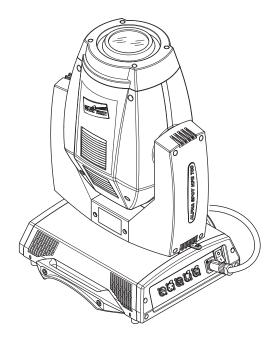


ALPHA SPOT HPE 700

C61355

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

Installation

700w (<u>3</u>m

t_a 40°C

IP20

 $t_c 150^\circ C$

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 3 metres (10' 9") 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.

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.

· Connections 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 $150^{\circ}C$ ($302^{\circ}F$).

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

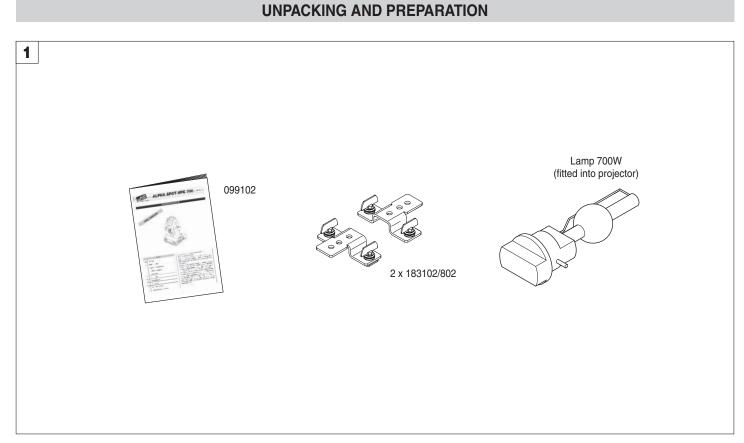
This product contains a rechargeable lead-acid battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force. Instructions on how to remove the battery from the product are available on **www.claypaky.it**

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

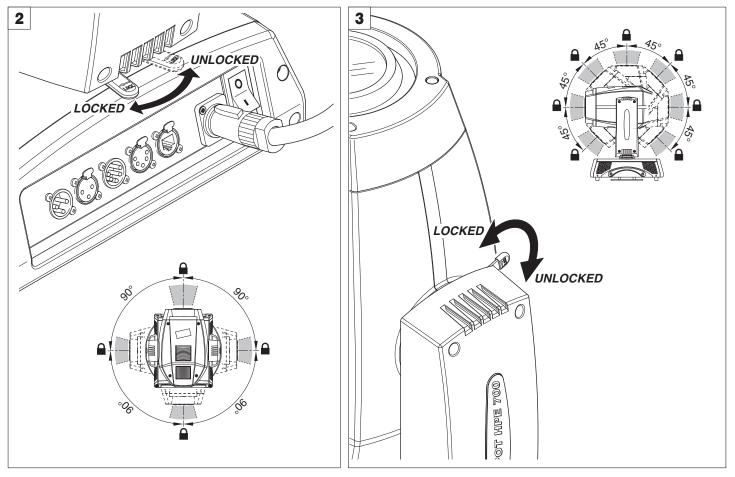
Low Voltage 2006/95/CE

Electromagnetic Compatibility 2004/108/CE





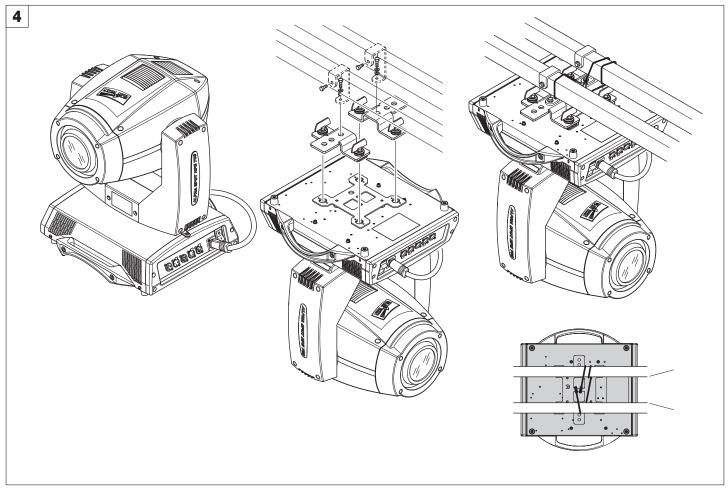
Packing contents - Fig. 1



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

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

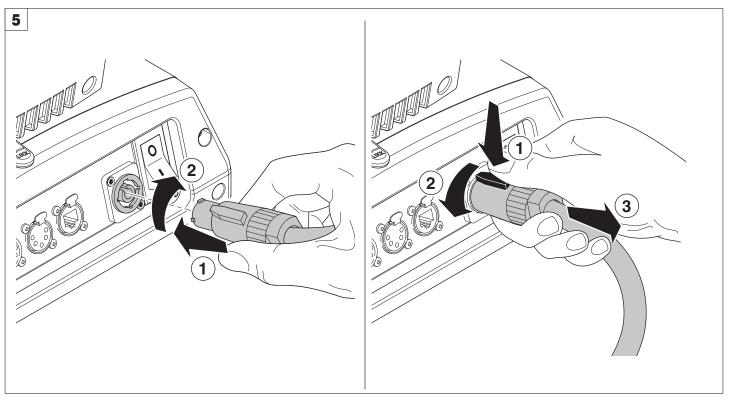
INSTALLATION AND START-UP



Installing the projector - Fig. 4

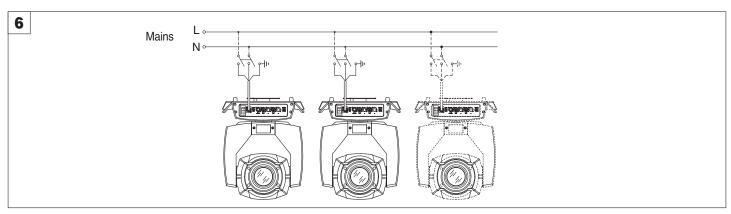
The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.

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.

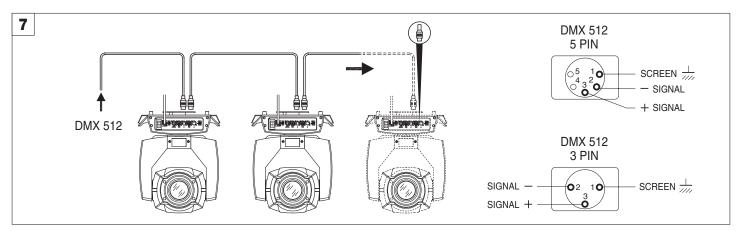


Connecting and disconnecting power cable - Fig. 5

CONTROL PANEL

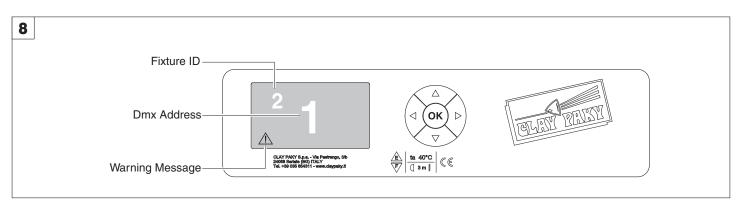


Connecting to the mains supply - Fig. 6



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.

