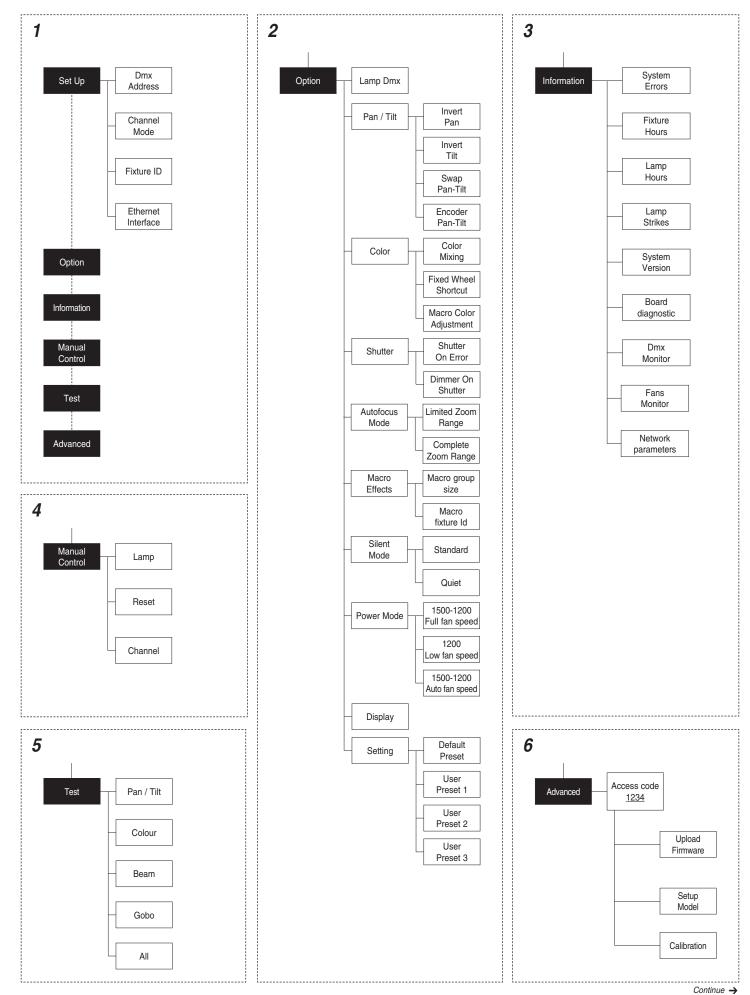
Setting addresses and options with the projector disconnected

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.

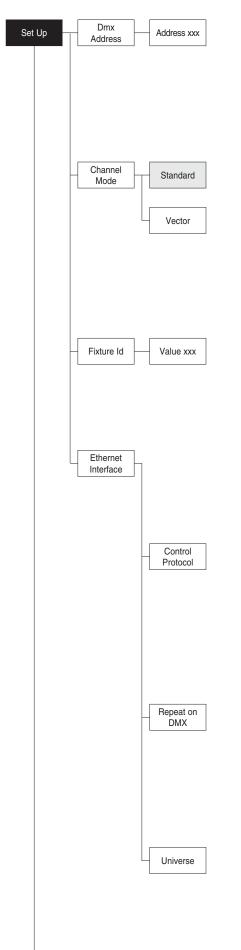
ALPHA SPOT HPE 1500

MENU SETTING

MAIN MENU



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 () - the current DMX Adress appear on the display.

- 2) Use the UP (a), DOWN (c), RIGHT (b) keys to plan the DMX Address.
- 3) Press (6) to confirm the selection or LEFT (1) to keep current settings.

CHANNEL MODE

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

- 1) Press 🛞 the current settings appear on the display (Standard or Vector).
- Use the UP → and DOWN → keys to select one of the following settings:
 - Standard
 - Vector
- Press (to confirm the selection or LEFT (to keep current settings.

FIXTURE ID

Allows you to select the FIXTURE ID

- 1) Press \bigotimes the current Fixture ID appear on the display.
- 2) Use the UP (a), DOWN (c), RIGHT (b) keys to plan the Fixture ID.
- 3) Press is 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 🛞.

Control Protocol

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

- 1) Press the current setting appears on the display.
- - Art-net on IP 2
 - Art-net on IP 10

3) Press (K) to confirm the selection or LEFT (1) to keep the current setting.

Repeat on DMX

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

- 1) Press 🛞 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 🛞 to confirm the selection or LEFT 🕥 to keep the current setting.

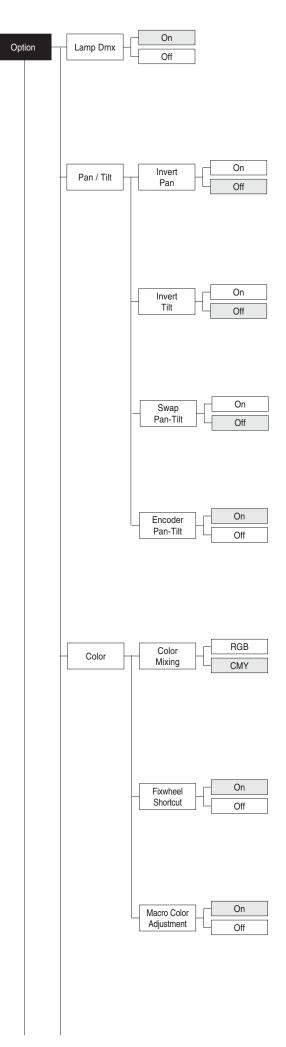
Universe

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

1) Press N – the current Universe address appears on the display.

2) Use the UP (a), DOWN (c), RIGHT (b) keys to set the Universe address.

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



OPTIONS MENU

LAMP DMX

Used for enabling lamp remote control channel.

- 1) Press 0 the current settings appear on the display (On or Off).
- Use the UP and DOWN keys to enable (On) or disable (Off) the lamp remote control channel.
- 3) Press 🛞 to confirm the selection or LEFT 🜒 to keep current settings.

PAN / TILT

Invert pan

Used for reversing Pan movement.

- 1) Press 🛞 the current settings appear on the display (On or Off).
- Use the UP → and DOWN → keys to enable (On) or disable (Off) PAN inversion.
- 3) Press 🛞 to confirm the selection or LEFT 🜒 to keep current settings.

Invert tilt

Used for reversing tilt movement.

- 1) Press 🛞 the current settings appear on the display (On or Off).
- Use the UP → and DOWN → keys to enable (On) or disable (Off) Tilt inversion.
- 3) Press 🛞 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 (→) - 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 (K) to confirm the selection or LEFT (1) tto keep current settings.

Encoder Pan-Tilt

Used for enabling the Pan / Tilt encoders.

- 1) Press 🐵 the current settings appear on the display (On or Off).
- Use the UP and DOWN keys to enable (On) or disable (Off) Pan / Tilt encoders.
- 3) Press 🛞 to confirm the selection or LEFT 🜒 to keep current settings.

COLOR

Color mixing

Used for reversing the CMY color mixing system.

1) Press 🛞 - the current settings appear on the display (On or Off).

- 3) Press 🛞 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.

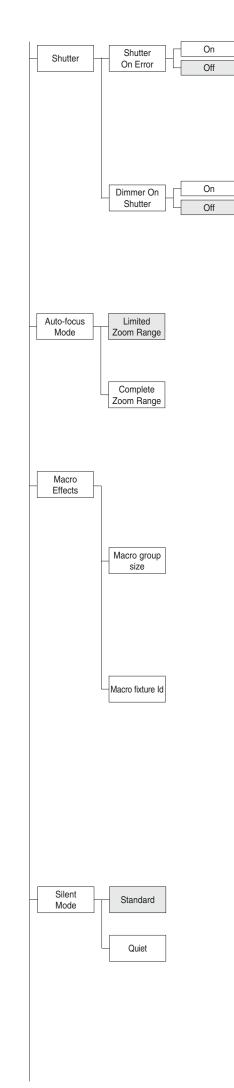
- 1) Press 🛞 the current settings appear on the display (On or Off).
- Use the UP and DOWN keys to enable (On) or disable (Off) color change optimization.
- Press (b) to confirm the selection, or LEFT (c) to keep current settings.

