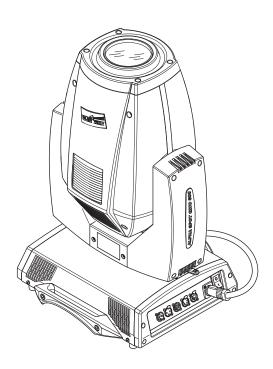
INSTRUCTION MANUAL



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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

ΕN

SAFETY INFORMATION

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

http://www.claypaky.it/en

Ref: [FIS00Y - Safety Information Alpha 800 series]

IT

INFORMAZIONI DI SICUREZZA

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

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

Rif: [FIS00Y - Safety Information Alpha 800 series]

DE

INFORMATIONEN ZUR SICHERHEIT

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

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

Ref: [FIS00Y - Safety Information Alpha 800 series]

ES

INFORMACIONES DE SEGURIDAD

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

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

Ref: [FIS00Y - Safety Information Alpha 800 series]

FR

CONSIGNES DE SÉCURITÉ

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

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

Réf.: [FIS00Y - Safety Information Alpha 800 series]

RU

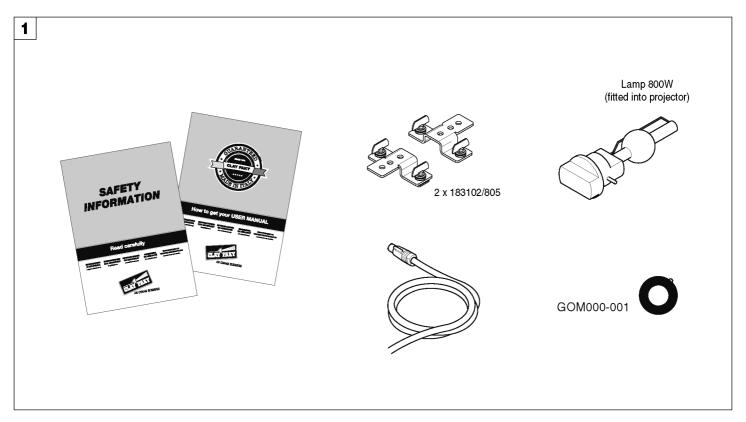
ИНСТРУКЦИЮ ПО ТЕХНИКЕ БЕЗОПАСНОСТИ

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

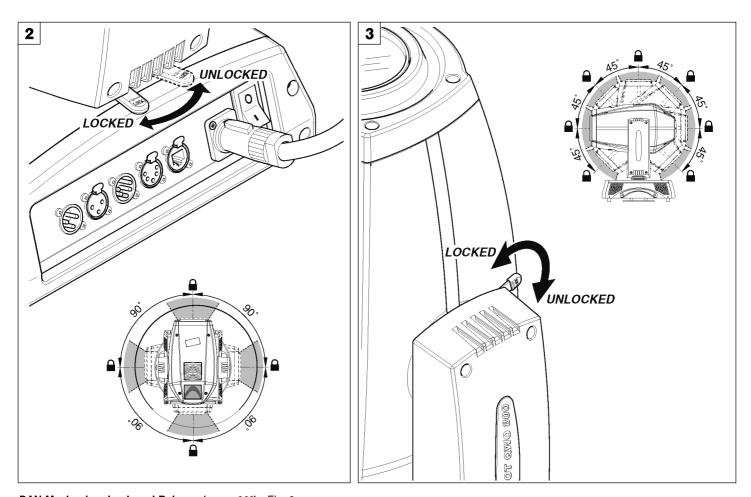
http://www.claypaky.it/en/download

Haименование: [FIS00Y – Safety Information Alpha 800 series]

UNPACKING AND PREPARATION



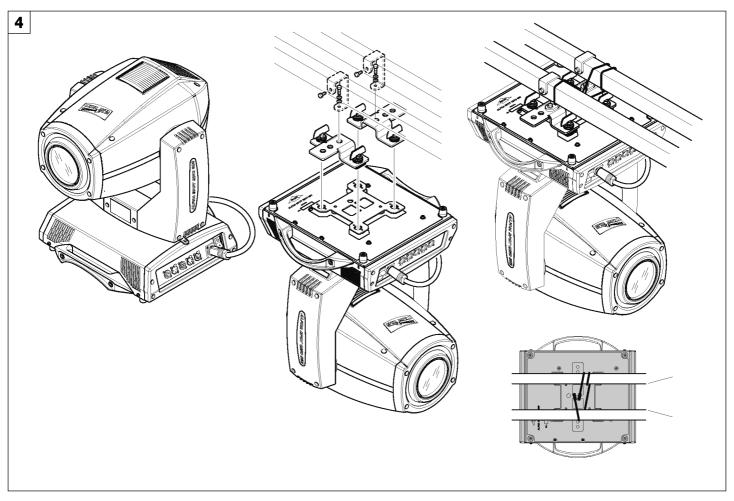
Packing contents - Fig. 1



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

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

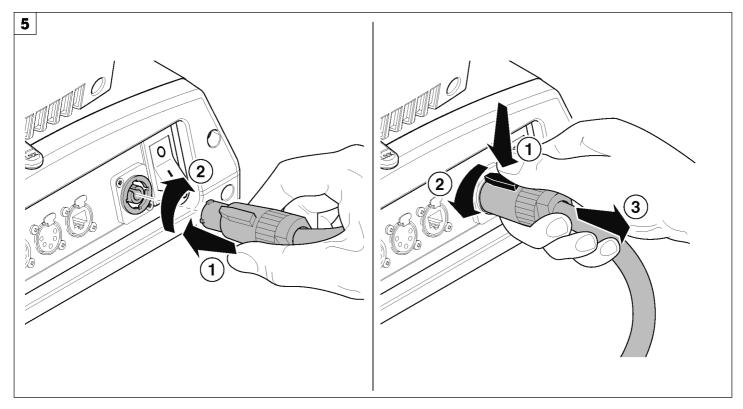
INSTALLATION AND START-UP



Installing the projector - Fig. 4

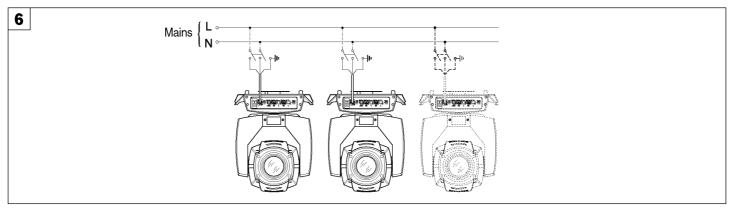
The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.

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.

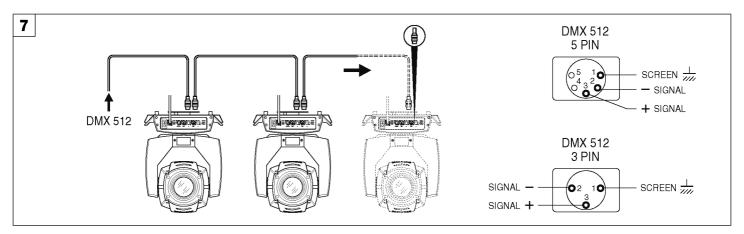


Connecting and disconnecting power cable - Fig. 5

CONTROL PANEL



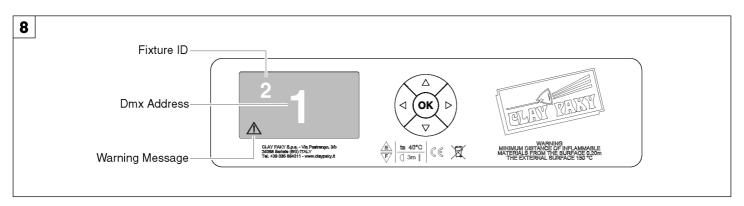
Connecting to the mains supply - Fig. 6



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:



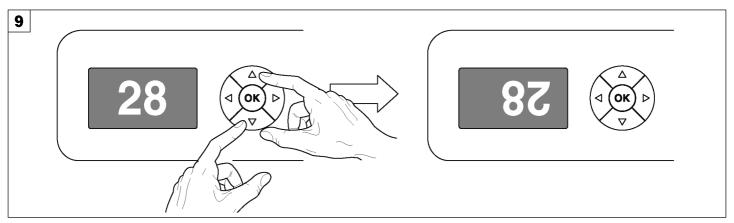
Model Alpha SPOT QWO 800 Firmware Version X.X.X Date - Hour

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 128 bit - Tilt 128 bit). The control panel (Fig. 8) has a display and buttons for the complete programming and management of the projector menu. The display can be in one of two conditions: rest status and setting status. When it is in the rest status, the display shows the projector's DMX address and the Fixture ID address (if set).