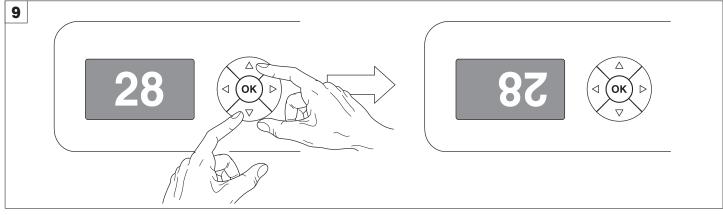


Switching on the projector - Fig. 8

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 the 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 (Rev 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.

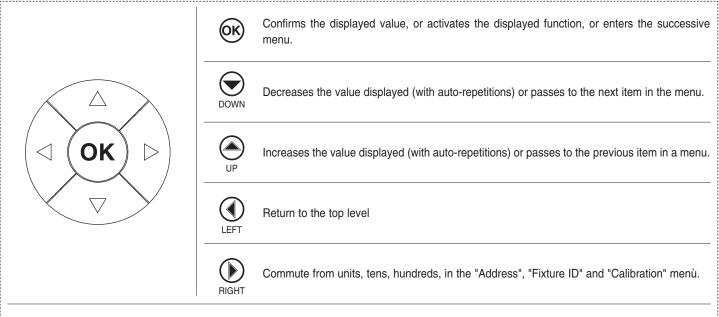
Setting the address: see pag. 8.

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



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. 13.
- 3) Press 🛞 to display the first item in the selected menu.
- Use the UP

 and DOWN

 keys to select the MENU items.

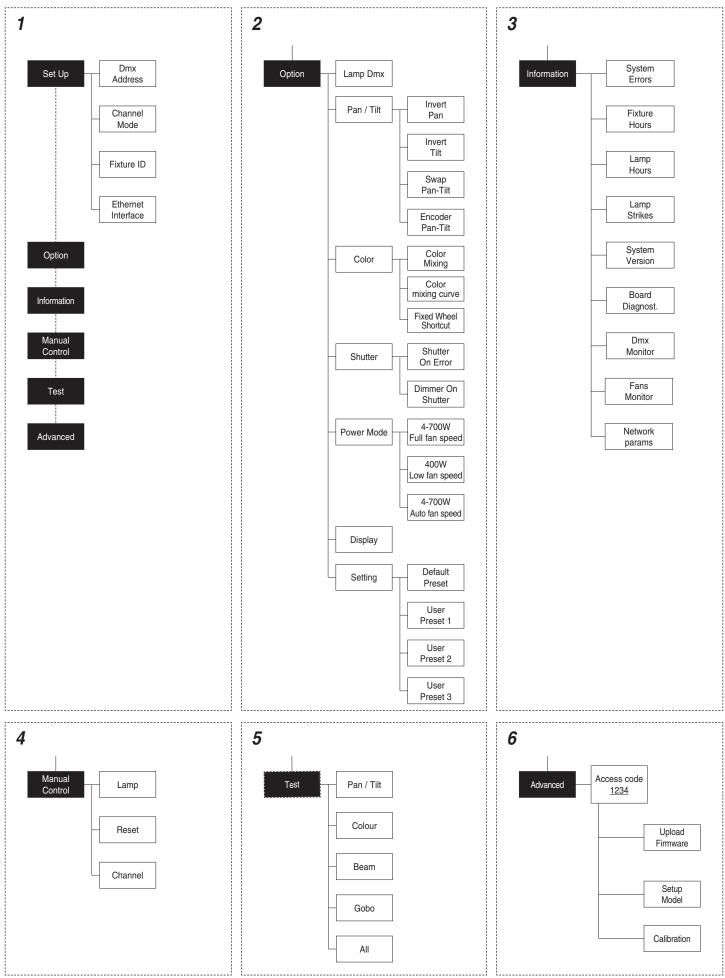
Setting addresses and options with the projector disconnected

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.

ALPHA SPOT HPE 700

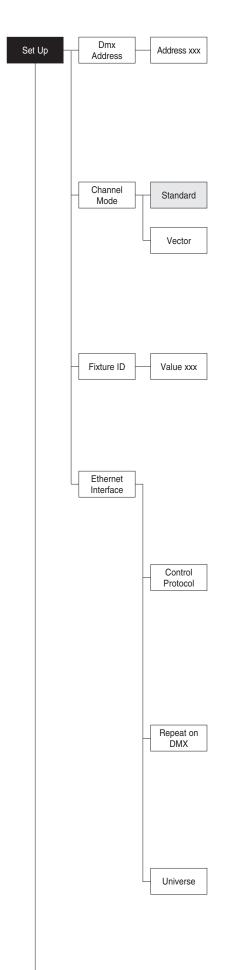
MENU SETTING

MAIN MENU



Continue 🔶

NOTE: On grey the default options



SET UP MENU

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

CHANNEL MODE

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

- 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 🛞 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 is the current setting appears on the display.
- 2) Use the UP (a) and DOWN (b) keys to select one of the following settings:
 Disabled
 - Art-net on IP 2
 - Art-net on IP 10

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

Repeat on DMX

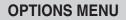
It lets you enable the transmission of the Ethernet protocol by DMX signal to all the connected projectors.

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



LAMP DMX

Used for enabling lamp remote control channel.

- 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 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).
- 2) Use the UP (and DOWN (keys to enable (On) or disable (Off) PAN inversion.
- 3) Press is 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).
- 2) 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).
- 3) Press 🛞 to confirm the selection or LEFT 🕥 to keep current settings.

Encoder Pan-Tilt

Used for enabling the $\ensuremath{\mathsf{Pan}}\xspace$ / Tilt encoders.

- 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 / 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).
- - CMY color mixing mode
- 3) Press to confirm the selection or LEFT to keep current settings.

Color mixing curve

It lets you select the "Color mixing curve" from the two available.

- 1) Press (6) the current setting appears on the display.