Macro color adjustment

It lets you enable the overwriting of a "Macro Colour" with the Cyan, Magenta, Yellow, CTO and Colour wheel channels.

Press the current setting appears on the display.

- Use the UP and DOWN keys to enable (On) or disable (Off) the overwriting.
- 2) Press (k) to confirm the selection or LEFT (to keep the current setting.



SHUTTER

Shutter on error

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

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

AUTO-FOCUS MODE

It lets you select the "Auto-focus Mode" from the two available.

- 1) Press or the current setting appears on the display.
- Use the UP

 and DOWN
 keys to select one of the following settings: Limited Zoom Range: The "Autofocus" works only in the optical run that was specifically designed for the projector in question.

Complete Zoom Range: The "Autofocus" also works in overrun

3) Press is to confirm the selection or LEFT () to keep the current setting.

MACRO EFFECTS

- It lets you select the "Macro Effects" set up from the two available.
- 1) Press \bigotimes the current setting appears on the display.
- 2) Use the UP (and DOWN (keys to select one of the following settings:

Macro group size

It lets you set the number of projectors to be included in the macro mode operation.

- 1) Press 🞯

3) Press 🛞 to confirm the selection or LEFT 🜒 to keep the current setting.

Macro fixture Id

It lets you attribute an ID address to the projector for the phase displacement for the scene's starting time in Macro mode.

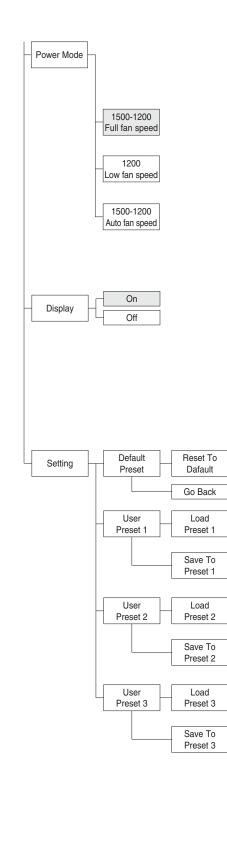
- 1)Press 🞯

Auto by DMX Address: According to the DMX address, it automatically detects the starting sequence of the scene in the Macro mode (to assign to all the projectors to be included in the Macro operation).

3) Press 🛞 to confirm the selection or LEFT 🜒 to keep the current setting.

SILENT MODE

- It lets you select the "Silent Mode" from the two available.
- 1) Press 🛞 the current setting appears on the display.
- 3) Press 🛞 to confirm the selection or LEFT 🕥 to keep the current setting.



POWER MODE

Allows you to select a Power Mode from the three available.

1) Press 🛞 - the current settings appear on the display.

- 2) Use the UP and DOWN keys to select one of the following settings:
 1500-1200W Full fan speed: Lamp can change from full-power (1500W) to half-power (1200W) using the LAMP CONTROL channel. Fans always work at Full speed
 - **1200W Low fan speed**: Lamp constantly works in half-power mode (1200W) while the Fan always works at Low speed. With LAMP CONTROL channel you can only switch the lamp ON and OFF.
 - **1500-1200W Auto fan speed**: Lamp can change from full-power (1500W) to half-power (1200W) using the LAMP CONTROL channel. Automatically the fans switch from Full speed to Low speed respectively.

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

DISPLAY

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

- 1) Press 🞯 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 🐼 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.

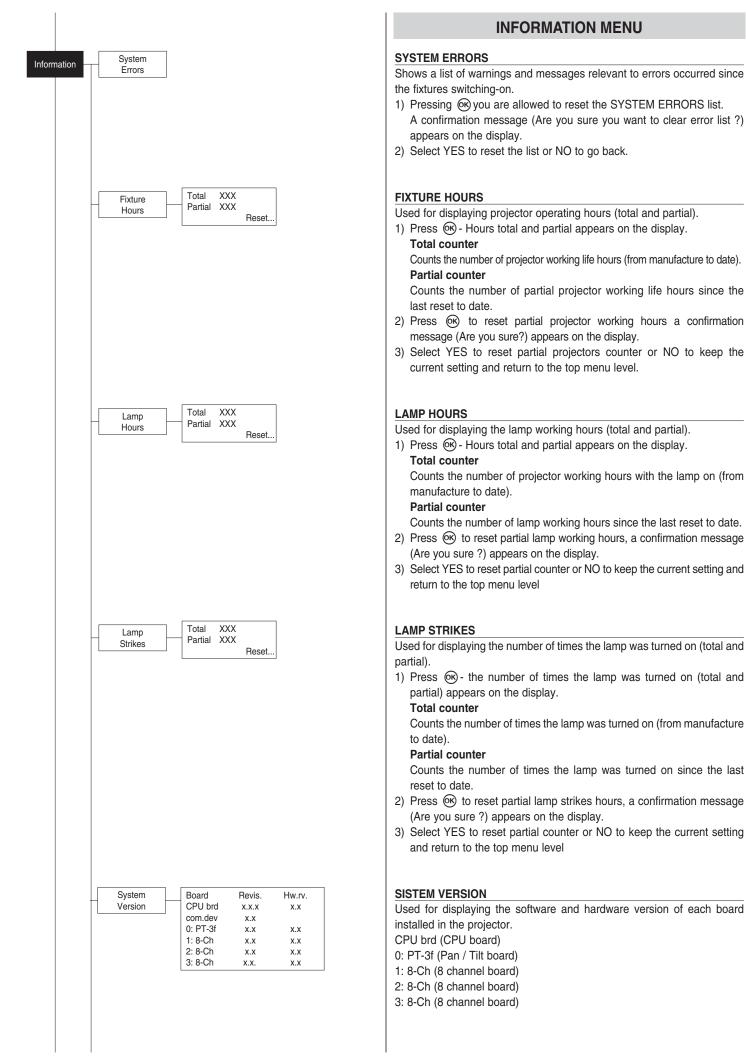
- 1) Press 🐼 "Default preset" appears on the display.
- Use the UP → and DOWN → keys to select one of the following configurations:
 - Default preset (*)
 - User preset 1
 - User preset 2
 - User Preset 3
- 3) Press 🛞 "Load preset X" appears on the display.
- 4) Use the UP (and DOWN (keys to select:
 - 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.

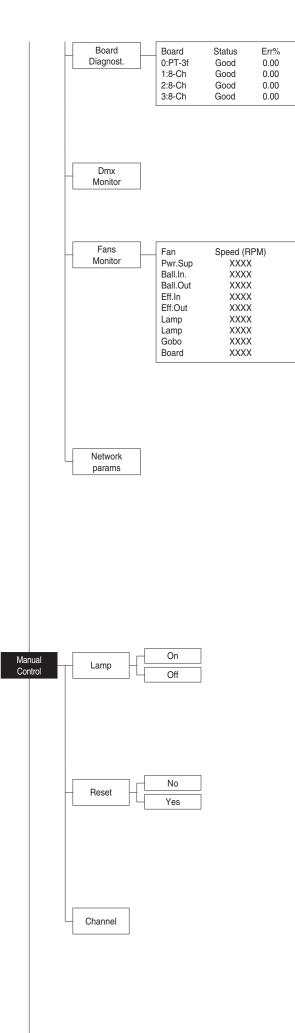
(*) DEFAULT PRESET

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

- 1) Press Ø, a confirmation message (Are you sure?) appears on the display.
- 2) Select YES to confirm the selction 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
Macro Color Adjustment	On
Shutter on error	Off
Dimmer on Shutter	Off
Auto-focus mode	Limited zoom range
Silent mode	Standard
Power mode	1500-1200w full fan speed
Display	On





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)

3: 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) Lamp (Lamp Fan) Lamp (Lamp Fan) Gobo (Gobo Fan) Board (Yoke Board Fan)

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:

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 🛞 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 (to confirm the selection or LEFT (to keep current settings and return to the top level.