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



Reversal of the display - Fig. 9

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

Setting the projector starting address

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

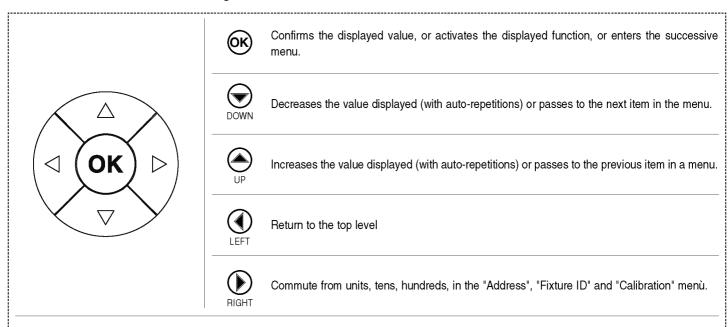
The address can also be set with the projector switched off.

Setting the projector Fixture ID

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

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

Functions of the buttons - Using the menu



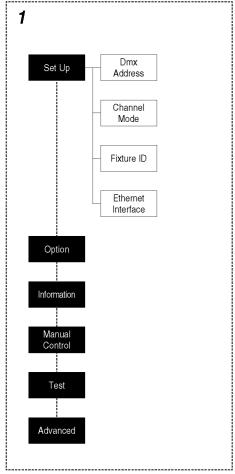
USING THE MENU:

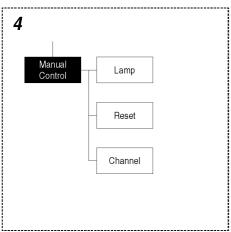
- 1) Press on once "Main Menu" appears on the display.
- 2) Use the UP
 and DOWN
 keys to select the menu to be used:
 - Setup (Setup Menu): To set the setting options.
 - Option (Option Menu): To set the operating options
 - Informations (Informations Menu): To read the counters, software version and 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.
- 3) Press (x) to display the first item in the selected menu.
- 4) Use the UP
 and DOWN
 keys to select the MENU items.

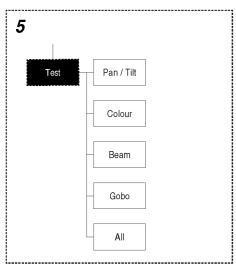
Setting addresses and options with the projector disconnected

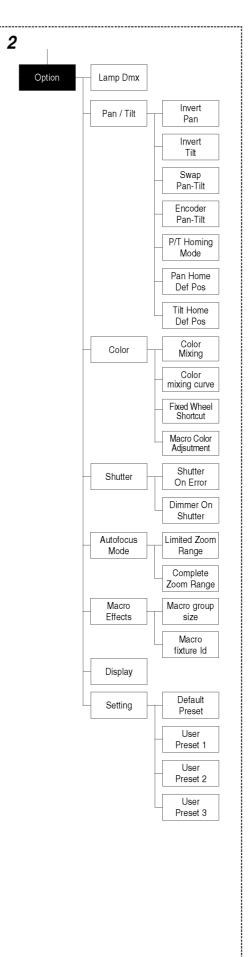
The projector's DMX address, as well as other possible operating options, can also be set when the appliance is disconnected from the electricity supply. All that is needed is to press to momentarily activate the display and thus access the settings. Once the required operations have been carried out,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

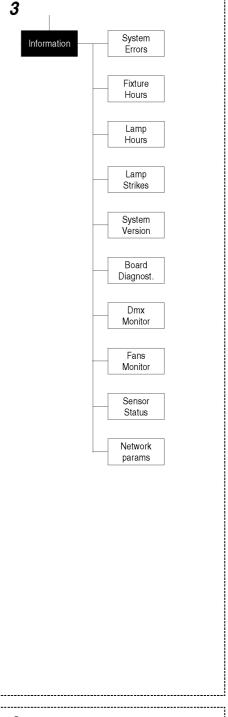
MENU SETTING

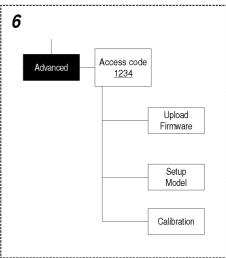


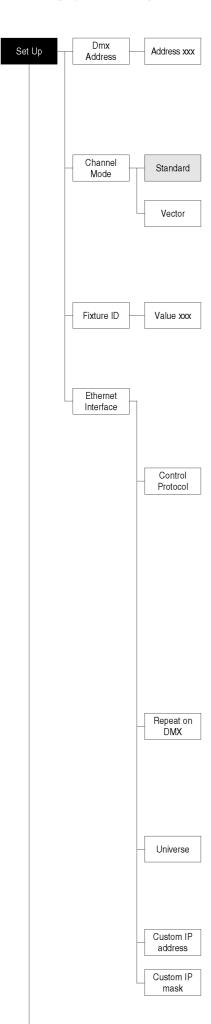












SET UP MENU

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

CHANNEL MODE

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

- Press S the current settings appear on the display (Standard or Vector).
- 2) Use the UP and DOWN keys to select one of the following settings:
 - Standard
 - Vector
- 3) Press (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

 , DOWN
 , RIGHT
 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 (x) 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
 - Art-net Custom IP
- 3) Press (S) to confirm the selection or LEFT (1) to keep the current setting. If the Control Protocol option is set on Disabled, when an IP address (IP2, IP10 or IP Custom) is selected, the projector immediately initializes the IP address that was just selected. If the Control Protocol option is enabled (IP2, IP10 or IP Custom) and a new one is selected that is different from the previous one, the projector must be restarted so that it will be correctly initialized.

Repeat on DMX

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

- 1) Press (the current setting appears on the display.
- 2) Use the UP (a) and DOWN (b) 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 🕟 the current Universe address appears on the display.
- 2) Use the UP

 , DOWN

 , RIGHT

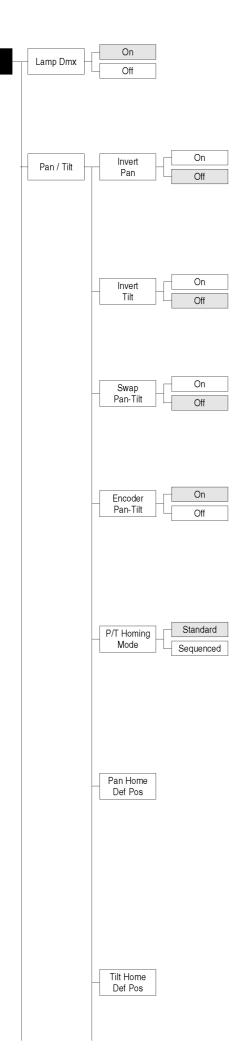
 keys to set the Universe address.
- 3) Press (to confirm the selection or LEFT (to keep the current setting.

Custom IP address

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

Custom IP mask

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



Option

OPTIONS MENU

LAMP DMX

Used for enabling lamp remote control channel.

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

Invert tilt

Used for reversing tilt movement.

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

Swap Pan-Tilt

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

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

P/T Homing Mode

Lets you set the initial projector Reset mode.

- 1) Press (x), the current setting appears on the display.
- Use the UP
 and DOWN keys to select one of the following settings:

Standard: Pan & Tilt are simultaneously reset.

Sequenced: Tilt is reset first followed by Pan.

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

Pan Home Def Pos

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

- 1) Press , the current setting appears on the display.
- 2) Use the UP
 and DOWN
 keys to select one of the following settings:

0 degree

90 degrees

180 degrees

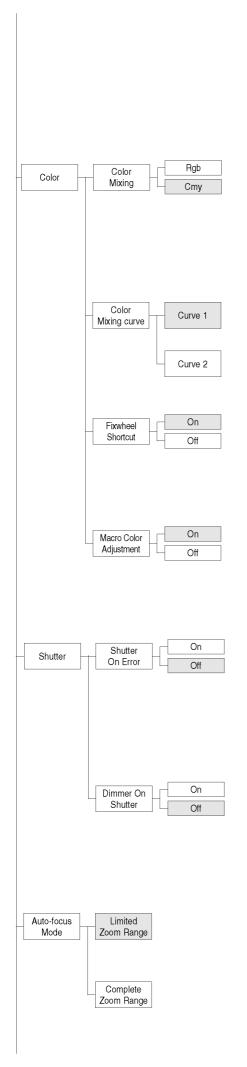
270 degrees (default)

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

Tilt Home Def Pos

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

- 1) Press (, the current setting appears on the display.
- 2) Use the UP (a) and DOWN (b) keys to select one of the following settings:



0% 12.5% 25% 50% (default) 75% 87.5% 100%

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

COLOR

Color mixing

Used for reversing the CMY color mixing system.

