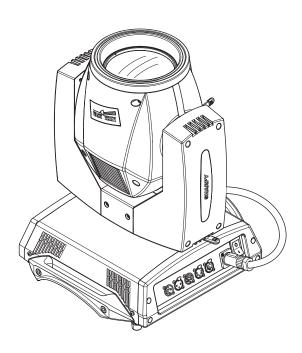
INSTRUCTION MANUAL



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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

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 12 metres (39'4") 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.



ta 40°C

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.

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 100°C (212°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, to avoid getting burnt for at least 35 minutes. After this time the likelihood of the lamp exploding is virtually nill.

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

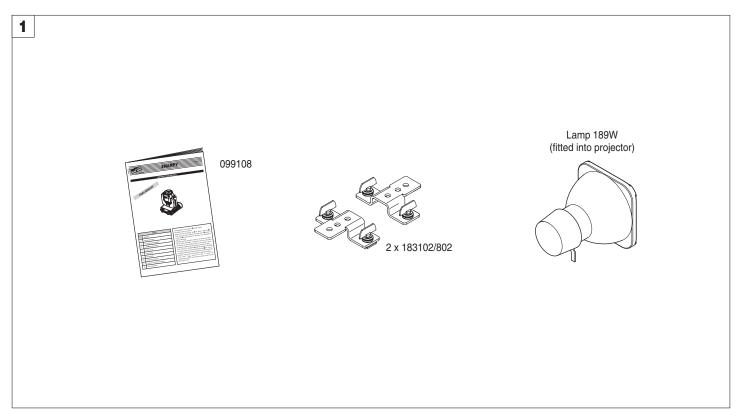


The products referred to in this manual conform to the European Community Directives to which they are subject:

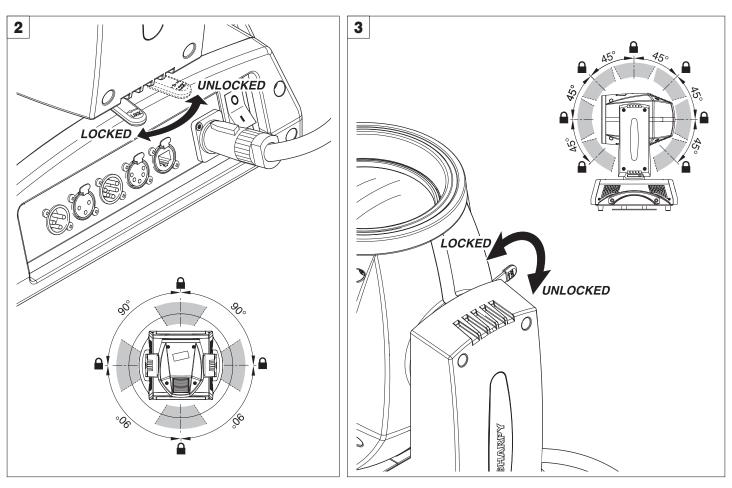
- Low Voltage 2006/95/CE
- Electromagnetic Compatibility 2004/108/CE

2

UNPACKING AND PREPARATION



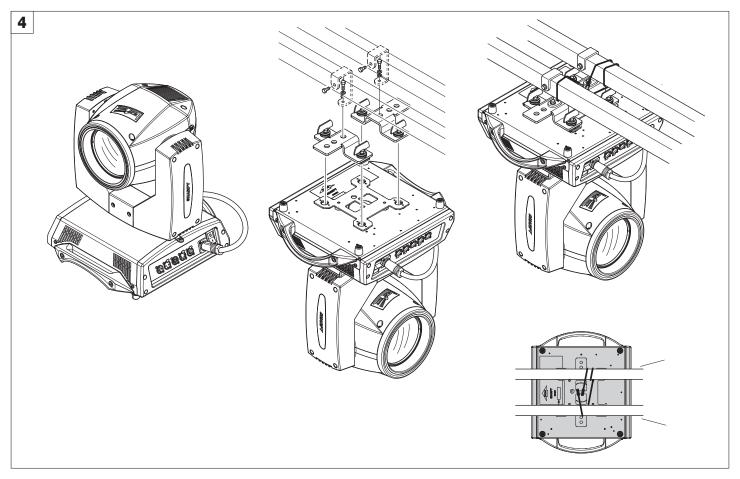
Packing contents - Fig. 1



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

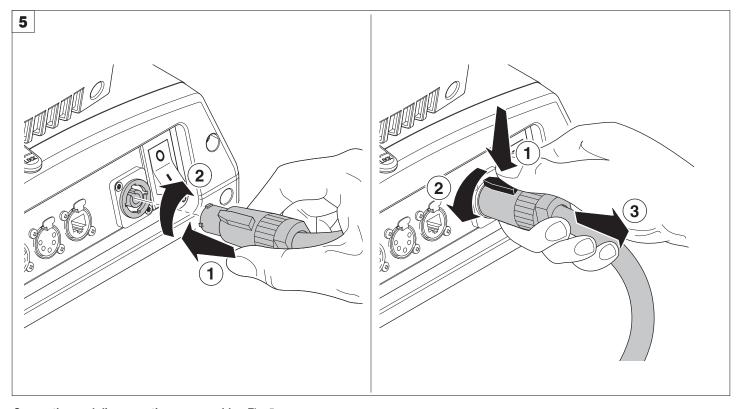
TILT Mechanism Lock and Release (every 45°) - Fig. 3

INSTALLATION AND START-UP



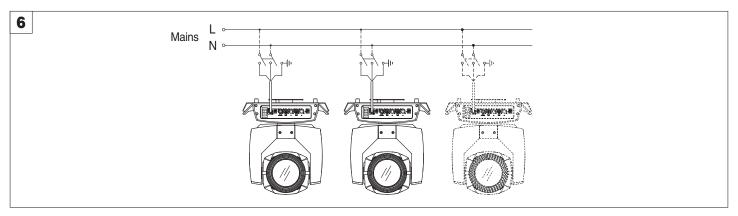
Installing the projector - Fig. 4
The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.

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.