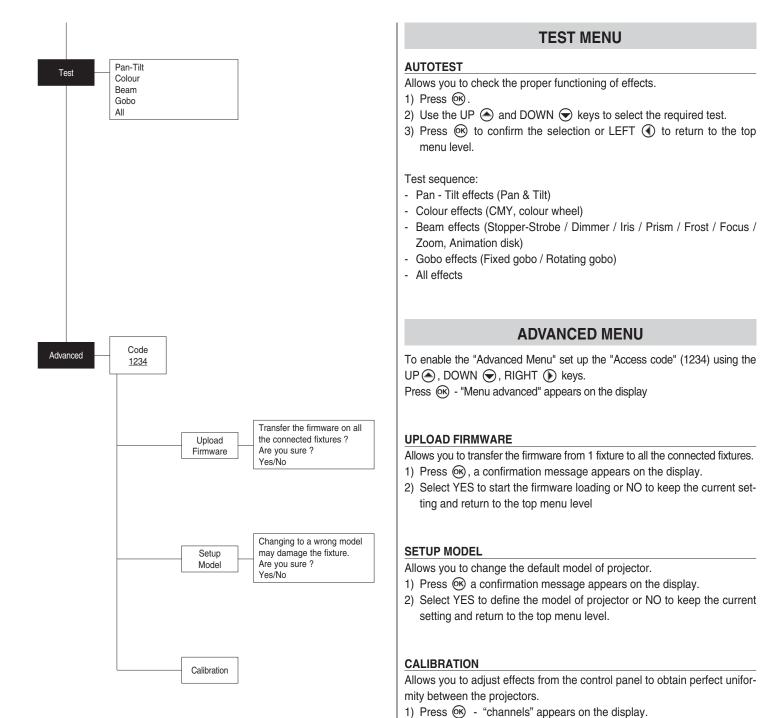
RESET

Used for resetting the projector.

- 1) Press 🛞 to reset the projectors, a confirmation message (Are you sure ?) appears on the display.
- 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 0 the first channel appears on the display.
- 2) Use the UP \bigcirc and DOWN \bigcirc keys to select the required channel:
- 3) Press ⊛ and use the UP ④ and DOWN ⊙ keys to select the required DMX level (value between 0 and 255).
- 4) Press LEFT (to return to the top menu level.



regulate.

FACTORY DEFAULT

tings and return to the top level.

calibration to factory default ?).

Allows you to restore default values of all channels (128).

current setting and return to the top menu level.

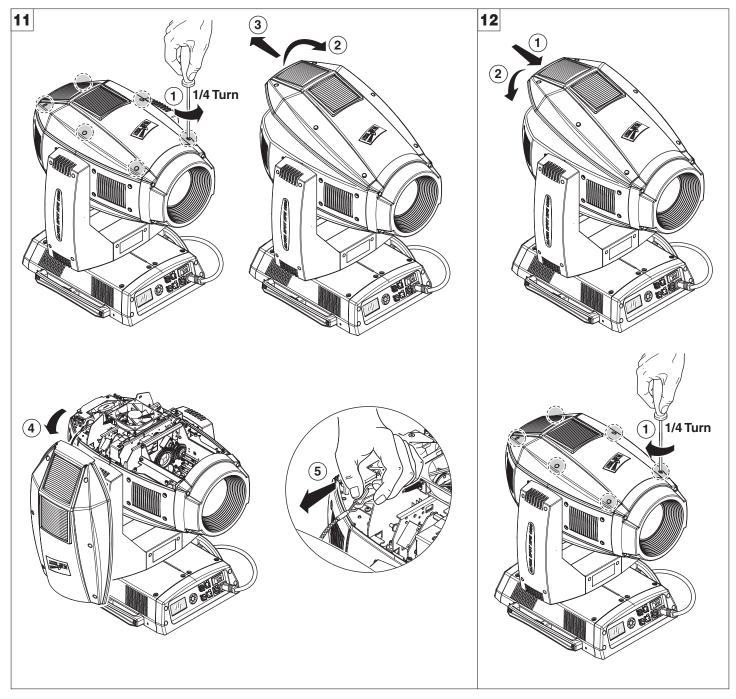
2) Using the UP (and DOWN (keys, select the effect you wish to

3) Press ^(K) and use the RIGHT (), UP () and DOWN () buttons to make the adjustment by setting a value between 0 and 255.
4) Press ^(K) to confirm the selection or LEFT () to keep current set-

1) Press 🛞 – a confirmation message appears on the display (Reset

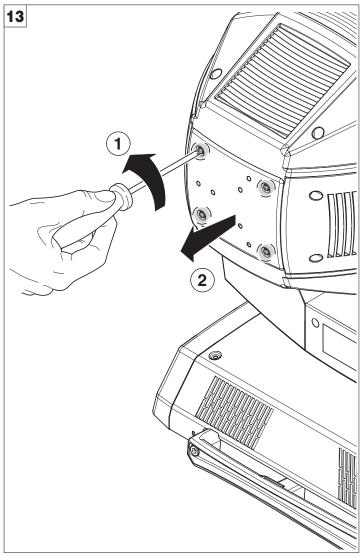
2) Select YES to reset calibration to factory default or NO to keep the

MAINTENANCE

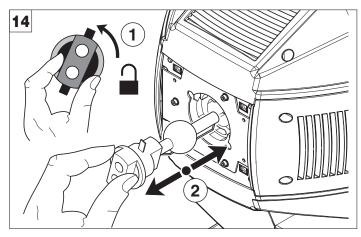


Locking and releasing Pan and Tilt movements - Refer to the instructions in the UNPACKING AND PREPARATION section. Opening the head covers - Fig. 11.

Closing the head covers - Fig. 12.

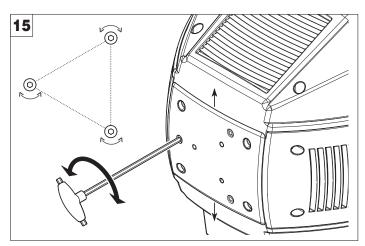


Opening and closing lamp compartment - Fig. 13

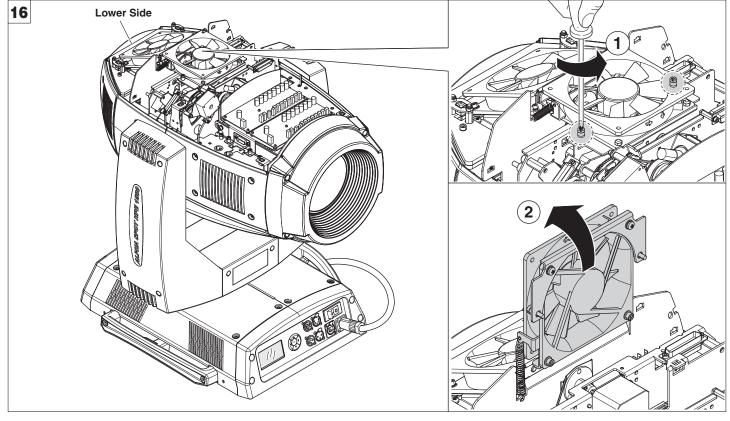


Lamp change - Fig 14

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.

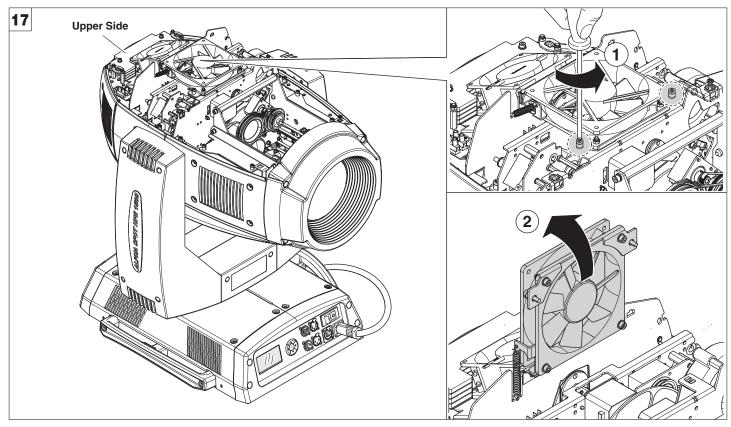


Lamp regulation - Fig. 15 To centre the lamp, turn the three adjusting screws as shown in the figure.