- 1) Press (the current settings appear on the display (On or Off).
- Use the UP
 and DOWN
 keys select one of the following settings:

RGB color mixing mode 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 the current setting appears on the display.
- 2) Use the UP
 and DOWN
 keys to select one of the following settings:
 Curve 1

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.

Macro color adjustment

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

Press on the current setting appears on the display.

- 1) Use the UP
 and DOWN
 keys to enable (On) or disable (Off) the overwriting.
- 2) Press (x) to confirm the selection or LEFT (1) to keep the current setting.

SHUTTER

Shutter on error

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

- 1) Press (the current settings appear on the display (On or Off).
- 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.
- Press to confirm the selection, or LEFT to keep current settings.

Dimmer on Shutter

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

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

AUTO-FOCUS MODE

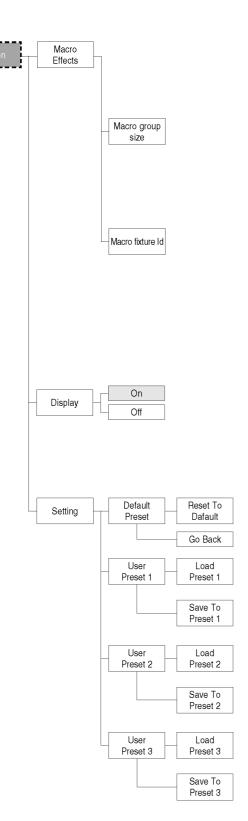
It lets you select the "Auto-focus Mode" from the two available.

- 1) Press (the current setting appears on the display.
- Use the UP
 and DOWN
 keys to select one of the following settings:

Limited Zoom Range: The "Autofocus" works only in the optical run that was specifically designed for the projector in question.

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

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



MACRO EFFECTS

It lets you select the "Macro Effects" set up from the two available.

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

Macro group size

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

- 1) Press 🕟
- Use the UP ♠, DOWN ♠, RIGHT keys to set the number of projectors to be included in the "Macro Effect" operation.
- 3) Press (x) to confirm the selection or LEFT (1) to keep the current setting.

Macro fixture Id

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

- 1) Press (ok)
- 2) Use the UP ♠ and DOWN ♥ keys to select one of the following settings: Fixed to X. (to assign to all the projectors to be included in the Macro operation). Auto by DMX Address: According to the DMX address, it automatically detects the starting sequence of the scene in the Macro mode (to assign to all the projectors to be included in the Macro operation).
- 3) Press (x) to confirm the selection or LEFT (1) to keep the current setting.

DISPLAY

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

- 1) Press (x) the current settings appear on the display (On or Off).
- 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.
- 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.
- Select YES to confirm the selection or NO to keep the current setting and return to the next higher level.
- (*) DEFAULT PRESET

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

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

1) Press (a), a confirmation message (Are you sure?) appears on the display.

2) Select YES to confirm the selction or NO to keep current setting.

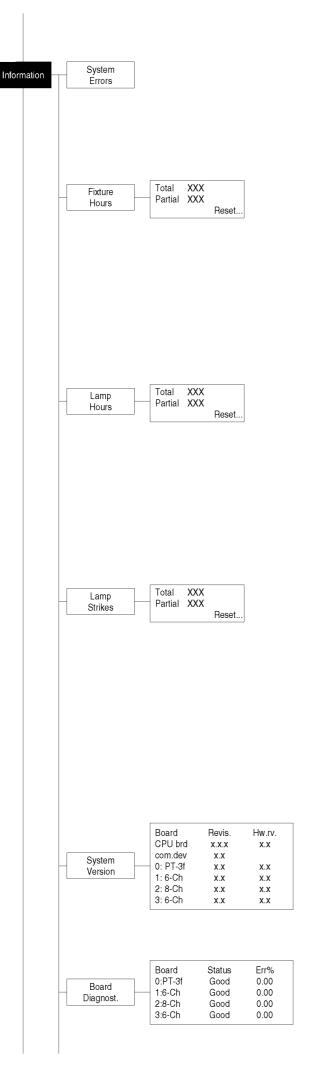
OPTION **DEFAULT** Lamp DMX On Invert Pan Off Invert Tilt Off Swap Pan-Tilt Off Encoder Pan-Tilt On P/T Homing Mode Standard Pan Home Def Pos 270 degrees Tilt Home Def Pos 50% CMY Color mixina Color mixing curve Curve 2 Fixed Wheel Shortcut On Macro Color Adjustment On Off Shutter on error

Auto-focus mode Limited zoom range

Off

Display On

Dimmer on Shutter



INFORMATION MENU

SYSTEM ERRORS

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

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

SYSTEM VERSION

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

CPU brd (CPU board)

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

1: 6-Ch (6 channel board)

2: 8-Ch (8 channel board)

3: 6-Ch (6 channel board)

BOARD DIAGNOSTIC

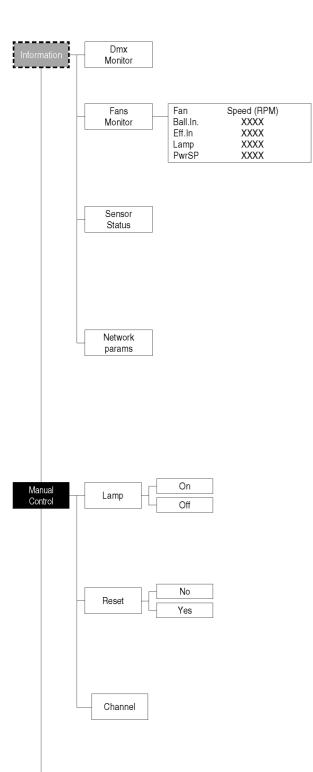
Used for displaying the status error of each board installed in the projector:

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

1: 6-Ch (6 channel board)

2: 8-Ch (8 channel board)

3: 6-Ch (6 channel board)



Pan-Tilt Colour Beam Gobo All

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)

PwrSp (Power Supply Fan)

SENSOR STATUS

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

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

NETWORK PARAMS

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

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

IP mask: 255.0.0.0

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

MANUAL CONTROL

LAMP

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

- 1) Press 🕟 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.

- 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 (ok) the first channel appears on the display.
- 2) Use the UP $igodia{}$ and DOWN $igodia{}$ 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

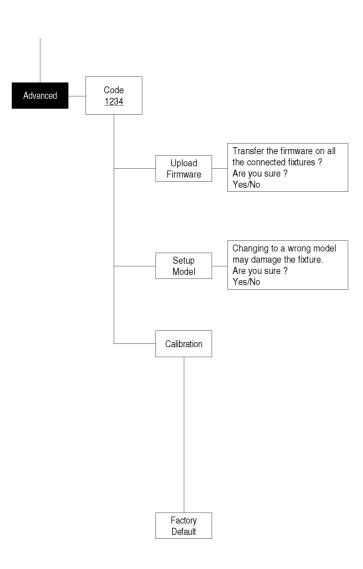
TEST

Allows you to check the proper functioning of effects.

- 1) Press or 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 (CMY, colour wheel / CTO)
- Beam effects (Stopper-Strobe / Dimmer / Iris / Prism / Frost / Focus / Zoom / Animation Disk)
- Gobo effects (Fixed gobo / Rotating gobo)
- All effects



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 on 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.

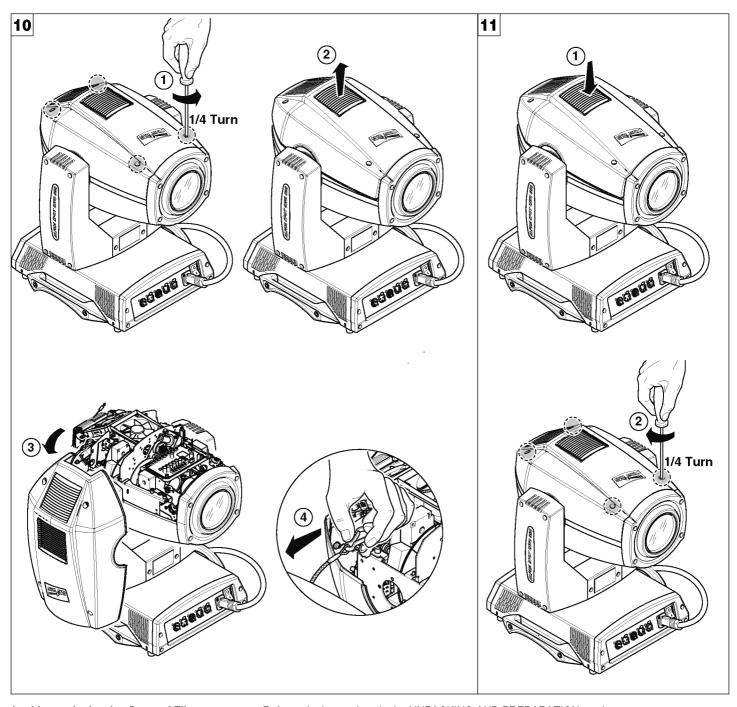
- 1) Press 🕟 "channels" appears on the display.
- 2) Using the UP
 and DOWN
 keys, select the effect you wish to regulate.
- 3) Press ♠ and use the RIGHT ♠, UP ♠ and DOWN ๗ buttons to make the adjustment by setting a value between 0 and 255.
- 4) Press to confirm the selection or LEFT to keep current settings and return to the top level.