Curve 2

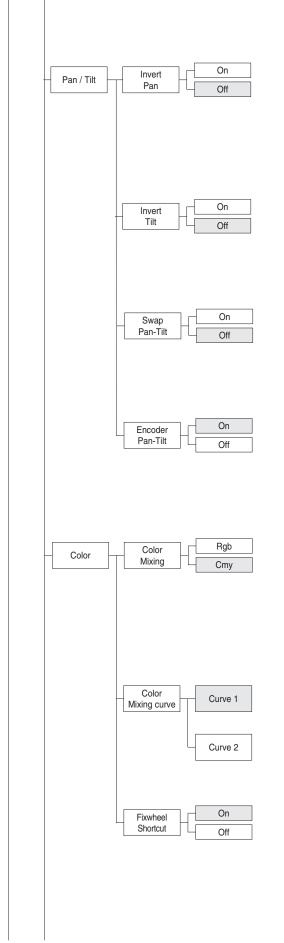
3) Press to confirm the selection or LEFT to keep the current setting.

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.
- 3) Press 🛞 to confirm the selection, or LEFT 🕥 to keep current settings.

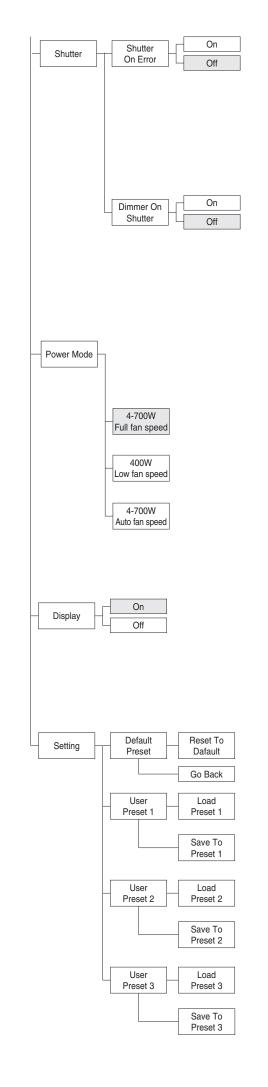


On

Off

Option

Lamp Dmx



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).
- 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 🛞 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).
- 2) 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.

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:
- **4-700W Full fan speed**: Lamp can change from full-power (700W) to half-power (400W) using the LAMP CONTROL channel. Fans always work at Full speed.
- **400W Low fan speed**: Lamp constantly works in half-power mode (400W) while the Fan always works at Low speed. With LAMP CONTROL channel you can only switch the lamp ON and OFF.
- 4-700W Auto fan speed: Lamp can change from full-power (700W) to half-power (400W) using the LAMP CONTROL channel. Automatically the fans switch from Full speed to Low speed respectively.

3) Press (K) to confirm the selection or LEFT (1) 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).
- 3) Press 🐼 to confirm the selection or LEFT 🕥 to keep current settings.

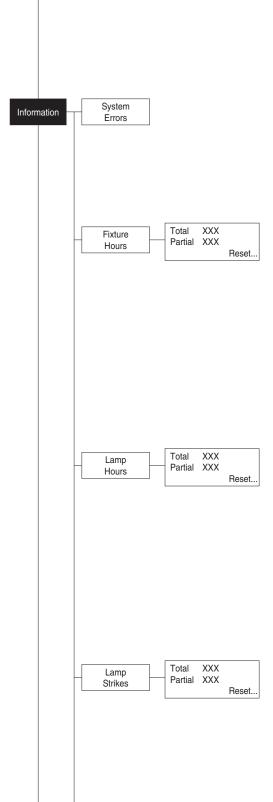
SETTING

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

- 1) Press 🛞 "Default preset" appears on the display.
- 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 $\textcircled{\mbox{\scriptsize OS}}$ "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 (K), a confirmation message (Are you sure?) appears on the display.



2) Select YES to confirm the s	elction 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
Color mixing	CMY
Color mixing curve	Curve 1
Fixed Wheel Shortcut	On
Shutter on error	Off
Dimmer on Shutter	Off
Power Mode	4-700 Full fan speed
Display	On

INFORMATION MENU

SYSTEM ERRORS

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

- Pressing 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).

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 🐼 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 🛞 - 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.

- Press (to reset partial lamp working hours, a confirmation message (Are you sure ?) appears on the display.
- 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).

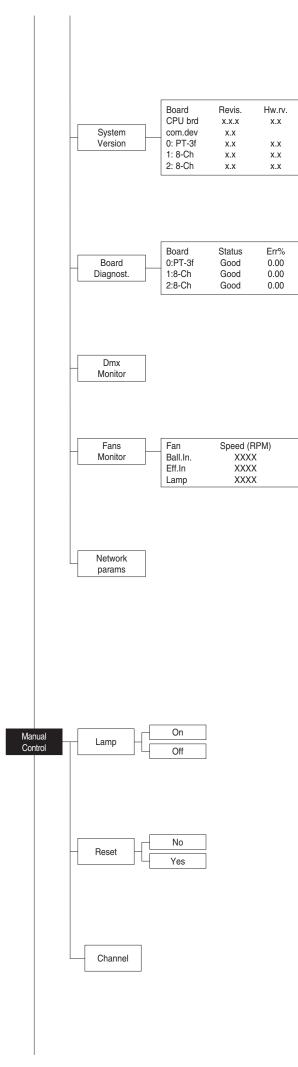
 Press (N) - the number of times the lamp was turned on (total and partial) appears on the display.

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 🐼 to reset partial lamp strikes hours, a confirmation message (Are you sure ?) appears on the display.
- 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: Ball. IN (Ballast IN Fan) Eff.IN (Effects IN Fan) Lamp (Lamp 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:** 255.0.00 **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 \bigcirc and DOWN \bigcirc keys to turn the lamp on (On) or off (Off)
- 3) Press (1) to confirm the selection or LEFT (1) to keep current settings and return to the top level.

RESET

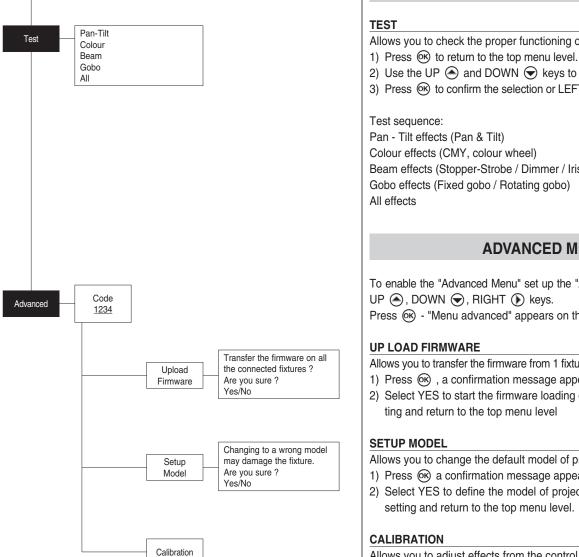
Used for resetting the projector.