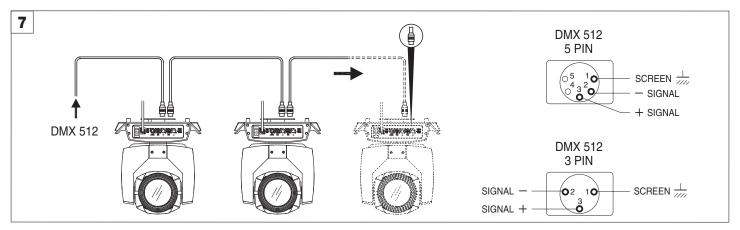


Connecting and disconnecting power cable - Fig. 5

CONTROL PANEL



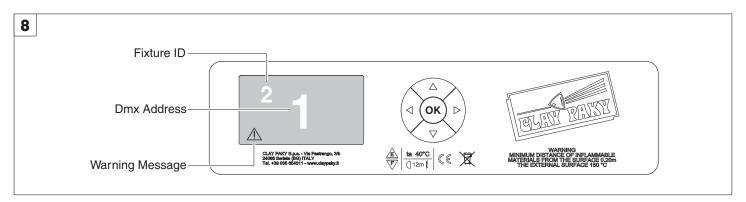
Connecting to the mains supply - Fig. 6



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:

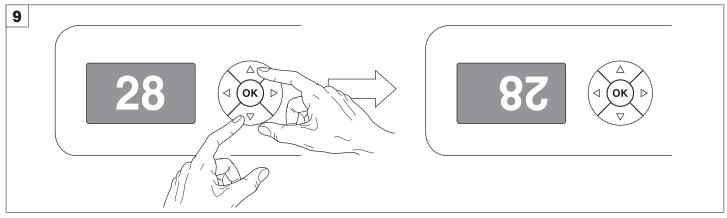


Model SHARPY Firmware Version X.X.X Date - Hour

xxx (Fixture ID) Dmx Address xxx System errors E: W:

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 (about 30 seconds) without any key having been pressed, the display automatically returns to rest status.



Reversal of the display - Fig. 9

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

Setting the projector starting address

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

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

Setting the address: see pag. 8.

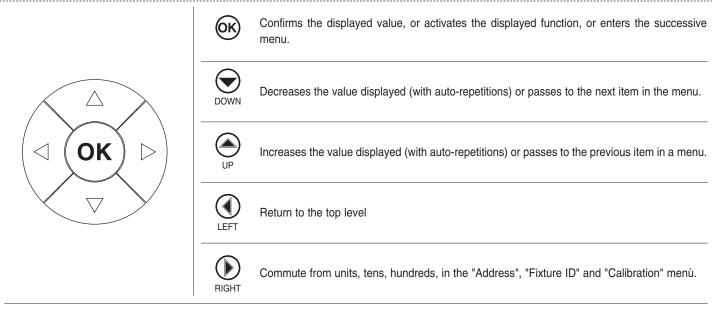
Setting the projector Fixture ID

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 (or) once "Main Menu" appears on the display.
- 2) Use the UP (a) and DOWN (b) 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

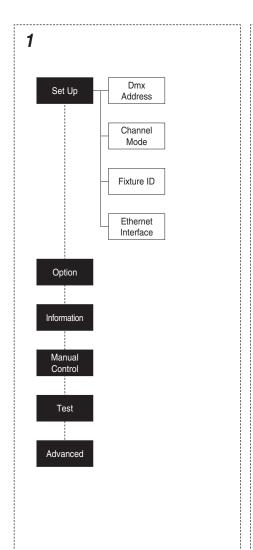
- 3) Press (x) to display the first item in the selected menu.
- 4) Use the UP and DOWN keys to select the MENU items.

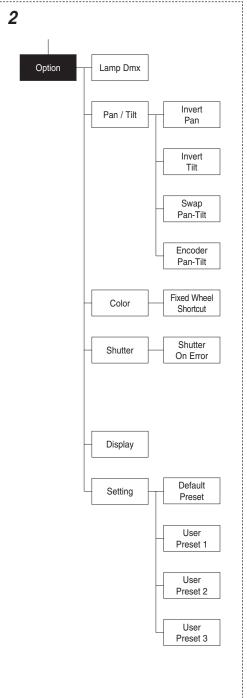
Setting addresses and options with the projector disconnected

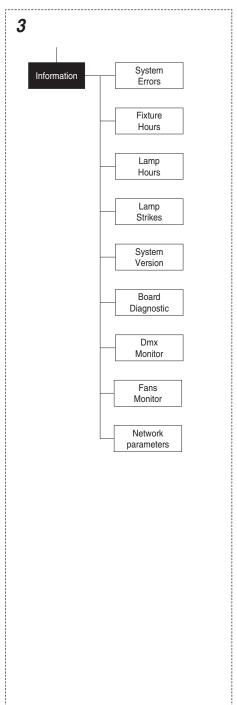
The projector's DMX address, as well as other possible operating options, can also be set when the appliance is disconnected from the electricity supply. All that is needed is to press to momentarily activate the display and thus access the settings. Once the required operations have been carried out,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

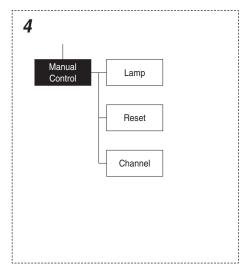
MENU SETTING

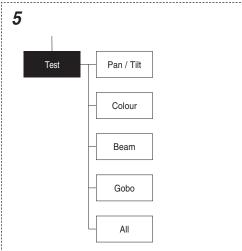
MAIN MENU

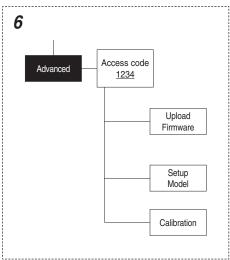


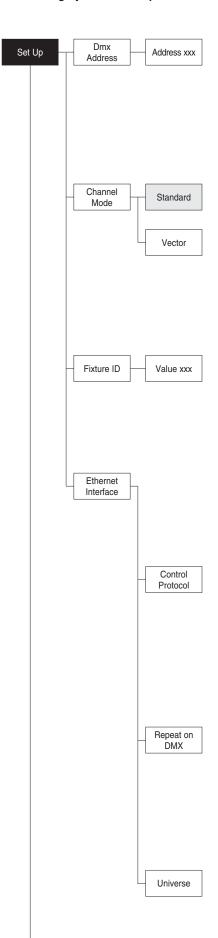












SET UP MENU

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.
- Use the UP

 and DOWN
 RIGHT
 keys to plan the DMX Address.
- 3) Press (to confirm the selection or LEFT (to keep current settings.

CHANNEL MODE

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

- 1) Press 🕟 the current settings appear on the display (Standard or Vector)
- 2) Use the UP (a) and DOWN (b) keys to select one of the following settings:
 - Standard
 - Vector
- 3) Press (x) to confirm the selection or LEFT (1) 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 (B), RIGHT (B) keys to plan the Fixture ID.
- 3) Press (x) to confirm the selection or LEFT (1) to keep current settings.