FACTORY DEFAULT

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

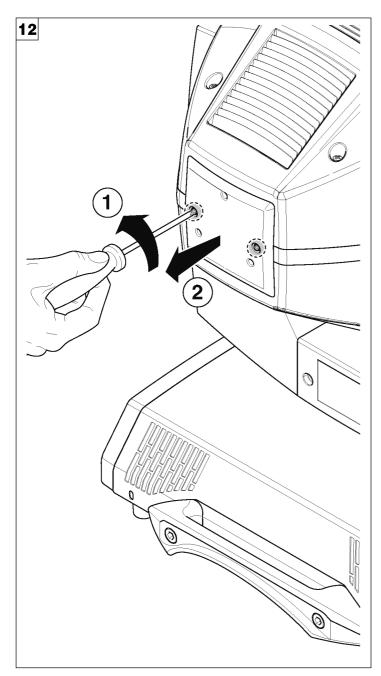
- 1) Press 🕟 a confirmation message appears on the display (Reset calibration to factory default ?).
- 2) Select YES to reset calibration to factory default or NO to keep the current setting and return to the top menu level.

MAINTENANCE

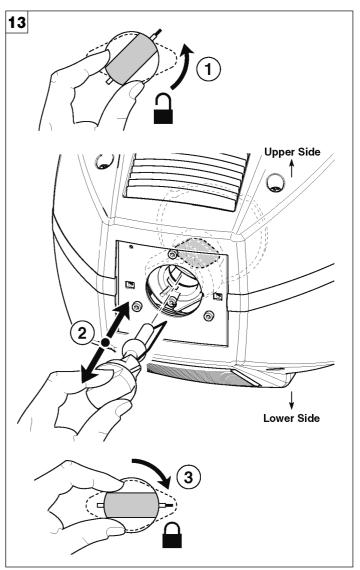


Locking and releasing Pan and Tilt movements - Refer to the instructions in the UNPACKING AND PREPARATION section. **Opening the head covers** - Fig. 10.

Closing the head covers - Fig. 11.



Opening and closing lamp compartment - Fig. 12



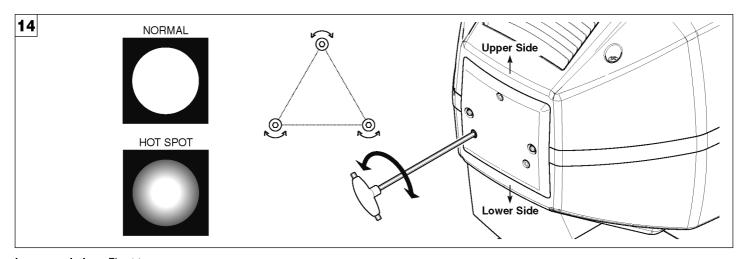
Lamp change - Fig 13

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.

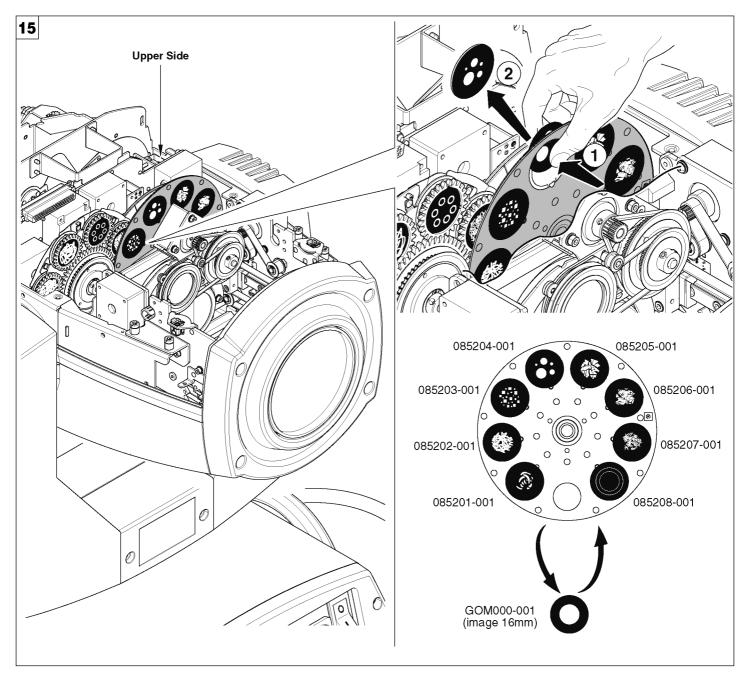
CAUTION:

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



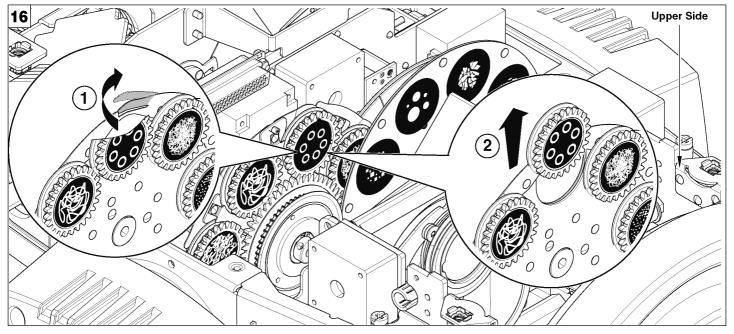
Lamp regulation - Fig. 14

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

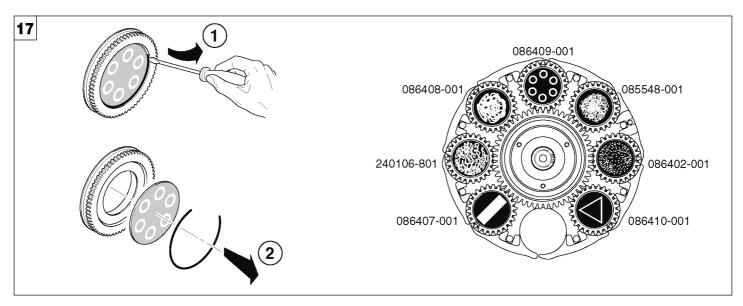


Replacing fixed gobos (ø 31.5 mm – max 19 mm image – thickness max 1.1 mm) - Fig. 15 WARNING: Before using personalised gobos contact Clay Paky.

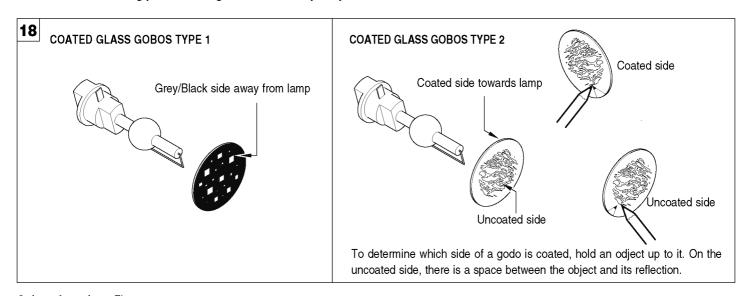
GOM000-001 is the standard Clay Paky package supply for customers who need to make the projected beam uniform, partially reducing the beam itself. This gobo is interchangeable with any other "fixed gobo wheel" gobo.