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



TEST MENU

Allows you to check the proper functioning of effects.

- 2) Use the UP (and DOWN () keys to select the required test.

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

Beam effects (Stopper-Strobe / Dimmer / Iris / Prism / Frost) Gobo effects (Fixed gobo / Rotating gobo)

ADVANCED MENU

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

Press () - "Menu advanced" appears on the display

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

- 1) Press (), 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

Allows you to change the default model of projector.

- 1) Press or 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.

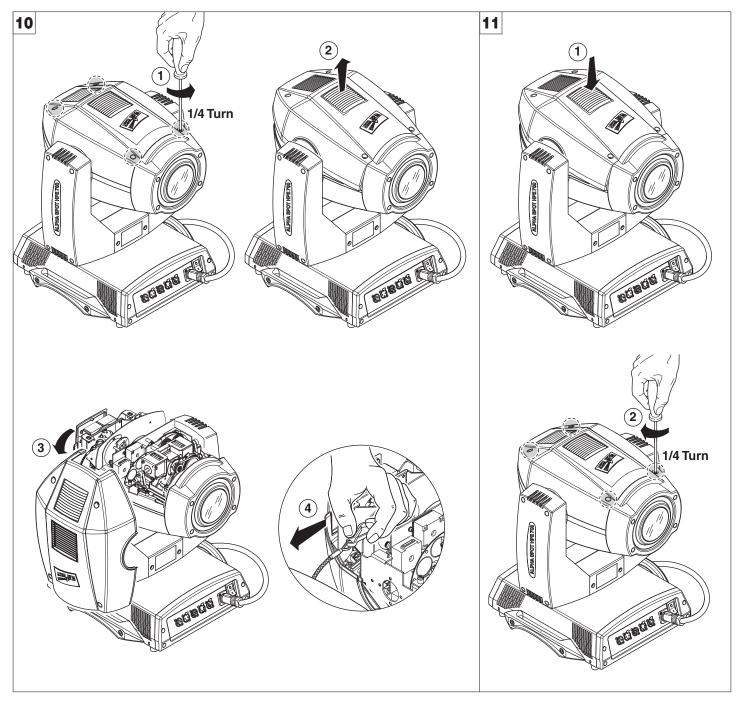
Allows you to adjust effects from the control panel to obtain perfect uniformity between the projectors.

- 1) Press ("channels" appears on the display.
- 2) Using the UP (and DOWN (keys, select the effect you wish to regulate.
- 3) Press is 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 (1) to keep current settings and return to the top level.

FACTORY DEFAULT

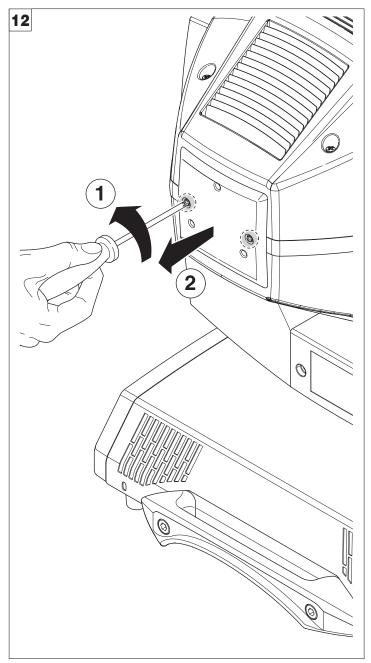
- Allows you to restore default values of all channels (128).
- 1) Press 🛞 a confirmation message appears on the display (Reset calibration to factory default ?).
- 2) Select YES to reset calibration to factory default or NO to keep the current setting and return to the top menu level.

MAINTENANCE

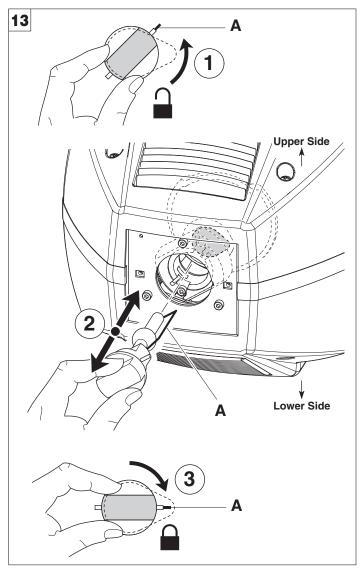


Locking and releasing Pan and Tilt movements - Refer to the instructions in the UNPACKING AND PREPARATION section. Opening the head covers - Fig. 10.

Closing the head covers - Fig. 11.



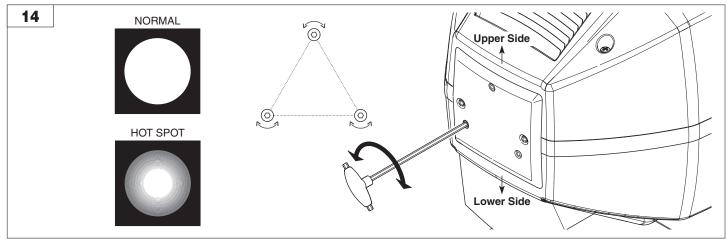
Opening and closing lamp compartment - Fig. 12



Lamp change - Fig 13

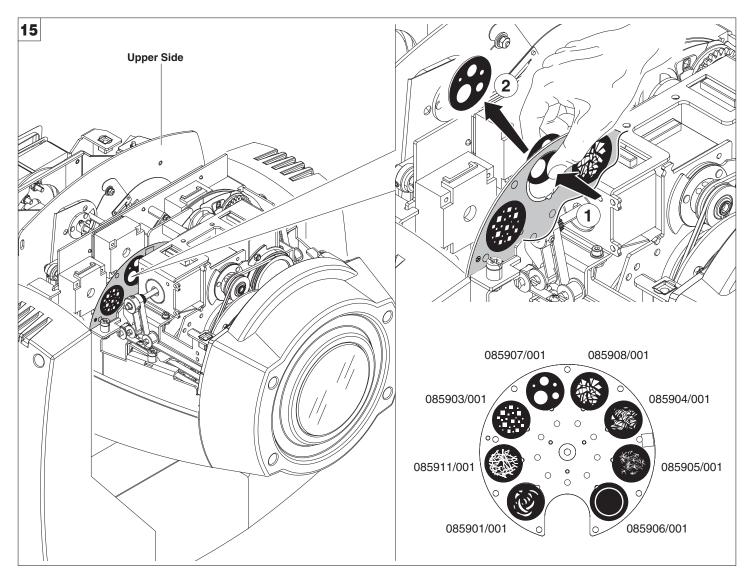
Take the new lamp out of its package and insert in the fitting. WARNING: do not touch the lamp's envelope with bare hands. Should this happen, clean the bulb with a cloth soaked in alcohol and dry it with a clean, dry cloth.