ETHERNET INTERFACE

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

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

Control Protocol

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

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

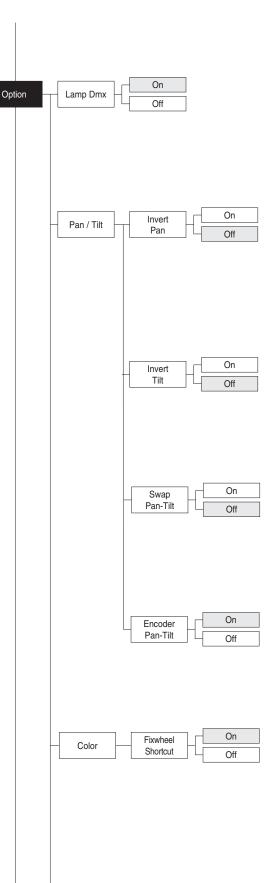
- 1) Press the current setting appears on the display.
- 2) Use the UP and DOWN keys to select one of the following settings:
 - Disabled: DMX transmission disabled.
 - Enabled on primary: DMX transmission enabled.
- 3) Press (to confirm the selection or LEFT (to keep the current setting.

Universe

8

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

- 1) Press (or) the current Universe address appears on the display.
- 2) Use the UP (A), DOWN (RIGHT (IV) keys to set the Universe address.
- 3) Press (to confirm the selection or LEFT (to keep the current setting.



OPTIONS MENU

LAMP DMX

Used for enabling lamp remote control channel.

- 1) Press (ox) 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 (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 (x) to confirm the selection or LEFT (1) 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 (to confirm the selection or LEFT (to keep current settings.

Encoder Pan-Tilt

Used for enabling the Pan / Tilt encoders.

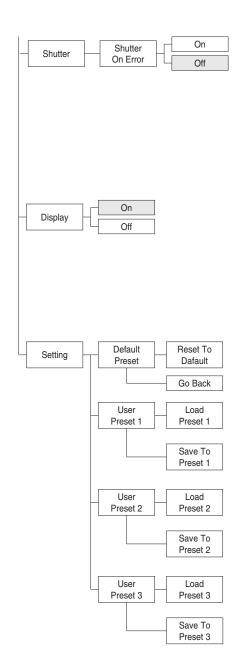
- 1) Press 🕟 the current settings appear on the display (On or Off).
- 2) Use the UP
 and DOWN
 keys to enable (On) or disable (Off) Pan / Tilt encoders.
- 3) Press (x) to confirm the selection or LEFT (1) to keep current settings.

COLOR

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).
- 2) Use the UP
 and DOWN
 keys to enable (On) or disable (Off) color change optimization.
- 3) Press (x) to confirm the selection, or LEFT (1) to keep current settings.



SHUTTER

Shutter on error

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

- 1) Press (ix) 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.

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 (x) to confirm the selection or LEFT (1) 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 🕟 "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 (x), 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 Fixed Wheel Shortcut On Shutter on error Off 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).

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

Total counter

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

Partial counter

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

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

- 2) 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).

1) Press 🕟 - 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)

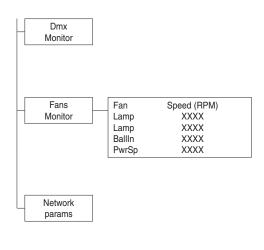
0: PT-3f (Pan / Tilt board)

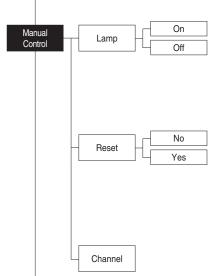
1: 8-Ch (8 channel board)

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)







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:

Lamp (Lamp Fan)

Ball. IN (Ballast IN Fan)

PwrSp (Power Supply 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: 255.0.0.0

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

MANUAL CONTROL

IAMP

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

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

TEST MENU

TEST

Allows you to check the proper functioning of effects.

- 1) Press (to return to the top menu level.
- 2) Use the UP
 and DOWN
 keys to select the required test.
- 3) Press (x) to confirm the selection or LEFT (1) to keep current settings.

Test sequence:

Pan - Tilt effects (Pan & Tilt)

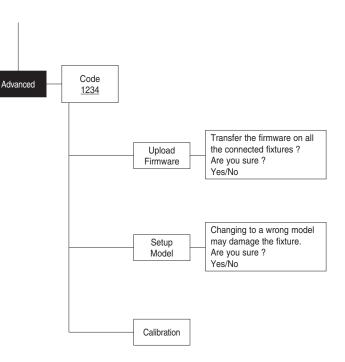
Colour effects (Colour wheel)

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

Gobo effects (Static gobo)

All effects

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ADVANCED MENU

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

Press 🔊 - "Menu advanced" appears on the display

UP LOAD FIRMWARE

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

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

SETUP MODEL

Allows you to change the default model of projector.

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

CALIBRATION

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

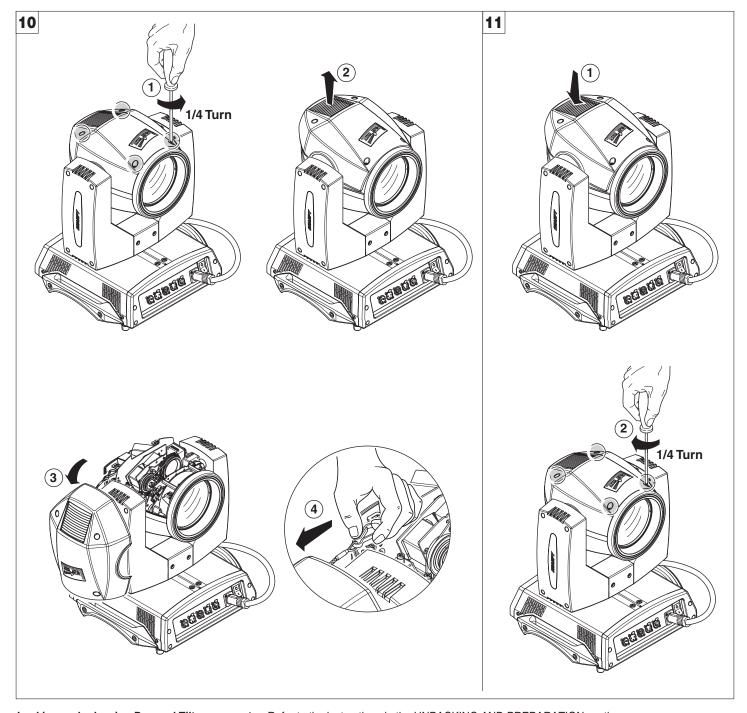
- 1) Press (ok) "channels" appears on the display.
- 2) Using the UP
 and DOWN
 keys, select the effect you wish to regulate.
- 3) Press ♠ and use the RIGHT ♠, UP ♠ and DOWN ♠ buttons to make the adjustment by setting a value between 0 and 255.
- 4) Press (x) to confirm the selection or LEFT (1) to keep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