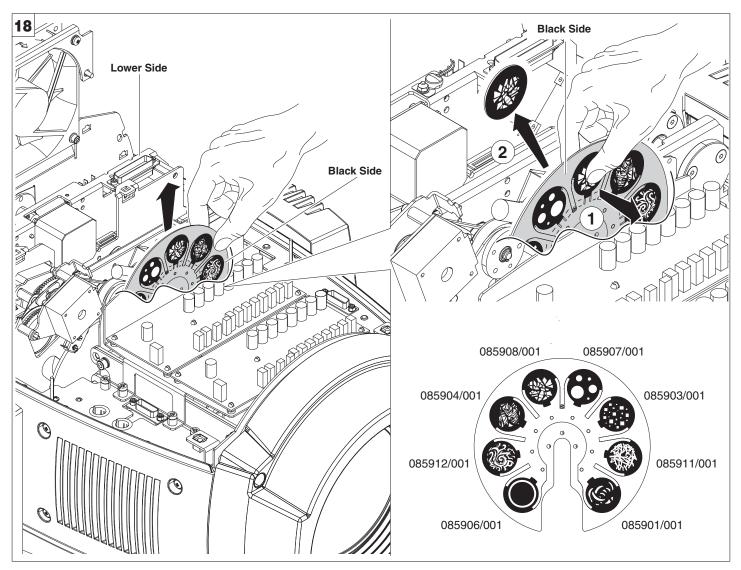


Fan support plate opening and closing (Lower side) - Fig. 16

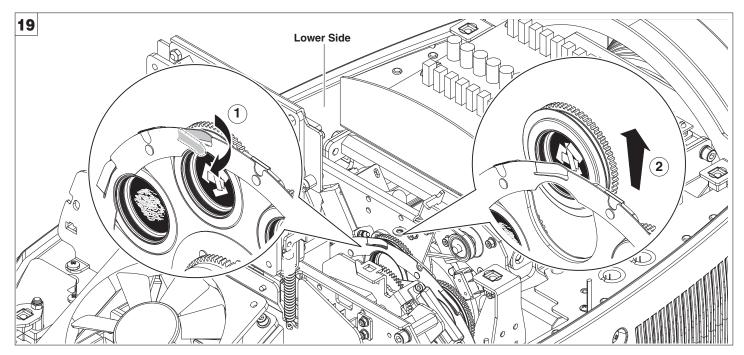
16



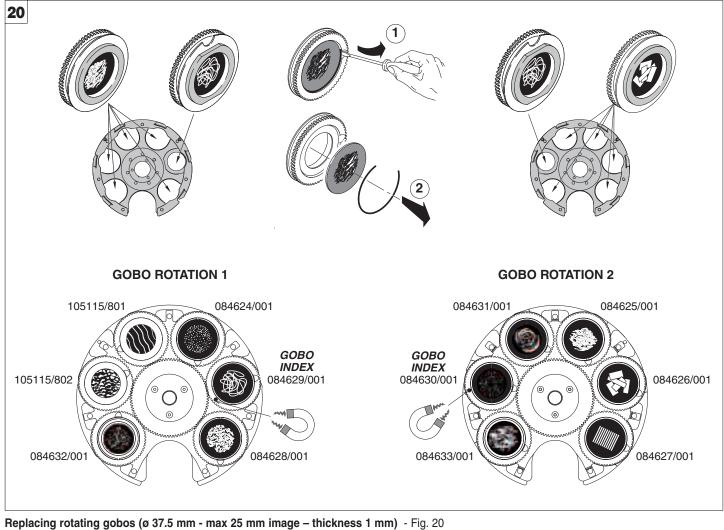
Fan support plate opening and closing (Upper side) - Fig. 17



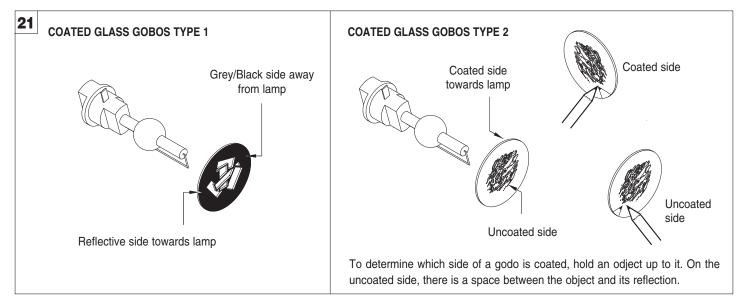
Replacing fixed gobos (ø 31.5 mm - max 25 mm image - thickness max 1 mm) - Fig. 18 **IMPORTANT: Please contact CLAY PAKY before using customized gobos.**



Bearing group replacement - Fig. 19

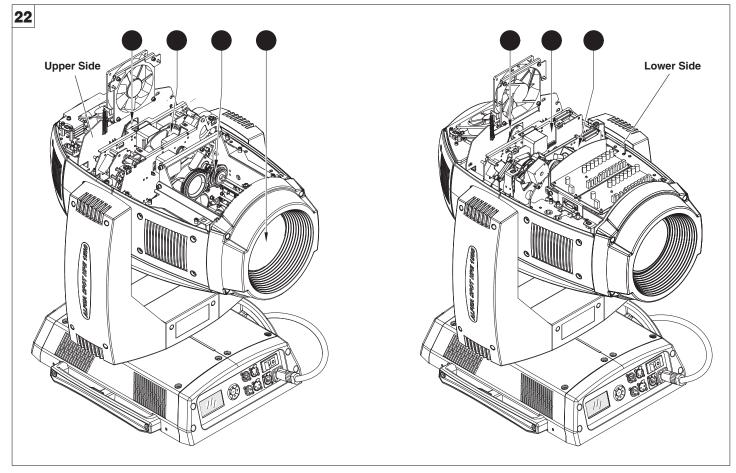


IMPORTANT: Please contact CLAY PAKY before using customized gobos.



Gobo orientation - Fig. 21

The pictures shown the correct gobos orientation.



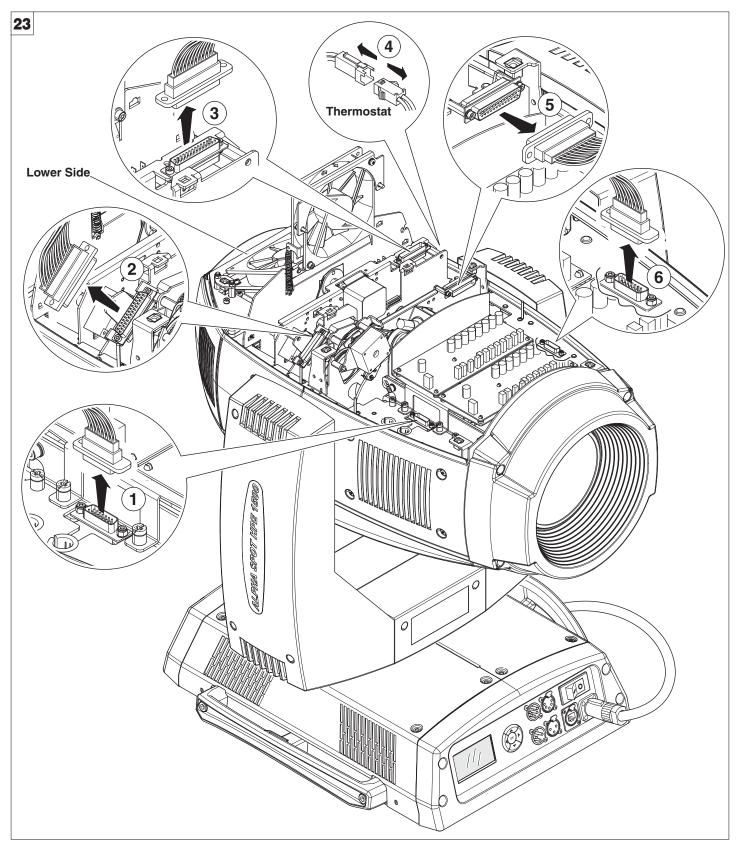
Periodical cleaning - Fig. 22

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.).