IMPORTANT: Make sure the lamp is inserted with the external contact (A) facing the elliptical reflector's slot.

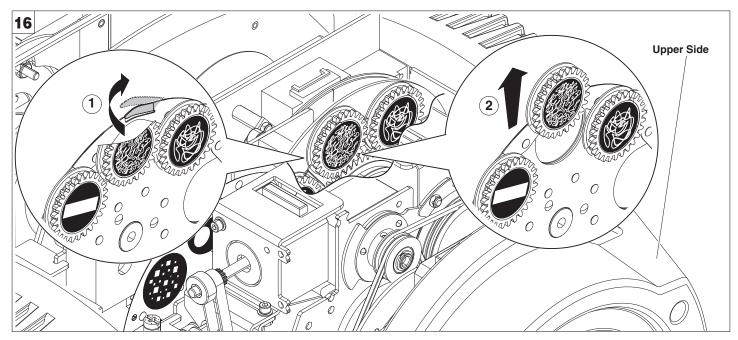


Lamp regulation - Fig. 14

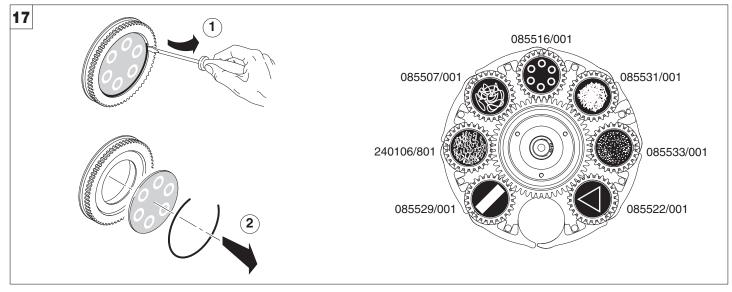
To centre the lamp, turn the three adjusting screws as shown in the figure.



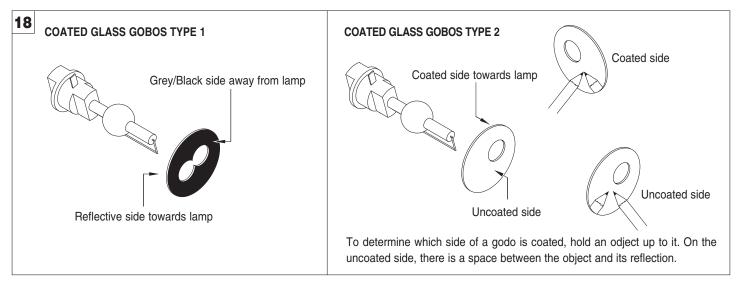
Replacing fixed gobos (ø 31.5 mm – max 23 mm image – thickness max 1.1 mm) - Fig. 15 WARNING: Before using personalised gobos contact Clay Paky.



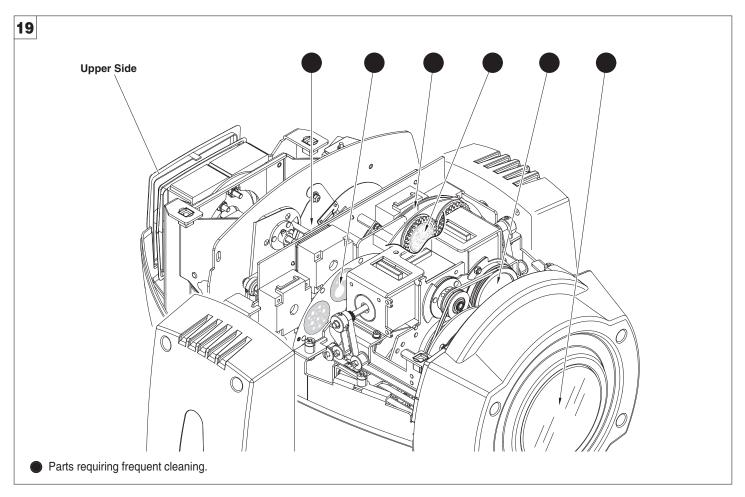
Bearing group replacement - Fig. 16



Replacing rotating gobos (ø 25.7 mm - max 23 mm image - thickness max 1.1 mm) - Fig. 17 IMPORTANT: Use only glass gobos on the rotating gobos wheel. WARNING: Before using personalised gobos contact Clay Paky.



Gobo orientation - Fig. 18

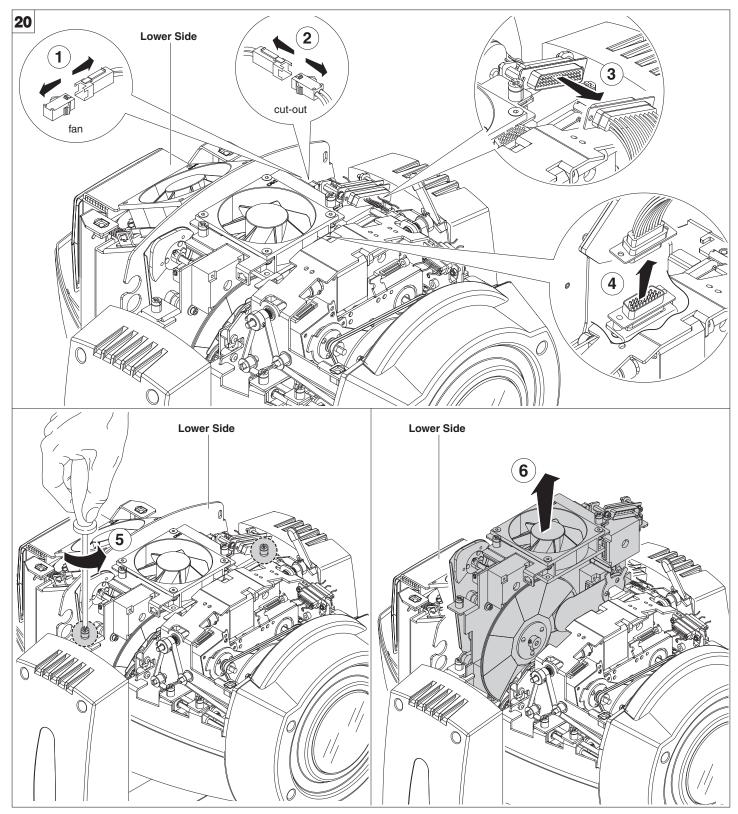


Periodical cleaning - Fig. 19

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.).