FACTORY DEFAULT

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

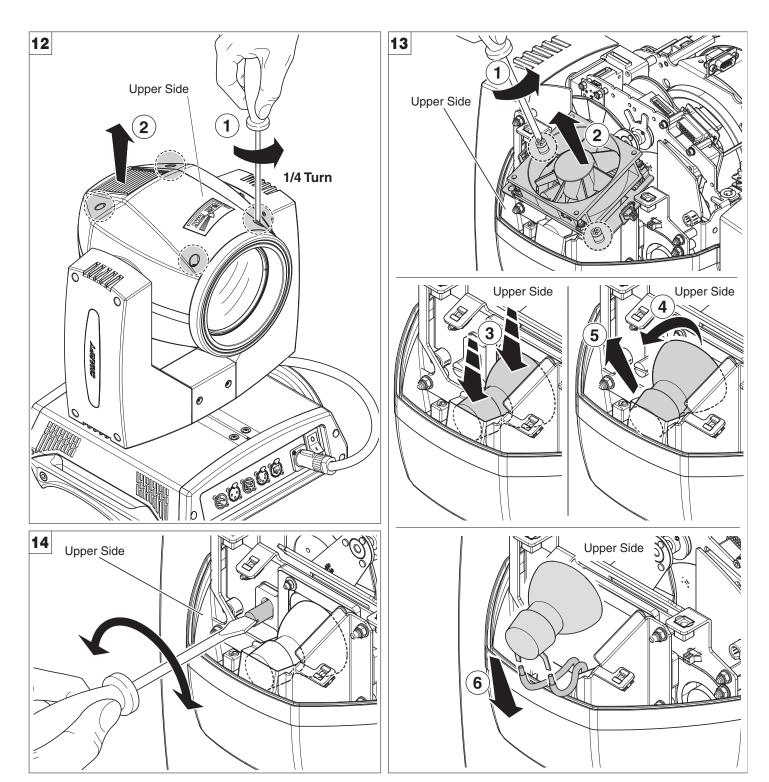
- 1) Press 🕟 a confirmation message appears on the display (Reset calibration to factory default ?).
- 2) Select YES to reset calibration to factory default or NO to keep the current setting and return to the top menu level.

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.

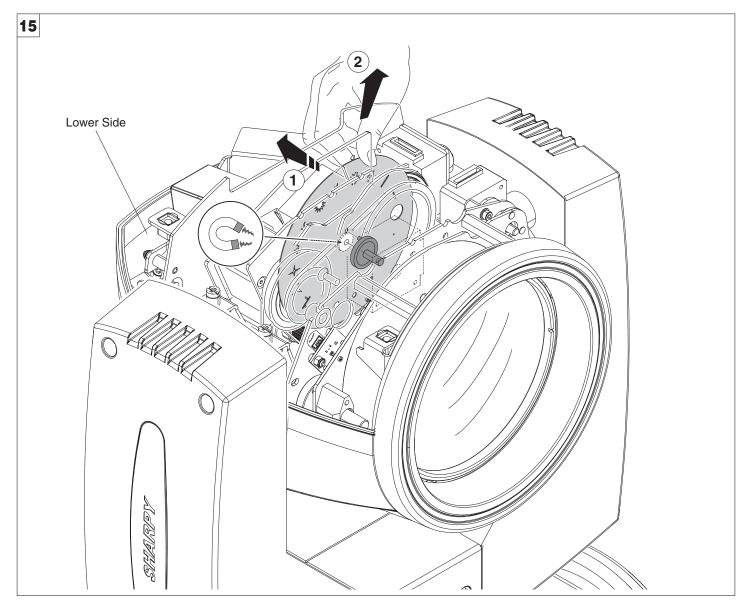
WARNING: do not touch the lamp's envelope with bare hands. Should this happen, clean the bulb with a cloth soaked in alcohol and dry it with a clean, dry cloth.

Lamp regulation - Fig. 14

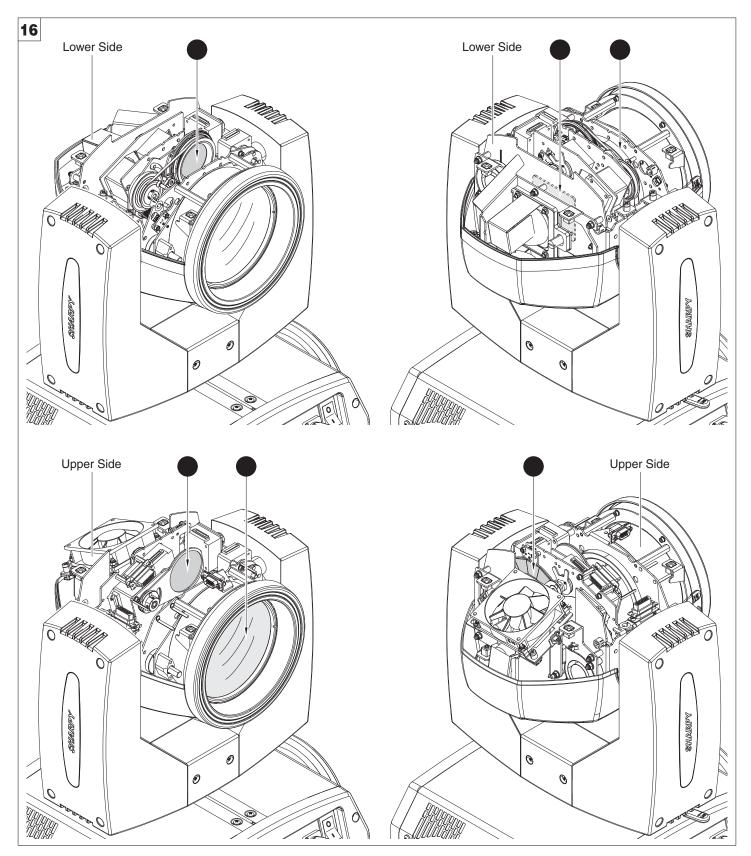
To centre the lamp, turn the adjusting screw as shown in the figure.