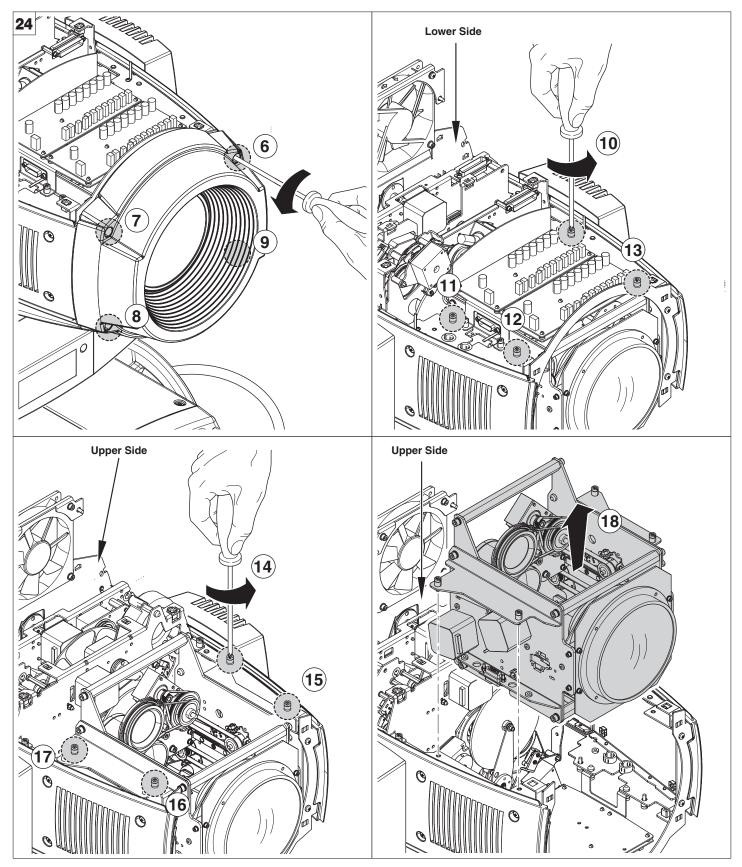
Use a soft cloth dampened with any detergent liquid for cleaning glass to remove the dirt from the reflectors, from the lenses and filters. It is recommended

that the projector undergoes an annual service by a qualified technician for special maintenance involving at least the following operations:

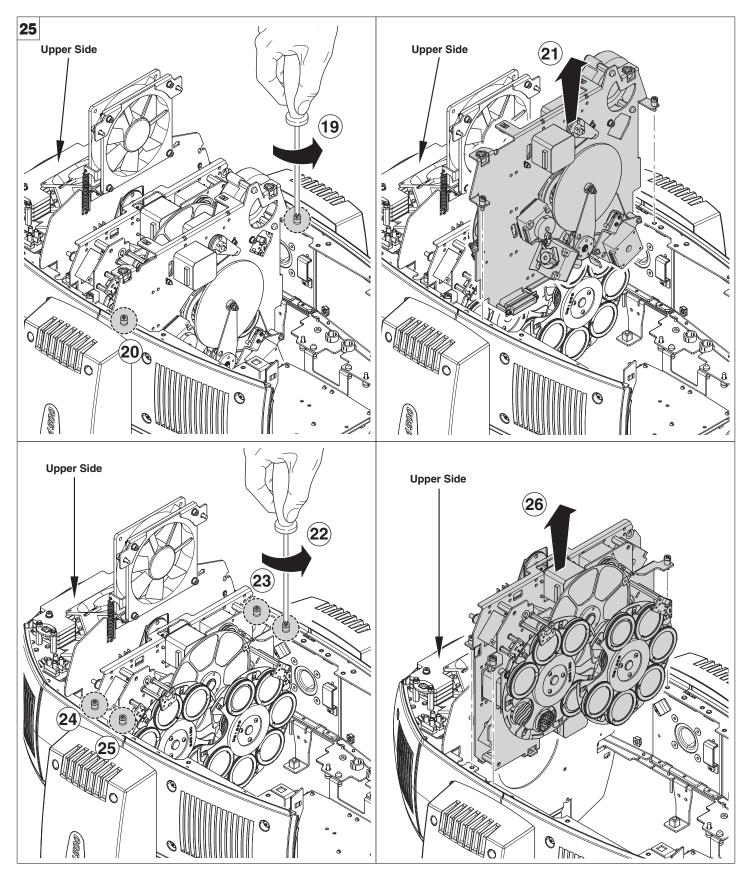
- General cleaning of internal parts.
- Restoring lubrication of all parts subject to friction, using lubricants specifically supplied by Clay Paky.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.



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

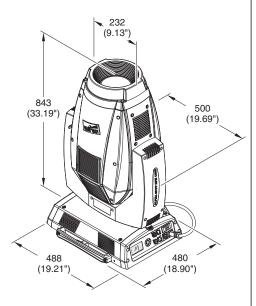


Extraction of the effect modules - Fig. 24 IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged. Insertion of the effect modules: Repeat the operations indicated in Fig. 24 and 25 in reverse order



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

628 (24.72") 660 (25.98") 660 (25.98")



Power supplies available 200-240V 50/60Hz

Input power • 2000VA a 230V 50Hz.

Lamp Discharge lamp.

- Type HTI 1500W/60/P50-L Lok-it Osram (L10102) - Cap PGJ50
- Colour temperature 6000 K
- Luminous flux 135000 lm
- Average life 750 h
- Any working position

Motors

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

Optical unit

• Elliptic reflector with high luminous efficiency

Channels

Max 40 control channels.

Inputs • DMX 512

DIMA JIZ

Movable body

- 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°

TECHNICAL INFORMATION

IP20 protection rating

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

CE Marking

In conformity with the European Union Low Voltage Directive 2006/95/CE and Electromagnetic compatibility Directive 2004/108/CE.

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

Functioning in any position.

Weights

about 50.95 Kg (112lbs, 1oz).

CAUSE AND SOLUTION OF PROBLEMS

THE PROJECTOR WILL NOT SWITCH ON								
ELECTRONICS NON-OPERATIONAL					PROBLEMS			
		DE	FECTIVE PROJECTION		PROBLEMS			
			REDUCED LUMINOSITY					
			POSSIBLE CAUSES	CHECKS AND R	EMEDIES			
			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.				
	٠		Lenses or reflector broken	Call an authorised technician.				
		Dust or grease deposited. Clean (see instructions).						

CHANNEL FUNCTION

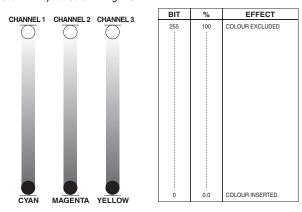
ALPHA SPOT HPE 1500

	CHANNEL MODE					
CHANNEL	STANDARD	VECTOR				
1	CYAN	CYAN				
2	MAGENTA	MAGENTA				
3	YELLOW	YELLOW				
4	C.T.O	C.T.O				
5	COLOUR WHEEL	COLOUR WHEEL				
6	MACRO COLOURS	MACRO COLOURS				
7	STOP/STROBE	STOP/STROBE				
8	DIMMER	DIMMER				
9	DIMMER FINE	DIMMER FINE				
10	IRIS	IRIS				
11	ANIMATED STAR GOBO	ANIMATED STAR GOBO				
12	STATIC GOBO CHANGE	STATIC GOBO CHANGE				
13	ROTATING GOBO 1 CHANGE	ROTATING GOBO 1 CHANGE				
14	GOBO 1 ROTATION	GOBO 1 ROTATION				
15	GOBO 1 FINE	GOBO 1 FINE				
16	ROTATING GOBO2 CHANGE	ROTATING GOBO2 CHANGE				
17	GOBO2 ROTATION	GOBO2 ROTATION				
18	GOBO2 FINE	GOBO2 FINE				
19	ANIMATION DISK INSERTION	ANIMATION DISK INSERTION				
20	ANIMATION DISK ROTATION	ANIMATION DISK ROTATION				
21	ROTATING PRISM INSERTION	ROTATING PRISM INSERTION				
22	PRISM ROTATION	PRISM ROTATION				
23	FROST INSERTION	FROST INSERTION				
24	FOCUS	FOCUS				
25	FOCUS FINE	FOCUS FINE				
26	ZOOM	ZOOM				
27	AUTOFOCUS DISTANCE	AUTOFOCUS DISTANCE				
28	AUTOFOCUS ADJUSTMENT	AUTOFOCUS ADJUSTMENT				
29	MACRO EFFECTS	MACRO EFFECTS				
30	PAN	PAN				
31	PAN FINE	PAN FINE				
32	TILT	TILT				
33	TILT FINE	TILT FINE				
34	FUNCTION	FUNCTION				
35	RESET	RESET				
36	LAMP ON/OFF (with Option "Lamp DMX" ON)	LAMP ON/OFF (with Option "Lamp DMX" ON)				
37		PAN-TILT TIME				
38		COLOUR TIME				
39		BEAM TIME				
40		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%.