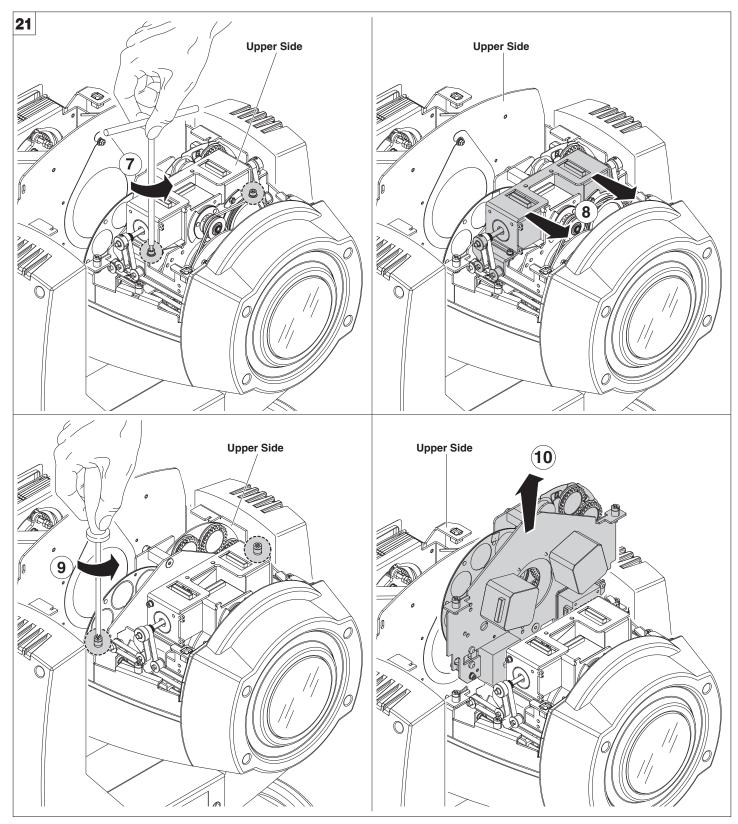
Use a soft cloth dampened with any detergent liquid for cleaning glass to remove the dirt from the reflectors, from the lenses and filters. It is recommended that the projector undergoes an annual service by a qualified technician for special maintenance involving at least the following operations:

- 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.



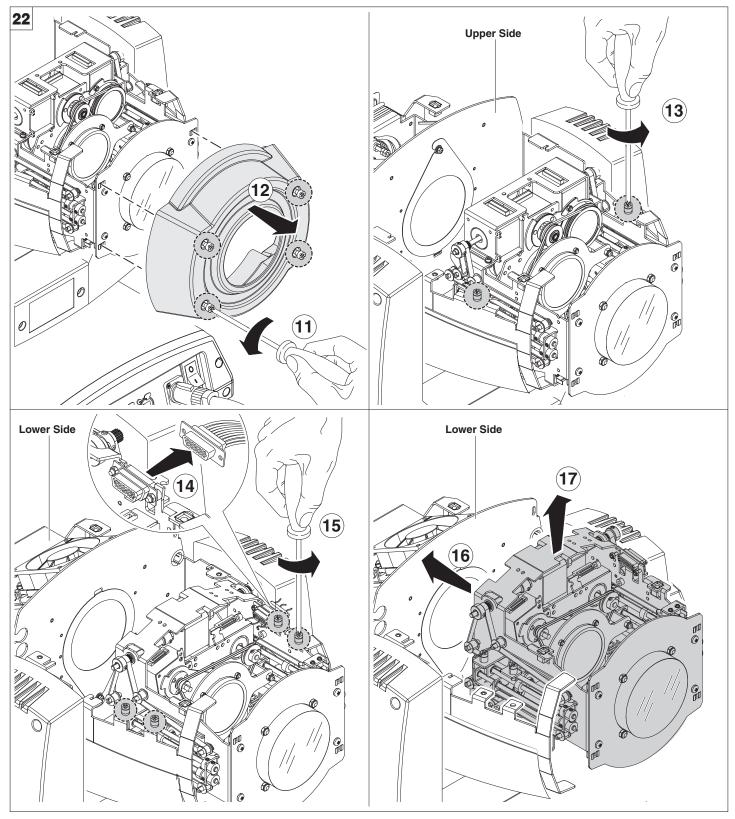
Extraction of the effect modules - Fig. 20

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. 20, 21 and 22 in reverse order.



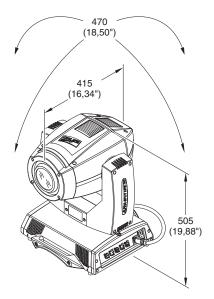
Extraction of the effect modules - Fig. 21

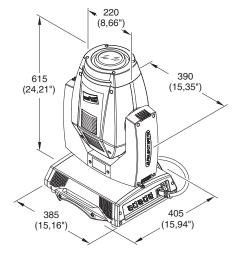
IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged. Insertion of the effect modules: Repeat the operations indicated in Fig. 20, 21 and 22 in reverse order.



Extraction of the effect modules - Fig. 22

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. 20, 21 and 22 in reverse order.





Power supplies available 100-120V 50/60Hz 200-240V 50/60Hz

200 2101 00,00

Input power

• 1050VA a 230V 50Hz.

Lamp

Discharge lamp.

- Type MSR Gold 700/2 Mini Fast Fit (L10098)
- Cap PGJX28
- Colour temperature 7200 K
- Luminous flux 50000 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 29 control channels.

Inputs

• DMX 512

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 = 250°
- Maximum speeds:
- PAN = 3.77 (normal) / 3.20 (fast)
- TILT = 2.19 (normal) / 1.89 (fast)
- 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.

Weight

• about 22.90 Kg (50lbs 6ozs).

CAUSE AND SOLUTION OF PROBLEMS

	THE PROJECTOR WILL NOT SWITCH ON								
		EL	ECT	RONICS NON-OPERATIONAL					
	DEFECTIVE 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.				
				Lenses or reflector broken	Call an authorised technician.				
				Dust or grease deposited.	Clean (see instructions).				