WARNING: The lamp must be adjusted with the projector switched off. After adjusting, close the effects covers, switch on the projector and check that the adjustment has been correctly made. If necessary, switch off the projector, remove the effects covers and repeat lamp adjustment.

NOTE: To adjust the lamp vertically (with regard to the Y axis) after having replaced it, it may be necessary to operate the **Calibration** in the **Menu Advanced** on the **Fixed Gobo Wheel channel**.



Replacing fixed gobos wheel - Fig. 15 WARNING: Before using personalised gobos wheel contact Clay Paky.

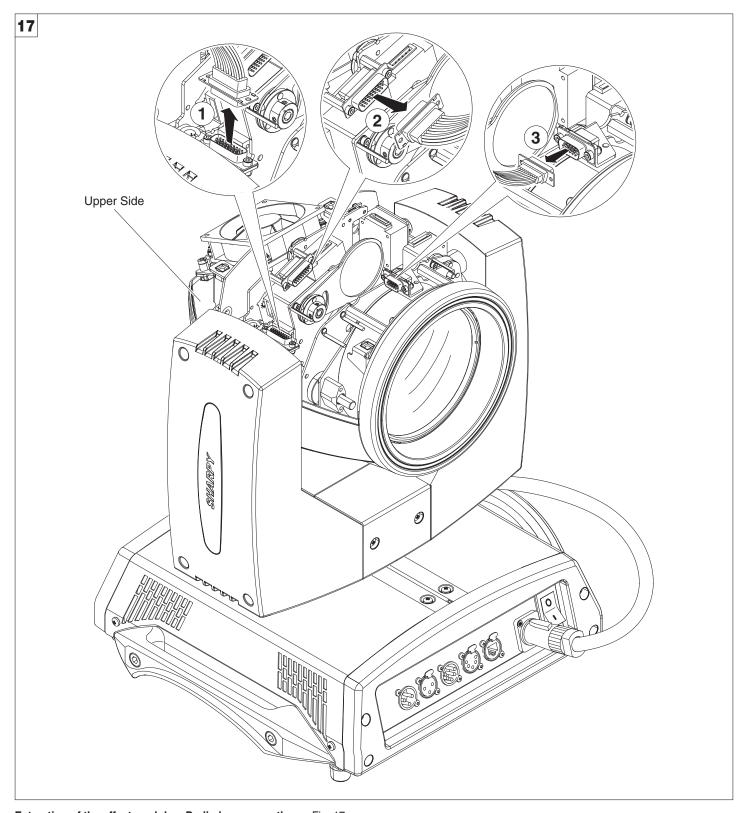


Periodical cleaning - Fig. 16

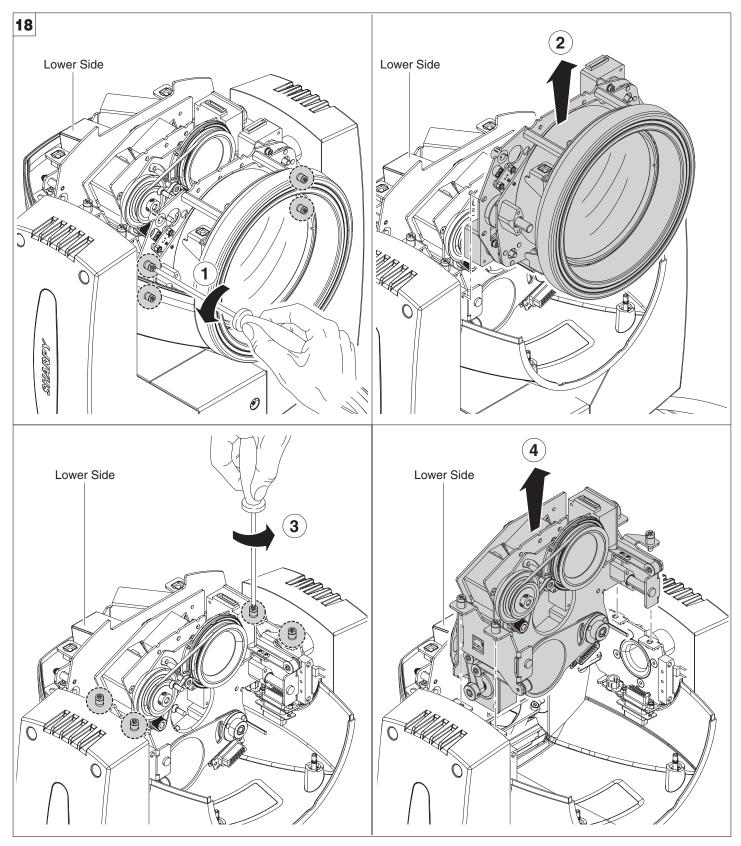
To ensure optimal operation and performance for a long time it is essential to periodically clean the parts subject to dust and grease deposits. The frequency with which the following operations are to be carried out depends on various factors, such as the amount of the effects and the quality of the 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 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. $17\,$

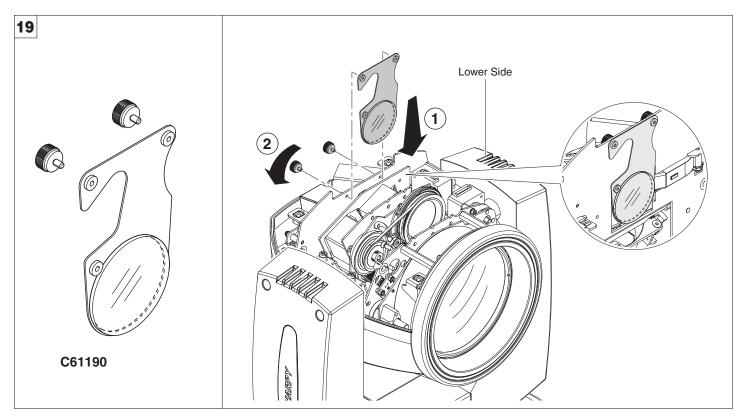


Extraction of the effect modules - Fig. 18

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

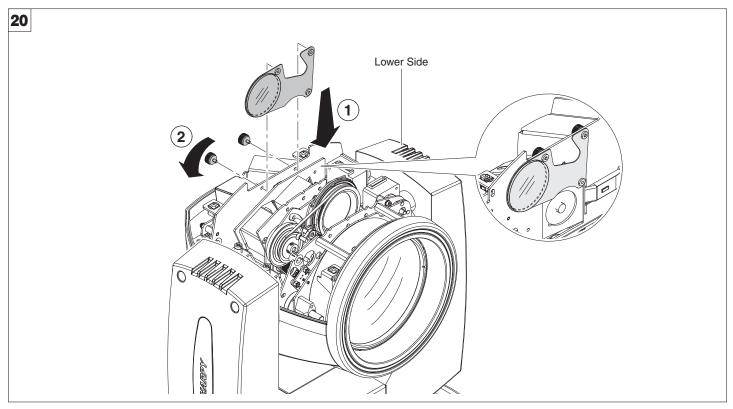
Insertion of the effect modules: Repeat the operations indicated in Fig. 17 and 18 in reverse order.