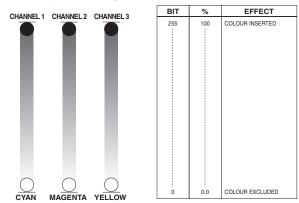
• COLOUR MIXING - channel 1 - 2 - 3

Operation with option color mixing: RGB



 $\label{eq:starsest} \begin{array}{l} \text{IMPORTANT:} \ \text{The lamp dim to half power 1 second after all the 3 channels stay at 0\% level. The lamp goes back to full power when the channels level is put higher than 0\%. \end{array}$

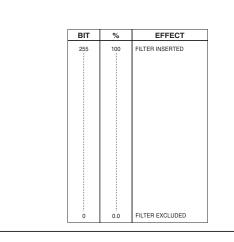
Operation with option color mixing: CMY



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%.

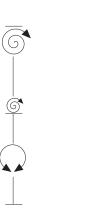


CHANNEL 4



• COLOUR WHEEL - channel 5

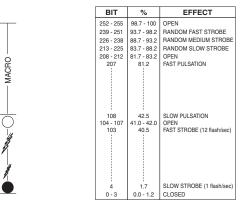
сто



BIT	%	EFFECT
255	100	FAST ROTATION 160 rpm
128	50.0	SLOW ROTATION 0.2rpm
117	46.0	BLUE
97	38.0	ORANGE
77	30.0	AQUAMARINE
58	23.0	GREEN
39	15.0	CTO 3200
20	8.0	RED
0	0.0	WHITE

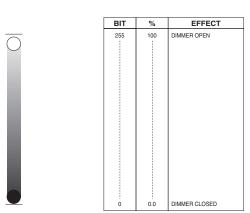
COLOR NAME	BIT	%	ROSCO CODE	LEE CODE	CYAN BIT	MAGENTA BIT	YELLOW BIT	CTO BIT	WHEEL BIT
Unused Range	186-255	58,0-100	-	-	-	-	-	-	-
Half CT straw	146-147	57,0-57,5	442	442	0	0	34	190	0
Lighter blue	144-145	56,2-56,7	353	353	226	0	149	138	0
Glacier blue	142-143	55,5-56,0	352	352	220	0	129	138	0
Fuschia pink	140-141	54,7-55,0	345	345	109	186	77	120	0
Mallard green	138-139	54,0-54,2	325	325	255	0	0	236	58
Jade	136-137	53,2-53,7	323	323	127	0	162	0	77
3/4 CT Orange	134-135	52,5-53,0	285	285	0	36	61	217	0
3/4 CTB	132-133	51,7-52,0	281	281	85	79	87	54	0
Half minus green	130-131	51,0-51,2	248	248	60	19	86	75	39
Minus green	128-129	50,0-50,5	247	247	60	71	86	75	39
1/4 CTO	126-127	49,5-49,7	206	206	62	71	123	122	0
1/2 CTO	124-125	48,7-49,0	205	205	25	26	45	131	0
Full CT Orange	122-123	48,0-48,2	204	204	0	44	58	234	0
1/4 CTB	120-121	47,0-47,5	203	203	75	54	91	109	0
1/2 CTB	118-119	46,2-46,7	202	202	85	71	84	89	0
Full CTB	116-117	45,5-46,0	201	201	94	79	80	0	0
Alice Blue	114-115	44,7-45,0	197	197	236	51	0	205	0
Congo Blue	112-113	44,0-44,2	181	181	251	241	0	255	0
Dark Lavender	110-111	43,2-43,7	180	180	195	170	0	160	0
Chrome Orange	108-109	42,5-43,0	179	179	0	98	255	255	0
Lagoon blue	106-107	41,7-42,0	172	172	224	0	121	40	79
Deep Lavender	104-105	41,0-41,2	170	170	100	129	77	120	0
Liliac tint	102-103	40,0-40,5	169	169	41	59	39	120	0
Daylight Blue	102-100	39,0-39,5	165	165	210	73	105	88	0
Flame red	98-99	38,2-38,7	164	164	0	255	227	255	97
Bastard amber	96-99 96-97	37,5-38,0	162	162	0	255	0	255 199	0
	96-97 94-95		158	158	0	20 148	255		0
Deep Orange Pink	94-95 92-93	36,7-37,0 36,0-36,2			0	148 159	255 0	255 255	0
Pilik Pale rose			157	157					
	90-91	35,0-35,5	154	154	0	48	0	189	0
Pale Gold	88-89	34,2-34,7	152	152	0	60	98	138	0
Bright rose	86-87	33,7-34,0	148	148	0	255	0	255	0
Apricot	84-85	33,0-33,2	147	147	0	81	55	255	0
Bright Blue	82-83	32,0-32,5	141	141	182	0	99	92	77
Primary green	80-81	31,2-31,7	139	139	0	0	0	231	58
Light green	78-79	30,5-31,0	121	121	0	0	255	0	77
Pale green	76-77	29,7-30,0	138	138	105	0	179	100	0
Special Lavender	74-75	29,0-29,5	137	137	97	105	72	90	0
Pale Lavender	72-73	28,2-28,7	136	136	73	102	44	120	0
Deep golden amber	70-71	27,5-28,0	135	135	0	255	255	255	0
Golden amber	68-69	26,7-27,0	134	134	0	142	234	110	0
Medium blue	66-67	26,0-26,2	132	132	255	152	127	0	77
Marine blue	64-65	25,0-25,5	131	131	60	0	106	73	77
Bright pink	62-63	24,2-24,7	128	128	0	255	0	197	0
Mauve	60-61	23,7-24,0	126	126	0	255	0	255	74
Fern Green	58-59	23,0-23,2	122	122	173	0	235	89	0
Leaf green	56-57	22,0-22,5	121	121	136	0	241	64	0
•	54-55					229			77
Deep Blue		21,2-21,7	120	120	255		58	128	
Dark blue	52-53	20,5-21,0		119	255	161	0	0	77
Light blue	50-51	19,5-20,0	118	118	245	0	145	138	0
Steel blue	48-49	18,7-19,0		117	167	0	141	165	0
Medium blue green	46-47	18,0-18,2		116	189	0	157	91	77
Peacock blue	44-45	17,0-17,5	115	115	136	0	128	91	77
Dark pink	42-43	16,2-16,7	111	111	0	139	0	220	0
Light Salmon	40-41	15,5-16,0		109	50	121	58	230	0
English rose	38-39	14,7-15,0	108	108	0	62	0	247	0
Light rose	36-37	14,0-14,2	107	107	0	95	0	220	0
Primary red	34-35	13,2-13,7	106	182	0	0	0	0	20
Orange	32-33	12,5-13,0	105	105	0	182	255	76	0
Deep amber	30-31	11,7-12,0		104	0	26	199	223	0
Straw	28-29	11,0-11,2	103	103	58	17	104	176	0
Light amber	26-27	10,0-10,5	102	102	0	0	171	193	0
Yellow	24-25	9,5-9,7	101	101	0	0	255	149	0
Spring yellow	22-23	8,7-9,0	100	100	80	0	227	157	0
Dark Yellow Green	20-21	8,0-8,2	090	090	255	0	255	204	0
Lime green	18-19	7,0-7,5	090	090	118	0	255	204 124	0
•						77	0		0
Just Blue	16-17	6,2-6,7	079	079	255			204	
Tokyo Blue	14-15	5,5-6,0	071	071	255	255	0	180	77
Sky blue	12-13	4,7-5,0	068	068	245	77	64	173	0
Pale blue	10-11	4,0-4,2	063	063	122	0	112	127	0
Lavender	8-9	3,2-3,7	058	058	165	186	77	0	0
Bright Red	6-7	2,5-3,0	026	026	0	255	0	255	21
Mad Yellow	4-5	1,7-2,0	010	010	48	0	239	115	0
Mad bastard amber	2-3	1,0-1,2	004	004	0	62	78	159	0
Random Macro Color	-	-	-	-	-	-	-		-
		0.5		-		-			
(only for Macro effects)	1	0,5		-	-	-	- 1		

• STOP / STROBE - channel 7

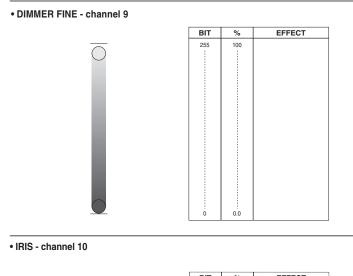


IMPORTANT: The lamp dim to half power 1 second after the channel stay at 0% level. The lamp goes back to full power when the channel level is put higher than 0%.