CHANNEL FUNCTION

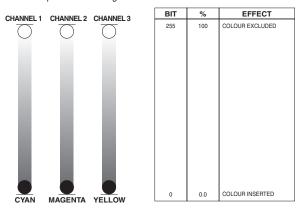
ALPHA SPOT HPE 700

	CHANNEL MODE							
CHANNEL	STANDARD	VECTOR						
1	CYAN	CYAN						
2	MAGENTA	MAGENTA						
3	YELLOW	YELLOW						
4	UNIFORM FIELD LENS	UNIFORM FIELD LENS						
5	COLOUR WHEEL	COLOUR WHEEL						
6	STOP / STROBE	STOP / STROBE						
7	DIMMER	DIMMER						
8	DIMMER FINE	DIMMER FINE						
9	IRIS	IRIS						
10	STATIC GOBO CHANGE	STATIC GOBO CHANGE						
11	ROTATING GOBO CHANGE	ROTATING GOBO CHANGE						
12	GOBO ROTATION	GOBO ROTATION						
13	GOBO FINE	GOBO FINE						
14	PRISM INSERTION	PRISM INSERTION						
15	PRISM ROTATION	PRISM ROTATION						
16	FROST	FROST						
17	FOCUS	FOCUS						
18	ZOOM	ZOOM						
19	PAN	PAN						
20	PAN FINE	PAN FINE						
21	TILT	TILT						
22	TILT FINE	TILT FINE						
23	FUNCTION	FUNCTION						
24	RESET	RESET						
25	LAMP CONTROL (with Option "Lamp Dmx" ON)	LAMP CONTROL (with Option "Lamp Dmx" ON)						
26		PAN - TILT TIME						
27		COLOUR TIME						
28		BEAM TIME						
29		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%.

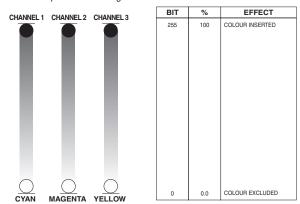
• COLOUR MIXING - channel 1 - 2 - 3

Operation with option color mixing: RGB



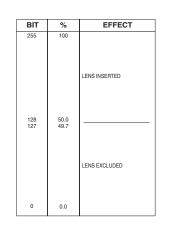
IMPORTANT: The lamp dim to half power 1 second after all the 3 channels stay at 0% level. The lamp goes back to full power when the channels level is put higher than 0%.

Operation with option color mixing: CMY



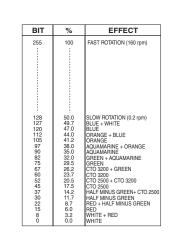
IMPORTANT: The lamp dim to half power 1 second after all the 3 channels stay at 100% level. The lamp goes back to full power when the channels level is put lower than 100%.

• UNIFORM FIELD LENS - channel 4

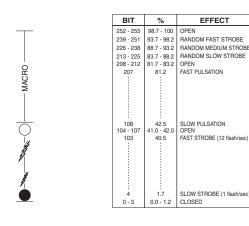


• COLOUR WHEEL - channel 5

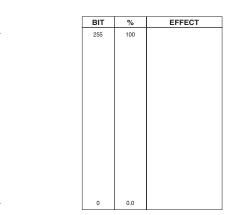




• STOPPER / STROBE - channel 6



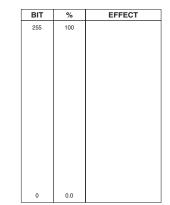
• DIMMER - channel 7



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

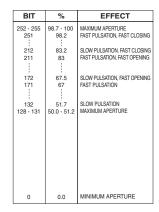
• DIMMER FINE - channel 8

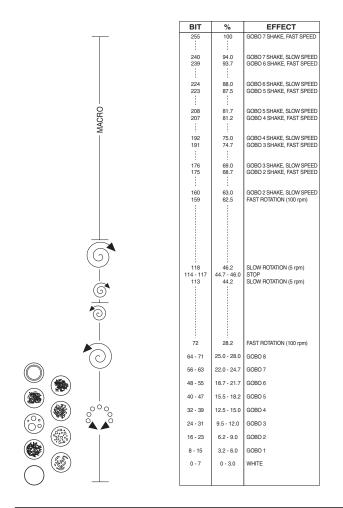




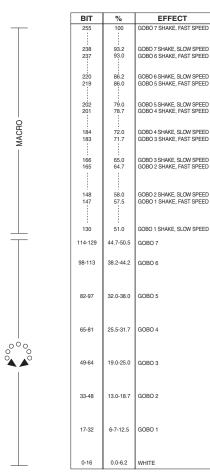
• IRIS - channel 9

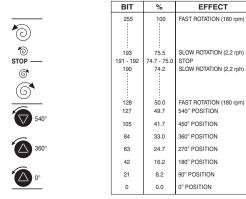




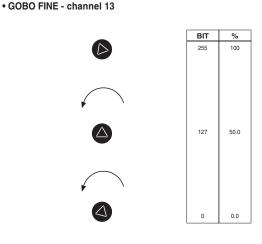


• ROTATING GOBO CHANGE - channel 11

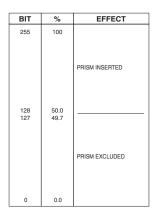




EFFECT



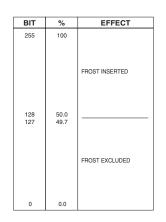
• PRISM INSERTION - channel 14



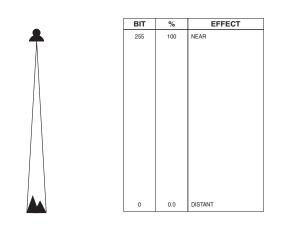
• PRISM ROTATION - channel 15



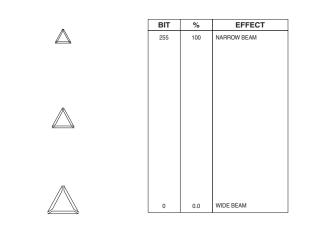
BIT	%	EFFECT
255	100	FAST ROTATION (120 rpm)
193	75.5	SLOW ROTATION (3 rph)
191 - 192	74.7 - 75.0	
190	74.2	SLOW ROTATION (3 rph)
128	50.0	FAST ROTATION (120 rpm)
127	49.7	POSITION 540°
105	41.7	POSITION 450°
84	33.0	POSITION 360°
63	24.7	POSITION 270°
42	16.2	POSITION 180°
21	8.2	POSITION 90°
0	0.0	POSITION 0°



• FOCUS - channel 17

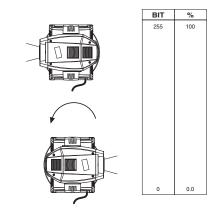


• ZOOM - channel 18

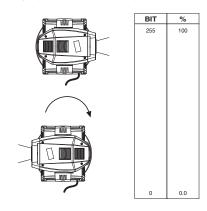


• PAN - channel 19

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

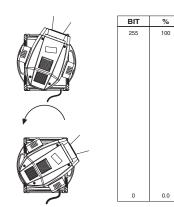


Operation with option InvertPan $\,\hat{\circ}\,$ On (Tilt conventionally represented at 14% and option Invert Tilt $\,\hat{\circ}\,$ Off)