OPTIONAL ACCESSORIES



Heat screen filter - Fig. 19

An optional filter kit is also available when the SHARPY projector is used in environments that do not meet the minimum allowed distance of **12 metres** from illuminated objects; when this kit is assembled, the projector can be used at a minimum distance of **8 metres** from illuminated objects.



C61190 accessory can be placed inside the projector when not in use - Fig. 20

TECHNICAL INFORMATION

Power supplies available

115/230V 50/60Hz

Input power:

350VA a 230V 50Hz.

Lamp:

Lamp system with a short arc burner in a reflector

- Type MSD Platinum 5R (L10103)
- Output Lamp power: 189W
- Colour temperature 8000 K
- Luminous flux 7950lm
- Average life 2000 h
- Any working position

Motors:

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

Channels:

Max 20 control channels.

Inputs:

450

(17.72")

• 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 = 252°
- Maximum speeds:
- PAN = 2.45 sec
- TILT = 1.30 sec
- Resolution:
- PAN = 2.11°
- PAN FINE = 0.008°
- TILT = 0.98°
- TILT FINE = 0.004°

IP20 protection rating:

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

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:

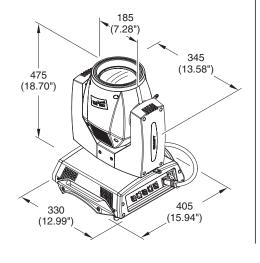
- Aluminium structure with die-cast plastic cover.
- Two side handles for transportation.
- Device locking PAN and TILT mechanisms for transportation and maintenance.

Working position

Functioning in any position.

Weights:

about 16 Kg (35lbs 3ozs).



(12.40")

280

(11.02")

CAUSE AND SOLUTION OF PROBLEMS

| | THE | ΞP | ROJ | ECTOR WILL NOT SWITCH ON | | |
|---|----------------------|----------------------------|-----|---|---------------------------------------|----------|
| | | EL | EC1 | RONICS NON-OPERATIONAL | PROBLEMS | |
| | DEFECTIVE PROJECTION | | | | | PROBLEMS |
| | REDUCED LUMINOSITY | | | | | |
| | | POSSIBLE CAUSES CHECKS AND | | | | 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

SHARPY

| CHANNEL | CHANNEL MODE | | | |
|---------|--|--|--|--|
| CHANNEL | STANDARD | VECTOR | | |
| 1 | COLOUR WHEEL | COLOUR WHEEL | | |
| 2 | STOP / STROBE | STOP / STROBE | | |
| 3 | DIMMER | DIMMER | | |
| 4 | STATIC GOBO CHANGE | STATIC GOBO CHANGE | | |
| 5 | PRISM INSERTION | PRISM INSERTION | | |
| 6 | PRISM ROTATION | PRISM ROTATION | | |
| 7 | EFFECTS MOVEMENT | EFFECTS MOVEMENT | | |
| 8 | FROST | FROST | | |
| 9 | FOCUS | FOCUS | | |
| 10 | PAN | PAN | | |
| 11 | PAN FINE | PAN FINE | | |
| 12 | TILT | TILT | | |
| 13 | TILT FINE | TILT FINE | | |
| 14 | FUNCTION | FUNCTION | | |
| 15 | RESET | RESET | | |
| 16 | LAMP CONTROL (with Option "Lamp Dmx" ON) | LAMP CONTROL (with Option "Lamp Dmx" ON) | | |
| 17 | | PAN - TILT TIME | | |
| 18 | | COLOUR TIME | | |
| 19 | | BEAM TIME | | |
| 20 | | GOBO TIME | | |

• COLOUR WHEEL - channel 1



| BIT | % | EFFECT |
|---|--|---|
| 255 | 100 | FAST ROTATION (160 rpm) |
| 128 124 120 110 111 107 103 99 44 90 64 66 65 52 47 43 39 35 300 26 22 18 13 13 5 0 | 50.0 49.7 49.7 49.7 49.7 49.5 49.7 49.5 38.7 27.0 20.5 18.2 18.2 18.2 19.0 | SLOW ROTATION (0.2 rpm) BLUE + WHITE BLUE CTB 8000 + BLUE CTB 8000 + CTD 8000 CTO 150 + CTB 8000 CTO 150 + CTD 8000 CTO 250 + CTO 190 CTO 250 + CTO 190 CTO 250 + CTO 250 CYAN MAGENTA + CYAN MAGENTA + CYAN MAGENTA YELLOW PINK + YELLOW PINK + YELLOW PINK + LAVENDER LIGHT GREEN + LAVENDER LIGHT GREEN + LAVENDER LIGHT GREEN + GREEN AQUAMARINE GREEN + LIGHT GREEN GREEN + GREEN ORANGE + ROUBMARINE GRANGE RED + ORANGE RED + ROUBMARINE ORANGE RED + ORANGE RED + ORANGE RED + ORANGE RED + WHITE + RED WHITE + RED |

• STOP / STROBE - channel 2



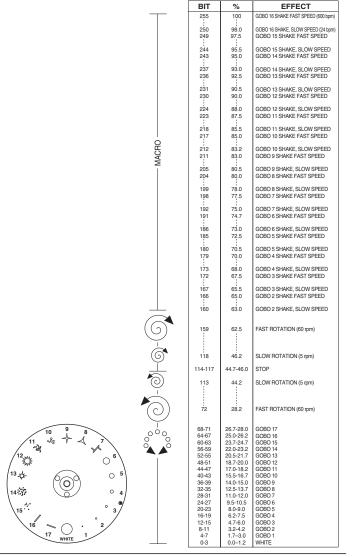
| BIT | % | EFFECT |
|------------------|---------------------|----------------------------|
| 252 - 255 | 98.7 - 100 | OPEN |
| 239 - 251 | 93.7 - 98.2 | RANDOM FAST STROBE |
| 226 - 238 | 88.7 - 93.2 | RANDOM MEDIUM STROBE |
| 213 - 225 | 83.7 - 88.2 | RANDOM SLOW STROBE |
| 208 - 212 | 81.7 - 83.2 | OPEN |
| 207 | 81.2 | FAST PULSATION (360 bpm) |
| | | |
| 108 | 42.5 | SLOW PULSATION (30 bpm) |
| 104 - 107 103 | 41.0 - 42.0 40.5 | OPEN |
| 103 | 40.5 | FAST STROBE (12 flash/sec) |
| 4 | 1.7 | SLOW STROBE (1 flash/sec) |
| 0 - 3 | 0.0 - 1.2 | CLOSED |