• DIMMER - channel 8



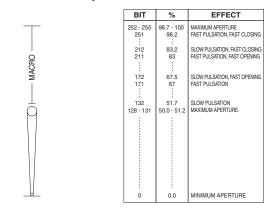
The lamp is linearly dimmed from full power to half power electronically and mechanically from half power to off.



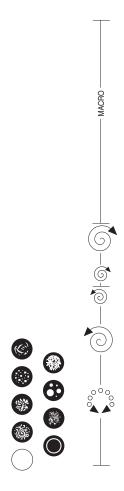
BIT % EFFECT 252 - 255 251 98.7 - 100 98.2 MAXIMUM APERTURE FAST PULSATION, FAST CLOSING 212 211 83.2 SLOW PULSATION, FAST CLOSING FAST PULSATION, FAST OPENING 83 172 171 SLOW PULSATION, FAST OPENING FAST PULSATION 67.5 67 SLOW PULSATION MAXIMUM APERTURE 132 128 - 131 51.7 50.0 - 51.2 0.0 MINIMUM APERTURE

• ANIMATED STAR GOBO – channel 11

*With the "Animated star gobo" on this bit/percentual, all "Macro effects" that include an Iris scene, use the "Animated Star gobo" instead the "Iris"

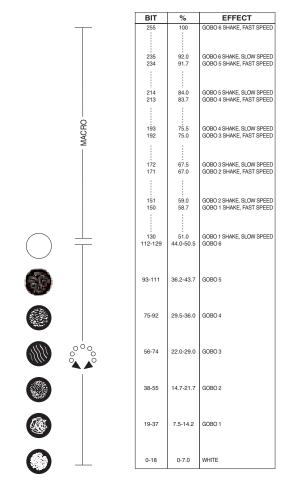


• STATIC GOBO CHANGE - channel 12

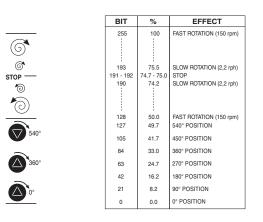


BIT	%	EFFECT
255	100	GOBO 8 SHAKE, FAST SPEED
244 243	95.5 95.0	GOBO 8 SHAKE, SLOW SPEED GOBO 7 SHAKE, FAST SPEED
232	91.0	GOBO 7 SHAKE, SLOW SPEED
231	90.5	GOBO 6 SHAKE, FAST SPEED
220 219	86.2 86.0	GOBO 6 SHAKE, SLOW SPEED GOBO 5 SHAKE, FAST SPEED
208 207	81.7 81.2	GOBO 5 SHAKE, SLOW SPEED GOBO 4 SHAKE, FAST SPEED
196 195	76.7 76.2	GOBO 4 SHAKE, SLOW SPEED GOBO 3 SHAKE, FAST SPEED
184 183	72.0 71.7	GOBO 3 SHAKE, SLOW SPEED GOBO 2 SHAKE, FAST SPEED
172 171	67.5 67.0	GOBO 2 SHAKE, SLOW SPEED GOBO 1 SHAKE, FAST SPEED
160 159	63.0 62.5	GOBO 1 SHAKE, SLOW SPEED FAST ROTATION (100 rpm)
118 114 - 117 113	46.2 44.7 - 46.0 44.2	SLOW ROTATION (5 rpm) STOP SLOW ROTATION (5 rpm)
72	28.2	FAST ROTATION (100 rpm)
64 - 71	25.0 - 28.0	GOBO 8
56 - 63	22.0 - 24.7	GOBO 7
48 - 55	18.7 - 21.7	GOBO 6
40 - 47	15.5 - 18.2	GOBO 5
32 - 39	12.5 - 15.0	GOBO 4
24 - 31	9.5 - 12.0	GOBO 3
16 - 23	6.2 - 9.0	GOBO 2
8 - 15	3.2 - 6.0	GOBO 1
0 - 7	0 - 3.0	WHITE

MACRO

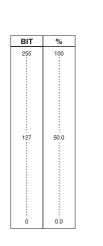


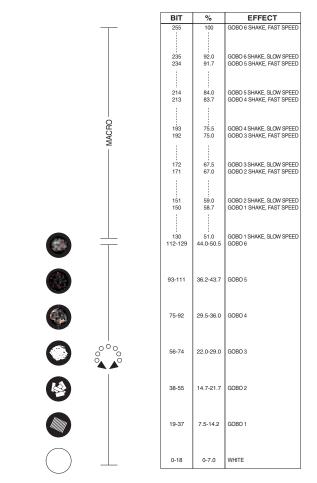
• GOBO 1 ROTATION - channel 14



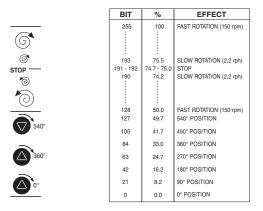
• GOBO 1 FINE - channel 15



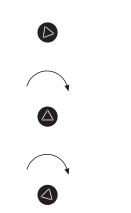




• GOBO 2 ROTATION - channel 17

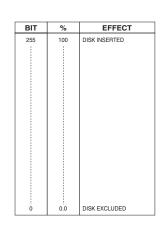


• GOBO 2 FINE - channel 18

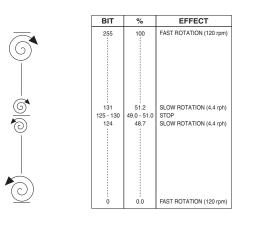




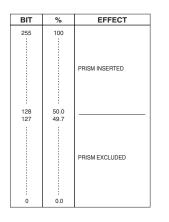
• ANIMATION DISK INSERTION - channel 19



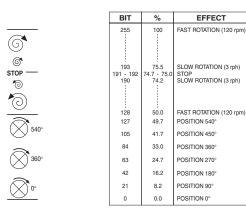
• ANIMATION DISK ROTATION - channel 20



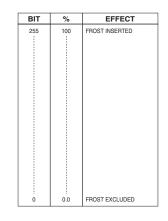
• PRISM INSERTION - channel 21



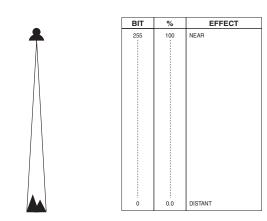
• PRISM ROTATION - channel 22



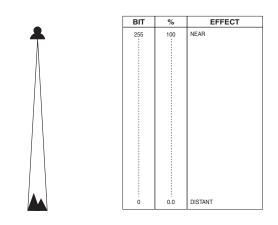
• FROST - channel 23



• FOCUS - channel 24

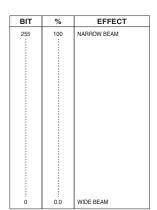


• FOCUS FINE -channel 25



• ZOOM - channel: 26

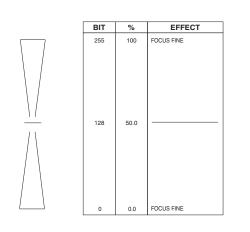




• AUTOFOCUS DISTANCE - channel 27

	BIT	%	EFFECT
	255	100	100 METRES
	128	50.0	50 METRES
	102	40.0	40 METRES
	77	30.0	30 METRES
AUTOFOCUS priority: 1) Rotating Gobo 2	51	20.0	20 METRES
2) Static Gobo	26	10.0	10 METRES
3) Rotating Gobo 1	7	3.0	3 METRES
4) Animated Star Gobo5) Iris	0-6	0.0-2.5	AUTOFOCUS OFF