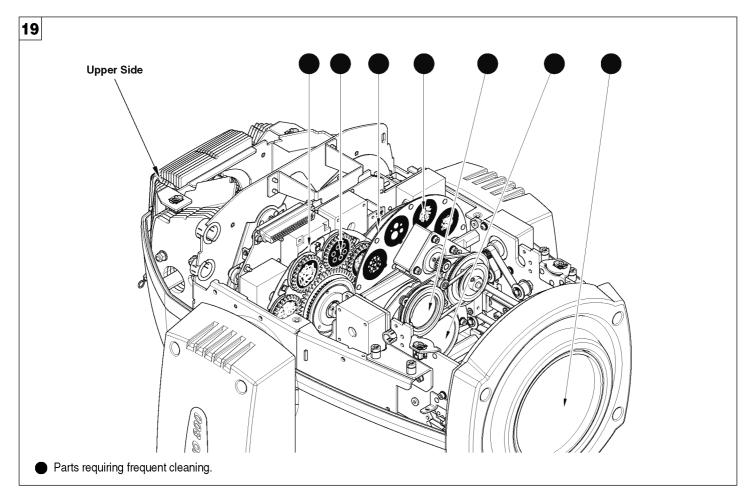
Bearing group replacement - Fig. 16



Replacing rotating gobos (ø 25.7 mm - max 19 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
The pictures shown the correct gobos orientation.

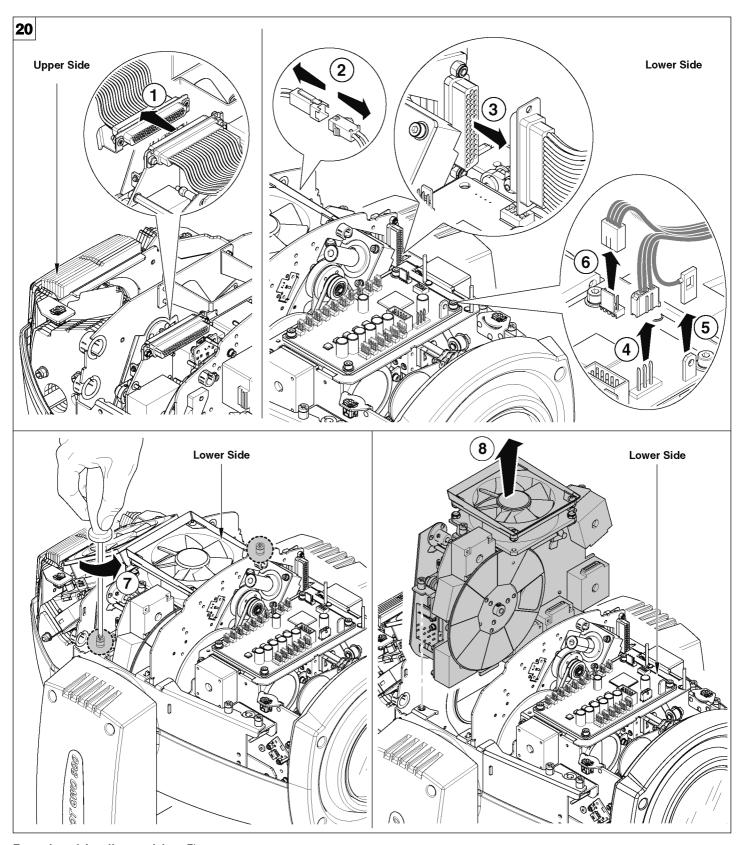


Periodical cleaning - Fig. 19

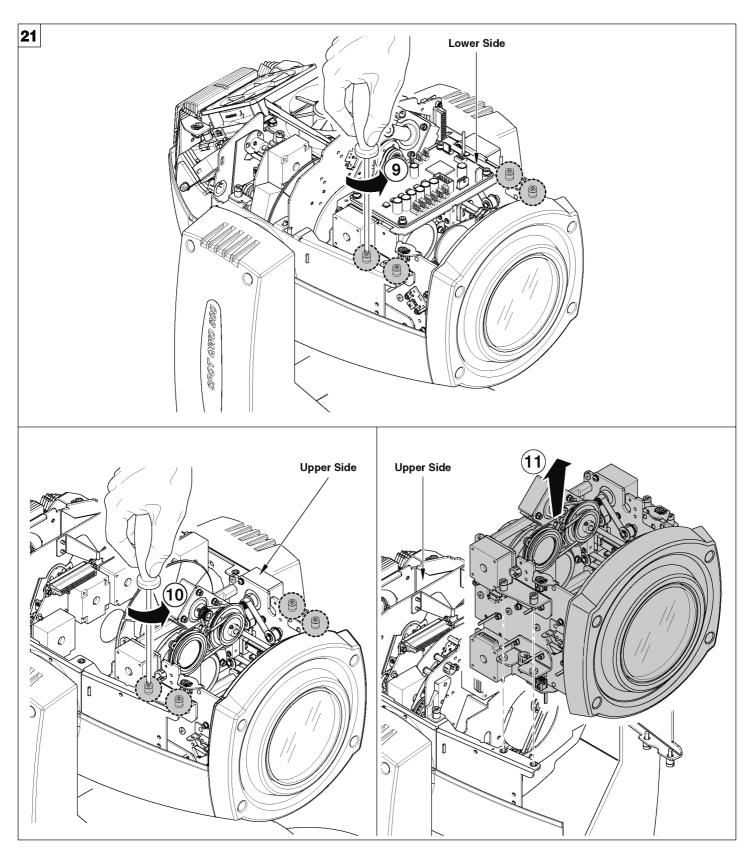
To ensure optimal operation and performance for a long time it is essential to periodically clean the parts subject to dust and grease deposits. The frequency with which the following operations are to be carried out depends on various factors, such as the amount of the effects and the quality of the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



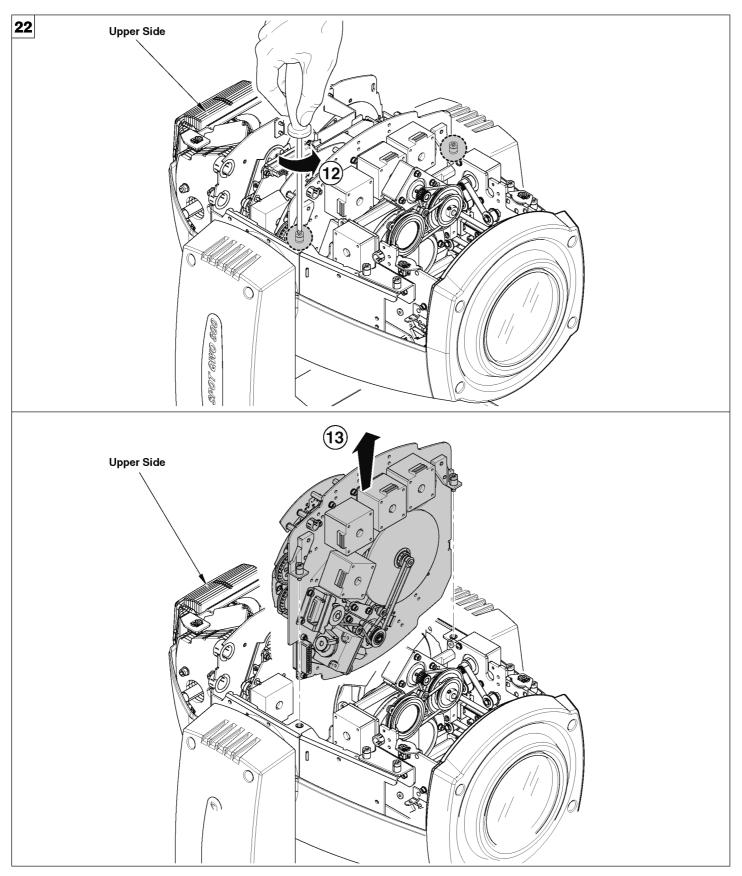
Extraction of the effect modules - Fig. 20 IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged. Insertion of the effect modules: Repeat the operations indicated in Fig. 20, 21 and 22 in reverse order.