• DIMMER - channel 3



| BIT | % | EFFECT |
|-----|-----|-------------------|
| 255 | 0.0 | 0%-100%: 0.02 sec |

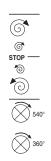
• STATIC GOBO CHANGE - channel 4



• PRISM INSERTION - channel 5

| BIT | % | EFFECT |
|-------------------|--------------|--|
| 255 128 127 | 50.0 49.7 | PRISM INSERTED 0%-100%: 0.36 sec PRISM EXCLUDED |
| 0 | 0.0 | |

• PRISM ROTATION - channel 6



| BIT | % | EFFECT |
|------------------|---------------------|---------------------------------|
| 255 | 100 | FAST ROTATION (43 rpm) |
| | | |
| 193 191 - 192 | 75.5 74.7 - 75.0 | SLOW ROTATION (1.1 rph) STOP |
| 190 | 74.7 - 75.0 | SLOW ROTATION (1.1 rph) |
| | | |
| 128 | 50.0 | FAST ROTATION (43 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° |

• EFFECTS MOVEMENT - channel 7

| 255 100 | |
|--------------|--------|
| 0%-100%: 0.3 | 33 sec |

• FROST - channel 8



| BIT | % | EFFECT |
|-----|-----|-----------------------------------|
| 255 | 100 | FROST INSERTED 0%-100%: 0.12 sec |
| 0 | 0.0 | FROST EXCLUDED |

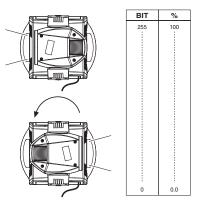
• FOCUS - channel 9



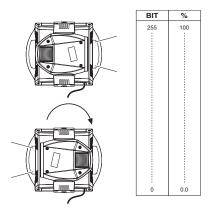
| BIT | % | EFFECT |
|-----|-----|-------------------|
| 255 | 100 | NEAR |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | 0%-100%: 1.11 sec |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| 0 | 0.0 | DISTANT |

• PAN - channel 10

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

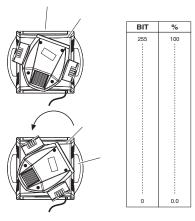


Operation with option InvertPan $\,\,\hat{\circ}\,$ On (Tilt conventionally represented at 14% and option Invert Tilt $\,\,\hat{\circ}\,$ Off)

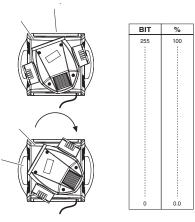


• PAN FINE - channel 11

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

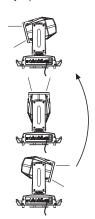


Operation with option InvertPan \$\hat{\circ}\$ On (Tilt conventionally represented at 14% and option Invert Tilt \$\hat{\circ}\$ Off)



• TILT - channel 12

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



| BIT | % |
|-----|------|
| 128 | 50.0 |

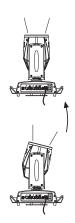
Operation with option Invert Tilt $\,\hat{\circ}\,$ On (Pan conventionally represented at 0% and option Invert Pan $\,\hat{\circ}\,$ Off)

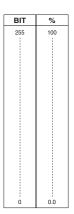


| BIT | % |
|-----|------|
| 128 | 50.0 |

• TILT FINE - channel 13

Operation with option Invert Tilt $\, \, {}^{\diamond}$ Off (Pan conventionally represented at 0% and option Invert Pan $\, \, \, {}^{\diamond}$ Off)





Operation with option Invert Tilt $\,\,\hat{\diamond}\,\,$ On (Pan conventionally represented at 0% and option Invert Pan $\,\,\hat{\diamond}\,\,$ Off)



| BIT | % |
|-----|-----|
| 255 | 100 |
| | |
| | |
| | 1 1 |
| 1 : | 1 |
| 1 : | |
| 1 : | |
| | |
| | |
| | |
| | |
| | |
| | |
| 1 : | |
| 1 : | |
| 1 1 | |
| | |
| | |
| | |
| | |
| | |
| 0 | 0.0 |

• FUNCTION - channel: 14

| BIT | % | EFFECT |
|-------|-----------|---------------------------------|
| 255 | 100 | UNUSED RANGE |
| 63 | 24.7 | |
| 51-62 | 20.0-24.2 | LINEAR (Default) — DIMMER CURVE |
| 38-50 | 14.7-19.5 | CONVENTIONAL FUNCTION |
| 25-37 | 9.7-14.2 | PAN-TILI |
| 12-24 | 4.7-9.5 | FAST (Default) FUNCTION |
| 0-11 | 0.0-4.2 | UNUSED RANGE |

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

• RESET - channel: 15

| BIT | % | EFFECT |
|------------|--------------|---|
| 255 | 100 | COMPLETE RESET |
| | | Complete reset is activated passing throug the unused range and staying 5 seconds in complete reset levels. |
| 128 127 | 50.0 49.7 | COMPLETE RESET PAN / TILT RESET |
| | | Pan / Tilt reset is activated passing throug the unused range and staying 5 seconds in Pan / Tilt reset levels. |
| 77 76 | 30.0 29.7 | PAN / TILT RESET EFFECTS RESET |
| | | Effects reset is activated passing throug the unused range and staying 5 seconds in Effects reset levels. |
| 26 25 | 10.0 9.7 | EFFECTS RESET |
| 0 | 0.0 | UNUSED RANGE |

• LAMP CONTROL (only with option LAMP DMX On) - channel: 16

IMPORTANT: SHARPY is not provided with hot restrike ignition



| BIT | % | EFFECT |
|------------|--------------|---|
| 255 | 100 | LAMP ON |
| | | Lamp switch-on passing through the unused range and staying 5 sec in Lamp ON levels. |
| 101 100 | 39.5 39.0 | LAMP ON LAMP OFF |
| | | Lamp switch off passing throug the unused range and staying 5 s in Lamp OFF levels. |
| 26 | 10.0 | LAMP OFF |
| 25 0 | 9.7 0.0 | UNUSED RANGE |