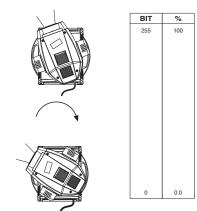


• PAN FINE - channel 20

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



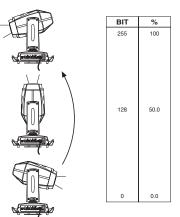
Operation with option InvertPan $\,^{\diamond}$ On (Tilt conventionally represented at 14% and option Invert Tilt $\,^{\diamond}$ Off)



• TILT - channel 21

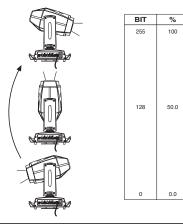
Operation with option Invert Tilt 🗘 Off

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



Operation with option Invert Tilt 🗘 On

(Pan conventionally represented at 0% and option Invert Pan $\, \stackrel{\scriptscriptstyle \wedge}{\circ} \, {\it Off})$



• TILT FINE - channel 22 Operation with option Invert Tilt \$ Off (Pan conventionally represented at 0% and option Invert Pan \$ Off)

BIT

255

0

BIT

255

0.0

%

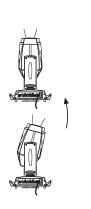
100

0.0

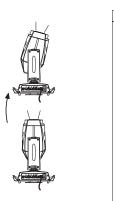
0

%

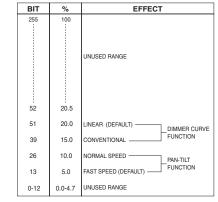
100







• FUNCTION - channel: 23



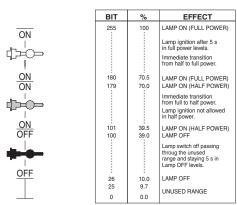
The functions are actived passing through the unused range and staying 5 seconds in necessary level

• RESET - channel: 24

BIT	%	EFFECT				
243 - 255	95.0 - 100	COMPLETE RESET				
		Complete reset is activated passing throug the unused range and staying 5 seconds in complete reset levels.				
240 - 242	94.0 - 94.7	Rotating Gobo OFFSET 13				
237 - 239	93.0 - 93.7	Rotating Gobo OFFSET 12				
234 - 236	91.7 - 92.5	Rotating Gobo OFFSET 11				
231 - 233	90.5 - 91.2	Rotating Gobo OFFSET 10				
228 - 230	89.5 - 90.0	Rotating Gobo OFFSET 9				
225 - 227	88.2 - 89.0	Rotating Gobo OFFSET 8				
222 - 224	87.0 - 88.0	Rotating Gobo OFFSET 7				
219 - 221	86.0 - 86.7	Rotating Gobo OFFSET 6				
216 - 218	84.7 - 85.5	Rotating Gobo OFFSET 5				
213 - 215	83.7 - 84.2	Rotating Gobo OFFSET 4				
210 - 212	82.5 - 83.2	Rotating Gobo OFFSET 3				
207 - 209	81.2 - 82.0	Rotating Gobo OFFSET 2				
204 - 206	80.0 - 81.0	Rotating Gobo OFFSET 1				
128 - 203	50 - 79.5	COMPLETE RESET				
		Complete reset is activated passing throug the unused range and staying 5 seconds in complete reset levels.				
77 - 127	30 - 49.7	PAN/TILT RESET				
		Pan/Tilt reset is activated passing throug the unused range and staying 5 seconds in Pan/Tilt reset levels.				
26 - 76	10 - 29.7	EFFECTS RESET				
		Effects reset is activated passing throug the unused range and staying 5 seconds in Effects reset levels.				
0 - 25	0.0 - 9.7	Unused range				

• LAMP CONTROL (only with option LAMP DMX On) - channel: 25

IMPORTANT: Alpha Spot HPE 700 is not provided with hot restrike igniter



TIMING CHANNELS

	Timing Channel	Channel function
26	Pan - Tilt time	Pan - Tilt - (Pan fine - Tilt fine)
27	Colour time	CMY - Colour wheel
28	Beam time	Dimmer - Frost - Iris - Focus - Zoom - Prism
29	Gobo time	Static Gobo - Rotating Gobo Change

TIME TABLE

BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds	BIT	Seconds
0	Full	43	8.6	86		129		172		216	470
1	0.2	44	8.8	87	24	130	41	173	58	217	170
2	0.4	45	9	88		131		174		218	
3	0.6	46	9.2	89	25	132	40	175		219	180
4	0.8	47	9.4	90		133	42	176	59	220	
5	1	48	9.6	91	00	134		177		221	100
6	1.2	49	9.8	92	26	135	43	178	60	222	190
7	1.4	50	10	93		136		179		223	
8	1.6	51	10.2	94	27	137	4.4	180		224	200
9	1.8	52	10.4	95		138	44	181	65	225	
10	2	53	10.6	96	00	139		182		226	
11	2.2	54		97	28	140	45	183	70	227	210
12	2.4	55	11	98		141		184		228	
13	2.6	56	10	99	29	142	40	185		229	000
14	2.8	57	12	100		143	46	186	75	230	220
15	3	58	10	101		144		187		231	
16	3.2	59	13	102	30	145	47	188	80	232	230
17	3.4	60		103		146		189		233	
18	3.6	61	14	104	01	147	40	190	05	234	0.40
19	3.8	62		105	31	148	48	191	85	235	240
20	4	63	15	106		149		192		236	
21	4.2	64	15	107	32	150	49	<u>193</u> 194	90	237	250
22	4.4	65		108		151				238	
23	4.6	66	16	109	00	152		195	95	239	000
24	4.8	67		110	33	153	50	<u>196</u> 197	95	240	260
25	5	68	47	111		154		197		241	
26	5.2	69	17	112	34	155	54	190	100	242	270
27	5.4	70		113		156	51	200		243	
28	5.6	71	18	114	05	157		200	110	244	000
29	5.8	72		115	35	158	52	202	110	245	280
30	6	73	10	116		159		202		246	
31	6.2	74	19	117	36	160	50	204	120	247	290
32	6.4	75		118		161	53	205		248	
33	6.6	76	20	119	07	162		206		249	200
34	6.8	77		120	37	163	54	207	130	250	300
35	7	78		121		164		208		251	
36	7.2	79	21	122	38	165		209	140	252	010
37	7.4	80		123		166	55	210		253	310
38	7.6	81	00	124		167		211		254	
39	7.8	82	22	125	39	168	56	212	150	0.55	Follow cue
40	8	83		126		169		213		255	Data
41	8.2	84	23	127		170		214	160		
42	8.4	85		128	40	171	57	215			

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