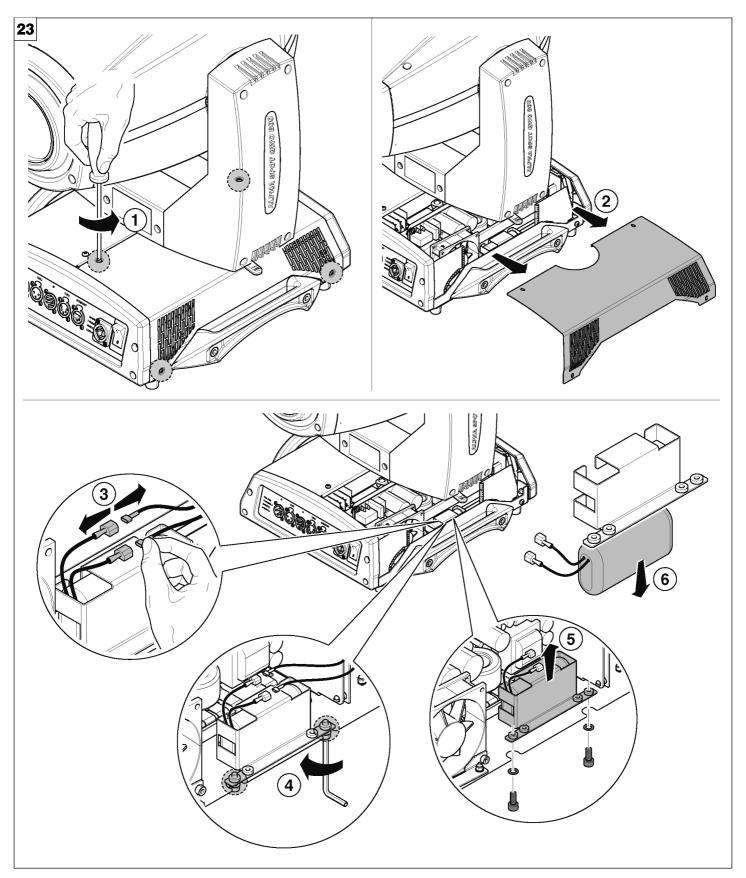
Extraction of the effect modules - Fig. 21

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.

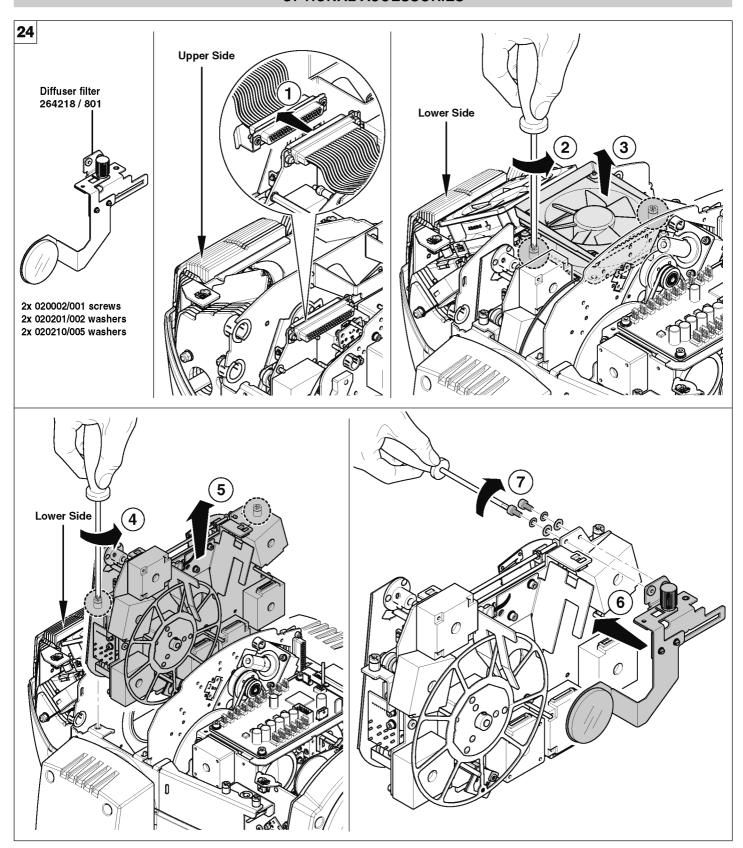


Battery removal - Fig. 23



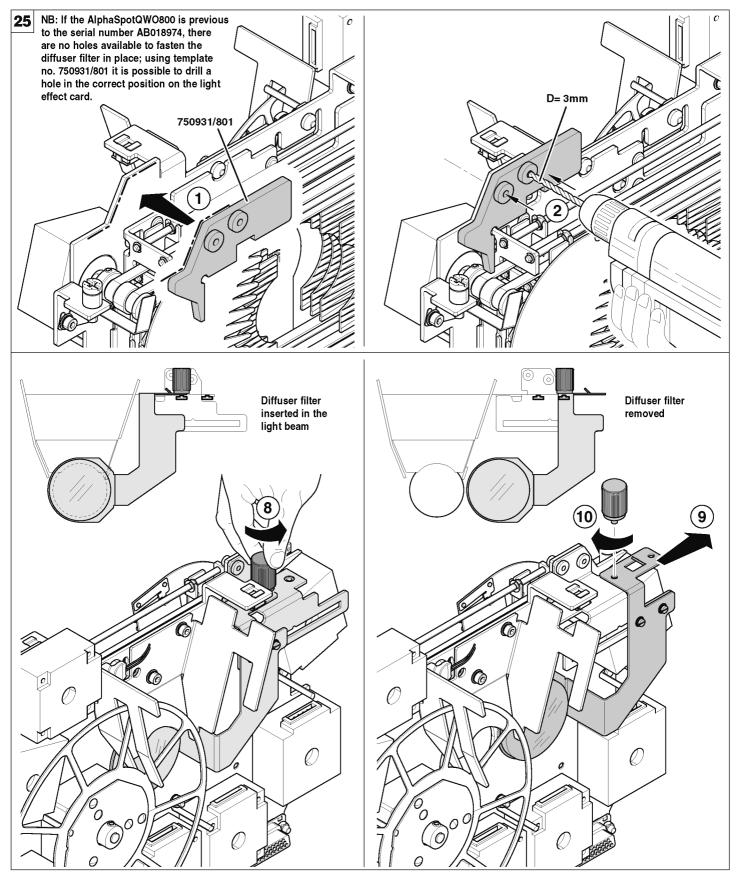
This product contains a rechargeable lithium iron tetraphosphate battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

OPTIONAL ACCESSORIES



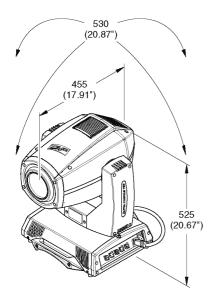
Assembling the diffuser filter - Fig. 24

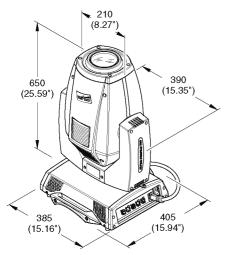
The diffuser filter inserted in the light beam, improves the CMY – CTO and Dimmer projection mix; the light beam itself, with the diffuser filter inserted, loses about 25% of its luminosity.



Assembling the diffuser filter - Fig. 25

The diffuser filter inserted in the light beam improves the CMY – CTO and Dimmer projection mix; the light beam itself, with the diffuser filter inserted, loses about 25% of its luminosity.





TECHNICAL INFORMATION

Power supplies available

100-120V 50/60Hz 200-240V 50/60Hz

Input power

1200VA a 230V 50Hz.

Total output

Spot QWO 800 & ST: Max 14.500 lumens.

Lamp:

Discharge lamp.

Type MSR Platinum 35 (L10105)

- Cap PGJX36
- Colour temperature 7750 K
- Luminous flux 54500 lm
- Average life 1000 h
- Any working position

Motors

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

Optical unit

Elliptic reflector with high luminous efficiency

Channels

Max 36 control channels.

Inputs

- DMX 512
- Ethernet

Moving head:

- Movement by means of two stepper motors, controlled by microprocessor.
- Automatic repositioning of PAN and TILT after accidental movement not controlled by control unit.
- Angle:
- PAN = 540°
- TILT = 240°
- Maximum speeds:
- PAN = 4.78 sec
- TILT = 2.33 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.

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.

Bodv

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

Working position

Working in any position.

Weight

about 30 Kg (66lbs).

CAUSE AND SOLUTION OF PROBLEMS

	TH	ΕP	ROJ	ECTOR WILL NOT SWITCH ON				
		Εl	EC1	RONICS NON-OPERATIONAL	BDOB! FMC			
			DE	FECTIVE PROJECTION		PROBLEMS		
				REDUCED LUMINOSITY				
				POSSIBLE CAUSES	CHECKS AND REMEDIES			
•				No mains supply.	Check the power supply voltage.			
			•	Lamp exhausted or defective.	Replace the lamp. (See instructions).			
	•			Signal transmission cable faulty or disconnected.	Replace the cables.			
	•			Incorrect addressing.	Check addresses (see instructions).			
	•			Fault in the electronic circuits.	Call an authorised technician.			
		•		Lenses or reflector broken	Call an authorised technician.			
		•	•	Dust or grease deposited.	Clean (see instructions).			