TIMING CHANNELS

| | Timing Channel | Channel function | |
|----|-----------------|-------------------------------------|--|
| 17 | Pan - Tilt time | Pan - Tilt - (Pan fine - Tilt fine) | |
| 18 | Colour time | Colour wheel | |
| 19 | Beam time | Dimmer - Frost - Prism | |
| 20 | Gobo time | Static Gobo | |

TIME TABLE

| BIT | Seconds |
|-----|---------|
| 0 | Full |
| 1 | 0.2 |
| 2 | 0.4 |
| 3 | 0.6 |
| 4 | 0.8 |
| 5 | 1 |
| 6 | 1.2 |
| 7 | 1.4 |
| 8 | 1.6 |
| 9 | 1.8 |
| 10 | 2 |
| 11 | 2.2 |
| 12 | 2.4 |
| 13 | 2.6 |
| 14 | 2.8 |
| 15 | 3 |
| 16 | 3.2 |
| 17 | 3.4 |
| 18 | 3.6 |
| 19 | 3.8 |
| 20 | 4 |
| 21 | 4.2 |
| 22 | 4.4 |
| 23 | 4.6 |
| 24 | 4.8 |
| 25 | 5 |
| 26 | 5.2 |
| 27 | 5.4 |
| 28 | 5.6 |
| 29 | 5.8 |
| 30 | 6 |
| 31 | 6.2 |
| 32 | 6.4 |
| | |
| 33 | 6.6 |
| 34 | 6.8 |
| 35 | |
| 36 | 7.2 |
| 37 | 7.4 |
| 38 | 7.6 |
| 39 | 7.8 |
| 40 | 8 |
| 41 | 8.2 |
| 42 | 8.4 |

| BIT | Seconds |
|-----|---------|
| 43 | 8.6 |
| 44 | 8.8 |
| 45 | 9 |
| 46 | 9.2 |
| 47 | 9.4 |
| 48 | 9.6 |
| 49 | 9.8 |
| 50 | 10 |
| 51 | 10.2 |
| 52 | 10.4 |
| 53 | 10.6 |
| 54 | 4.4 |
| 55 | 11 |
| 56 | 40 |
| 57 | 12 |
| 58 | 40 |
| 59 | 13 |
| 60 | |
| 61 | 14 |
| 62 | |
| 63 | 4.5 |
| 64 | 15 |
| 65 | |
| 66 | 16 |
| 67 | |
| 68 | 47 |
| 69 | 17 |
| 70 | |
| 71 | 18 |
| 72 | |
| 73 | 40 |
| 74 | 19 |
| 75 | |
| 76 | 20 |
| 77 | |
| 78 | |
| 79 | 21 |
| 80 | |
| 81 | 00 |
| 82 | 22 |
| 83 | |
| 84 | 23 |

| BIT | Seconds |
|------------|----------|
| 86 | Jeconius |
| 87 | 24 |
| 88 | |
| 89 | 25 |
| 90 | |
| 91 | |
| 92 | 26 |
| 93 | |
| 94 | 27 |
| 95 | |
| 96 | 00 |
| 97 | 28 |
| 98 | |
| 99 | 29 |
| 100 | |
| 101 | |
| 102 | 30 |
| 103 | |
| 104 | 31 |
| 105 | |
| 106 | |
| 107 | 32 |
| 108 | |
| 109 | 33 |
| 110 | |
| 111 | <u> </u> |
| 112 | 34 |
| 113 | |
| 114 | 35 |
| 115 | |
| 116 | 20 |
| 117 | 36 |
| 118 119 | |
| | 37 |
| 120 121 | |
| 121 | 20 |
| | 38 |
| 123 124 | |
| 125 | 39 |
| 126 | J9 |
| 127 | |
| 128 | 40 |
| 120 | |

| BIT | Seconds |
|-----|------------|
| 129 | |
| 130 | 41 |
| 131 | |
| 132 | |
| 133 | 42 |
| 134 | |
| 135 | 43 |
| 136 | |
| 137 | |
| 138 | 44 |
| 139 | |
| 140 | 45 |
| 141 | |
| 142 | |
| 143 | 46 |
| 144 | |
| 145 | 47 |
| 146 | |
| 147 | |
| 148 | 48 |
| 149 | |
| 150 | 49 |
| 151 | |
| 152 | |
| 153 | 50 |
| 154 | |
| 155 | |
| 156 | 51 |
| 157 | |
| 158 | 52 |
| 159 |) <u>-</u> |
| 160 | |
| 161 | 53 |
| 162 | |
| 163 | 54 |
| 164 | J-1 |
| 165 | |
| 166 | 55 |
| 167 | |
| 168 | 56 |
| 169 | 30 |
| 170 | |
| 171 | 57 |
| 171 | |

| BIT | Seconds |
|-----|---------|
| 172 | |
| 173 | 58 |
| 174 | |
| 175 | |
| 176 | 59 |
| 177 | |
| 178 | |
| 179 | 60 |
| 180 | |
| 181 | 65 |
| 182 | |
| 183 | |
| 184 | 70 |
| 185 | |
| 186 | 75 |
| 187 | |
| 188 | |
| 189 | 80 |
| 190 | |
| 191 | 85 |
| 192 | 00 |
| 193 | |
| 194 | 90 |
| 195 | |
| 196 | 95 |
| 197 | 95 |
| | |
| 198 | 100 |
| 199 | |
| 200 | 110 |
| 201 | 110 |
| 202 | |
| 203 | 400 |
| 204 | 120 |
| 205 | |
| 206 | 130 |
| 207 | |
| 208 | |
| 209 | 140 |
| 210 | |
| 211 | 150 |
| 212 | 100 |
| 213 | |
| 214 | 160 |
| 215 | |
| | |

| Seconds |
|-------------------|
| 170 |
| 170 |
| |
| 180 |
| |
| |
| 190 |
| |
| 200 |
| |
| |
| 210 |
| |
| |
| 220 |
| |
| 230 |
| 200 |
| |
| 240 |
| |
| 250 |
| 230 |
| |
| 260 |
| |
| 070 |
| 270 |
| |
| 280 |
| |
| 000 |
| 290 |
| |
| 300 |
| |
| |
| |
| 310 |
| 310 |
| |
| 310 Follow cue |
| |
| |

SHARPY 26

85