• AUTOFOCUS ADJUSTMENT - channel 28

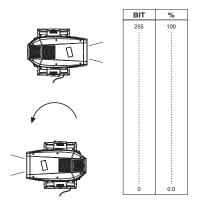


• MACRO EFFECTS - channel 29

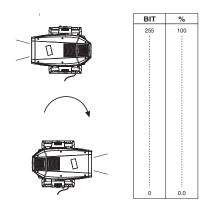
BIT	%	EFFECT
232-255	91,0-100	STAND BY BLACK
220-231	86,2-90,5	RANDOM MACRO 8
208-219	81,7-86,0	RANDOM MACRO 7
196-207	76,7-81,2	RANDOM MACRO 6
184-195	72,0-76,2	RANDOM MACRO 5
172-183	67,5-71,7	RANDOM MACRO 4
160-171	63,0-67,0	RANDOM MACRO 3
148-159	58,0-62,5	RANDOM MACRO 2
136-147	53,2-57,5	RANDOM MACRO 1
112-135	44,0-53,0	STAND BY BLACK
100-111	39,0-43,7	MACRO 8
88-99	34,2-38,7	MACRO 7
76-87	29,7-34,0	MACRO 6
64-75	25,0-29,5	MACRO 5
52-63	20,5-24,7	MACRO 4
40-51	15,5-20,0	MACRO 3
28-39	11,0-15,0	MACRO 2
16-27	6,2-10,5	MACRO 1
12-15	4,7-6,0	STAND BY BLACK
8-11	3,2-4,2	STAND BY
0-7	0,0-3,0	MACRO OFF

• PAN - channel 30

Operation with option InvertPan $\,\,^{\diamond}$ Off (Tilt conventionally represented at 14% and option Invert Tilt $\,\,^{\diamond}$ Off)

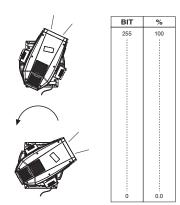


Operation with option InvertPan $\,\,\hat{\circ}\,$ On (Tilt conventionally represented at 14% and option Invert Tilt $\,\,\hat{\circ}\,$ Off)



• PAN FINE - channel 31

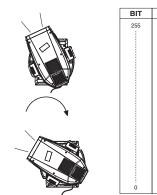
Operation with option InvertPan $\,\,^{\diamond}$ Off (Tilt conventionally represented at 14% and option Invert Tilt $\,\,^{\diamond}$ Off)



Operation with option InvertPan $\,\,\hat{\circ}\,\,$ On (Tilt conventionally represented at 14% and option Invert Tilt $\,\,\hat{\circ}\,\,$ Off)

%

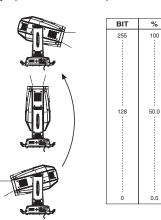
00



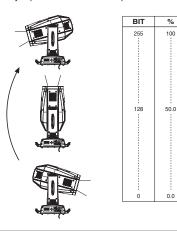
• TILT - channel 32

Operation with option Invert Tilt $\,\,\hat{\lor}\,\, Off$

(Pan conventionally represented at 0% and option Invert Pan $\, \stackrel{\circ}{\circ} \, O {\it ff}$)



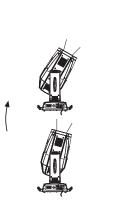
Operation with option Invert Tilt \circ On (Pan conventionally represented at 0% and option Invert Pan \circ Off)

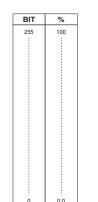


• TILT FINE - channel 33

Operation with option Invert Tilt 🗘 Off

(Pan conventionally represented at 0% and option Invert Pan \circ Off)





BIT

255

%

100

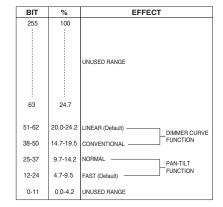
0.0

Operation with option Invert Tilt $\, \hat{\circ} \,$ On

(Pan conventionally represented at 0% and option Invert Pan $\,\,\hat{\circ}\,\,$ Off)

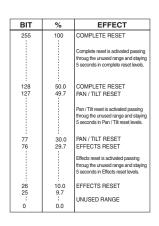






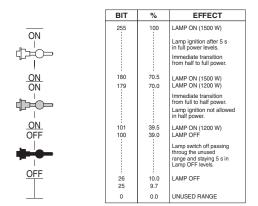
The functions are actived passing through unused range and staying 5 seconds in necessary level.

• RESET - channel: 35



• LAMP CONTROL (only with option LAMP DMX On) - channel: 36

IMPORTANT: Alpha Spot HPE 1500 is not provided with hot restrike igniter



TIMING CHANNELS

	Timing Channel	Channel function		
37	Pan - Tilt time	Pan – Tilt – Pan Fine – Tilt Fine		
38	Colour time	Cyan - Magenta - Yellow - C.T.O Color wheel		
39	Beam time	Dimmer - Iris -Focus effects movment - Focus - Zoom - Frost - Rotating Prism change - Frost insertion		
40	Gobo time	Gobo Fix - Rotating Gobo 1/2 change – Animation Disk insertion		

TIME TABLE

BIT	Seconds		BIT	Seconds		BIT	Seconds	BIT	Seconds
0	Full		43	8.6		86	04	129	
1	0.2		44	8.8		87	24	130	41
2	0.4		45	9		88		131	
3	0.6		46	9.2		89	25	132	
4	0.8		47	9.4		90		133	42
5	1		48	9.6		91	00	134	
6	1.2		49	9.8		92	26	135	43
7	1.4		50	10		93		136	
8	1.6		51			94	27	137	44
9	1.8		52			95		138	44
10	2		53	10.6		96	28	139	
11	2.2		54			97		140	45
12	2.4		55	11		98		141	
13	2.6		56	10		99	29	142	40
14	2.8		57	12		100		143	46
15	3		58	10		101		144	
16	3.2		59	13		102	30	145	47
17	3.4		60			103		146	
18	3.6		61	14		104	01	147	40
19	3.8		62			105	31	148	48
20	4		63	15		106		149	
21	4.2		64	15		107	32	150	49
22	4.4		65			108		151	
23	4.6		66	16		109	00	152	
24	4.8		67			110	33	153	50
25	5		68	17		111		154	
26	5.2		69	17		112	34	155	51
27	5.4		70			113		156	51
28	5.6		71	18		114	35	157	
29	5.8		72			115	30	158	52
30	6		73	19		116		159	
31	6.2		74	19		117	36	160	53
32	6.4		75			118		161	
33	6.6		76	20		119	37	162	
34	6.8		77			120	37	163	54
35	7		78			121		164	
36	7.2		79	21		122	38	165	55
37	7.4		80			123		166	
38	7.6		81	21 120 121 122 123 123 124			167		
39	7.8		82			125	39	168	56
40	8		83			126		169	
41	8.2		84	23		127	40	170	57
42	8.4	8.4 85		128	40	171	57		

BIT	Seconds		BIT	Seconds		
172			216			
173	58		217	170		
174			218			
175			219	180		
176	59		220			
177			221			
178	00		222	190		
179	60		223			
180			224	200		
181	65		225			
182			226			
183	70		227	210		
184	70		228			
185			229			
186	75		230	220		
187			231			
188	80		232	230		
189			233			
190			234			
191	85		235	240		
192			236			
193	90		237	250		
194			238			
195	05		239			
196	95		240	260		
197			241			
<u>198</u> 199	100		242	270		
200			243			
200	110		244			
201	110		245	280		
202			246			
203	120		247	290		
205	120		248			
206			249			
207	130		250	300		
208			251			
209	140		252			
210			253	310		
211			254			
212	150		-	Follow cue		
213	·		255	Data		
214	160					
215						
		1				