CHANNEL FUNCTION

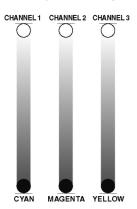
ALPHA SPOT QWO 800 & "ST"

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

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

• COLOUR MIXING - channel 1 - 2 - 3

Operation with option color mixing: RGB



BIT	EFFECT
ВП	EFFECT
255	COLOUR EXCLUDED
0	COLOUR INSERTED

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

Operation with option color mixing: CMY



BIT	EFFECT
255	COLOUR INSERTED
0	COLOUR EXCLUDED

IMPORTANT: The lamp dim to half power 1 second after all the 3 channels stay at 255 bit level. The lamp goes back to full power when the channels level is put lower than 255 bit.

• C.T.O. - channel 4



BIT	EFFECT
255	CTO INSERTED
- 1	
0	CTO EXCLUDED

• COLOUR WHEEL - channel 5



EFFECT

BIT

• MACRO COLOURS - channel 6

MANSED MANSE 19-25	COLOR NAME	BIT	ROSCO	LEE CODE	CYAN BIT	MAGENTA BIT	YELLOW BIT	CTO BIT	WHEEL BIT
LIGHTER BLUE 144-145 353 353 226 30 149 318 0 0 0 0 0 0 0 0 0	UNUSED RANGE	148-255			-	-	-	-	-
GAMORIA BLUE									
BISCHAP 140-141 346									
MALLAPORENEN 193-930 326									
SECTORANSE 134-555 295 295 296 296 296 297 297 54 297 298									
SIGNE 192-193 291	JADE	136-137	323	323	127	0	162	0	77
MALE NUMBOREEN		134-135	285	285	0	36	61	217	0
MINISPEEN 129-129 247									
INCITO									
12-100 12-125 265 265 265 266 265 266 265 266 265 266									
MACHE 120-121	1/2 CTO	124-125	205	205	25	26	45	131	0
12.0 16.1	FULL CT ORANGE	122-123	204	204	0	44	58	234	0
Facility Facility									
ALCE BLUE									'
COMPONE NUMBER 112-113									
CHROME ORANGE LAGOON BLUE 106-107 172 172 172 172 172 174 175 176 177 170 170 170 170 170 170									'
ACCON BLUE 106-107 172 172 172 124 10 121 40 77 120 00 120 77 120 00 120 77 120 00 120 170 170 170 100 120 77 120 00 00 120 170 170 00 120 170 170 00 120 170 170 00 00 120 170 170 00 00 120 170 00 00 00 00 00 00									
DEEP LAVENDER	CHROME ORANGE	108-109	179	179	0	98	255	255	0
LILLAC TINT 102-103 169 169 41 69 38 120 0 DAYLGHT BLUE 100-101 165 165 210 73 105 88 0 CALMARED 96-98 164 104 25 227 255 97 BASTARD AMBER 96-97 162 159 10 159 0 199 0 10 100 255 255 0 0 100 255 0 0 255 0 0 255 0 0 255 0 255 0 255 0 255 0 255 0 255 0 255 0 255 0 255 0 255 0 255 0 255 0 255 0 255 0 255 0 0 255 0 255 0 255 0 0 257 10 272 10 255 0 255<	LAGOON BLUE	106-107	172	172	224	0	121	40	79
DAYLIGHT BLUE 100-101 165 166 210 273 165 88 80 1 1 1 1 1 1 1 1 1									
FLAME RED									
BASTARD AMBER 96-97 162 162 162 162 163 164 159 165									
PINK									
PALE ROSE 90-91 154 154 154 0 48 0 189 180 190 PALE GOLD 88-89 152 152 0 0 0 0 98 138 0 PALE GOLD 88-89 152 152 0 0 0 0 98 138 0 PALE GOLD 88-89 148 148 0 255 0 PAPERIGHT ROSE 86-87 148 148 0 255 0 PAPERIGHT ROSE 86-87 148 148 149 0 81 55 255 0 PAPERICOT 84-85 147 147 0 81 55 255 0 PRIMARY GREEN 80-81 139 139 0 0 0 0 255 0 PRIMARY GREEN 76-77 138 138 138 105 0 179 100 0 PAPELE LAVENDER 74-75 137 137 97 105 72 90 0 PAPELE LAVENDER 74-75 137 137 97 105 72 90 0 PALE LAVENDER 70-71 136 136 0 152 127 0 0 PALE LAVENDER 70-71 136 136 0 142 234 110 0 PALE LAVENDER 66-67 132 132 132 152 152 127 0 77 PALE GREEN 60-64 131 131 60 0 168 73 77 PRIMARY GREEN 60-64 131 131 60 0 168 73 77 PRIMARINE BLUE 60-67 132 122 173 0 255 0 255 74 PRIMARINE BLUE 60-64 131 131 60 0 160 73 77 PRIMARINE BLUE 60-65 120 120 255 220 58 120 255 74 PRIMARINE BLUE 60-67 121 121 138 0 251 130 0 255 74 PRIMARINE BLUE 50-51 118 118 245 0 141 165 0 0 PERFORMEREN 50-67 121 121 138 0 241 144 0 0 PERFORMEN 50-67 121 121 138 0 241 144 0 0 PERFORMEN 40-48 117 117 167 0 141 165 0 0 PERFORMEN 40-48 117 117 117 117 117 117 117 117 117 117 117 117 117 117 118 0 0 0 0 0 0 0 PROMOBUS BLUE 40-48 117 117 117 118 138 0 0 0 0 0 0 0 0 0									
PALE GOLD	PINK	92-93	157	157	0	159	0	255	0
BRIGHT BOSE 86-87 148 148 0 255 0 255 0 0 APRICOT 84-85 147 147 147 0 81 55 255 0 0 BRIGHT BLUE 82-83 141 141 182 0 99 92 77 PRIMARY GREN 80-81 139 139 0 0 0 0 231 58 0 0 0 0 231 58 0 0 0 0 0 0 0 0 0	PALE ROSE	90-91	154	154	0	48	0	189	0
APRICOT BULE 82-83 141 141 141 192 0 99 92 77 PRIMARY GREEN 80-81 139 139 0 0 0 0 0 231 77 PRIMARY GREEN 78-79 121 121 10 0 0 0 255 0 77 PALE GREEN 76-77 138 138 108 105 0 179 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
BRIGHT BLUE 82-83 141 141 182 0 99 92 77 7 7 7 7 7 7 7 7									
PRIMARY GREEN 80-81 139 139 130 0 0 0 0 255 0 77 PALE GREEN 76-77 138 138 105 0 105 72 30 0 PALE GREEN 74-75 138 138 105 72 30 0 0 PALE LAVENDER 74-75 138 138 105 72 30 0 PALE LAVENDER 72-73 136 138 73 102 44 120 0 PALE LAVENDER 70-71 135 135 30 255 255 255 0 GOLDEN AMBER 69-69 134 134 0 142 234 110 0 MEDUM MULU 69-67 132 132 255 152 127 0 77 MARINE BLUE 64-65 131 131 60 0 106 73 77 MARINE BLUE 64-65 131 131 60 0 255 0 197 0 MAUVE 60-61 126 126 0 255 0 197 0 MAUVE 60-61 126 126 0 255 0 197 0 MAUVE 59-69 122 122 173 0 255 39 0 LEAF GREEN 59-59 122 121 138 0 255 39 0 LEAF GREEN 59-57 121 121 138 0 241 0 0 0 LEAF GREEN 59-51 118 118 245 0 146 138 0 STEEL BLUE 49-49 117 117 167 0 141 165 0 MEDUM BLUE GREEN 49-49 117 117 167 0 141 165 0 MEDUM BLUE GREEN 49-47 116 116 119 0 125 139 0 220 0 MEDUM BLUE GREEN 49-47 116 116 119 0 125 139 0 220 0 MEDUM BLUE GREEN 49-47 116 116 119 0 120 127 0 220 0 DARK PINK 42-43 111 111 10 10 10 20 220 0 DARK PINK 42-43 111 111 10 10 10 220 0 DARK PINK 42-43 111 111 10 10 10 220 0 DEMANGE HOSE 39-39 107 107 0 0 121 59 200 0 DEMANGE HOSE 39-30 107 107 0 0 0 220 0 DEMANGE HOSE 39-30 107 107 0 0 0 220 0 DEMANGE HOSE 39-30 107 100 0 0 0 0 220 0 DELEY AUBER 30-31 104 104 104 0 0 0 255 204 0 DELEY AUBER 30-31 107 107 0 0 0 0 0 0 0 DELEY AUBER 30-31 104 104 104 0 0 0 0 0 0 DELEY AUBER 30-31 107 107 0 0 0 0 0 0 0 DELEY BLUE 10-11 0									
LIGHT GREEN 78-79 121 121 0 0 0 255 0 0 77 PALE GREEN 76-77 138 138 105 0 179 100 0 0 SPECIAL LAVENDER 74-75 137 137 97 105 72 90 0 PALE LAVENDER 72-73 136 136 73 102 44 120 0 DEEP GOLDEN AMBER 70-71 135 136 136 0 255 255 255 0 0 DEEP GOLDEN AMBER 88-89 134 134 0 142 234 110 0 77 GOLDEN AMBER 88-89 134 134 0 142 234 110 0 77 MACHINE BLUE 86-67 132 132 255 152 127 0 77 MARINE BLUE 86-67 132 132 255 152 127 0 77 BRIGHT PINK 62-63 131 131 60 0 168 73 77 BRIGHT PINK 62-63 128 128 0 255 0 197 0 0 MAUVE 80-61 126 126 126 0 255 0 197 0 0 MAUVE 80-61 126 126 126 0 255 0 197 0 0 MAUVE 80-657 121 121 138 0 255 14 64 0 0 DEEP BLUE \$4-55 120 120 255 29 58 0 0 DEEP BLUE \$5-57 121 121 138 0 241 64 0 0 DEEP BLUE \$5-55 120 120 255 229 58 128 77 DARK BLUE \$52-53 119 119 255 161 0 0 77 DARK BLUE \$52-53 119 119 255 161 0 0 0 77 LIGHT BLUE \$5-51 118 118 245 0 145 128 0 77 DARK BLUE GREEN 48-49 117 117 167 0 141 165 0 0 MEDIUM BLUE GREEN 48-49 117 117 167 0 141 165 0 0 DARK BLUE GREEN 48-49 117 117 167 0 141 165 0 0 DARK BLUE GREEN 48-49 117 117 167 0 128 91 77 PEACOCK BLUE 44-45 115 115 115 136 0 128 91 77 DARK BLUE GREEN 48-47 116 116 118 189 0 157 91 77 PEACOCK BLUE 44-45 115 115 115 136 0 122 20 0 0 DARK BLUE GREEN 38-39 108 109 50 121 58 20 0 0 DARK BLUE GREEN 48-47 116 116 118 189 0 122 20 0 0 PRIMARY RED 34-35 106 132 0 0 0 0 0 2 20 0 0 PRIMARY RED 34-35 106 132 0 0 0 0 0 2 20 0 0 PRIMARY RED 34-35 106 132 0 0 0 0 0 2 20 0 0 PRIMARY RED 34-35 106 105 105 0 122 255 149 0 0 0 PRIMARY RED 42-23 100 100 90 0 225 149 0 0 0 PRIMARY RED 42-23 100 100 90 0 0 227 177 0 0 DEEP AMBER 30-31 104 104 0 28 177 104 176 0 0 DEEP AMBER 30-31 104 104 0 28 177 104 176 0 0 DEEP AMBER 30-31 104 104 0 28 177 104 176 0 0 DEEP AMBER 30-31 104 104 0 0 28 177 104 177 0 0 DARK PLUW 24-25 101 101 101 0 0 0 0 277 177 0 0 DARK PLUW 34-25 101 101 101 0 0 0 0 277 177 0 0 DARK PLUW 34-25 101 101 101 0 0 0 0 0 0 0 0 0 0 0 0 0									
SPECIAL LAVENDER 74-75 137 137 197 105 72 90 0 PALE LAVENDER 72-73 136 136 136 173 102 44 120 0 DEEP GOLDEN AMBER 70-71 135 135 0 255 255 255 0 GOLDEN AMBER 88-89 134 134 0 142 234 110 0 MEDIUM BIUE 66-67 132 138 255 152 127 0 77 MARINE BLUE 64-65 131 131 60 0 106 73 77 BRIGHT PINK 62-63 128 128 0 255 0 197 0 255 74 75 MAUVE 60-61 126 128 0 255 229 68 128 77 LEAF GREEN 56-57 121 121 121 136 0 241 64 0									
PALE LAVENDER 72-73	PALE GREEN	76-77	138	138	105	0	179	100	0
DEEP GOLDEN AMBER 70-71	SPECIAL LAVENDER	74-75	137	137	97	105	72	90	0
GOLDEN AMBER 68-89 134 134 0 142 234 110 0 0 MEDIUM BLUE 66-67 132 132 255 152 127 0 77 77 MARINE BLUE 64-65 131 131 80 0 106 73 77 5 5 5 5 5 5 5 5									
MEDIUM BLUE 66-67 132 132 255 152 127 0 77									
MARINE BLUE 64-65 131 131 600 0 106 73 77 BRIGHT PINK 62-63 128 128 0 255 0 197 0 MALVE 66-61 126 126 0 255 0 255 74 FERN GREEN 58-59 122 122 173 0 255 99 0 LEAF GREEN 58-59 122 122 173 0 255 99 0 LEAF GREEN 58-57 121 121 136 0 241 64 0 DEEP BLUE 54-55 120 120 255 229 68 128 77 DARK BLUE 52-53 119 119 255 161 0 0 77 LIGHT BLUE 50-51 118 118 245 0 145 138 0 STEEL BLUE 48-49 117 117 116 0 141 165 0 MEDIUM BLUE GREEN 46-47 116 116 118 189 0 157 91 77 DARK PLUC 44-45 115 115 115 136 0 128 91 77 DARK PINK 42-43 111 111 0 139 0 220 0 ENGLISH ROSE 38-39 108 108 0 62 0 247 0 LIGHT BOSE 38-37 107 107 0 95 0 220 0 PRIMARY RED 34-35 106 182 0 0 0 0 20 PRANGE 32-33 105 105 0 182 255 149 0 DRANGE 32-33 100 100 80 0 227 157 0 DARK PILOW 22-23 100 100 80 0 227 157 0 DARK PILOW 22-23 100 100 80 0 255 149 0 DARK PILOW 22-23 100 100 80 0 255 149 0 DARK PILOW 14-15 79 79 255 77 0 204 0 LIGHT AMBER 26-27 102 102 0 0 171 193 0 DARK PILOW 22-23 100 100 80 0 255 149 0 DARK PILOW 22-23 100 100 80 0 255 149 0 DARK PILOW 22-23 100 100 80 0 255 149 0 DARK PILOW 22-23 100 100 80 0 255 149 0 DARK PILOW 22-23 100 100 80 0 255 0 250 0 DARK PILOW 22-23 100 100 80 0 255 0 250 0 DARK PILOW 22-23 100 100 80 0 255 0 250 0 DARK PILOW 22-23 100 100 80 0 255 0 255 149 0 DARK PILOW 22-23 100 100 80 0 255 0 255 149 0 DARK PILOW 22-23 100 100 80 0 255 0 255 149 0 DARK PILOW 22-23 100 100 80 0 255 0 255 149 0 DARK PILOW 32-25 11 110 110 0 0 255 140 0 LIGHT FRED 6-7 026 026 0 255 0 255 211 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 0 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 0									
MALIVE 60-61 126 126 0 255 0 255 74 FERN GREEN 58-59 122 122 173 0 235 89 0 LEAF GREEN 56-57 121 121 121 136 0 241 64 0 DEEP BLUE 56-56 120 120 255 229 58 128 77 DARK BLUE 52-53 119 119 255 161 0 0 77 STEEL BLUE 48-49 117 117 167 0 141 165 0 MEDIUM BLUE GREEN 46-47 116 116 118 189 0 157 91 77 PACOCK BLUE 44-45 115 115 136 0 128 91 77 PACOCK BLUE 44-45 115 115 138 0 128 91 77 DARK PINK 42-43 111									
FERN GREEN	BRIGHT PINK	62-63	128	128	0	255	0	197	0
LEAF GREEN 56-57 121 121 121 136 0 241 64 0 DEEP BLUE 54-55 120 120 255 229 58 128 77 DARK BLUE 52-53 119 119 255 161 0 0 77 LIGHT BLUE 50-51 118 118 245 0 145 138 0 STEEL BLUE 48-49 117 117 167 0 141 165 0 MEDIUM BLUE GREEN 46-47 118 116 189 0 157 91 77 PACOCK BLUE 44-45 115 115 136 0 128 91 77 DARK PINK 42-43 111 111 0 139 0 220 0 LIGHT SALMON 40-41 109 109 50 121 58 230 0 ENGLISH ROSE 36-37 107 107 <td>MAUVE</td> <td>60-61</td> <td>126</td> <td>126</td> <td>0</td> <td>255</td> <td>0</td> <td>255</td> <td>74</td>	MAUVE	60-61	126	126	0	255	0	255	74
DEEP BLUE									
DARK BLUE									
LIGHT BLUE 50-51 118 118 245 0 145 138 0 STEEL BLUE 48-49 117 117 167 0 141 165 0 MEDIUM BLUE GREEN 46-47 116 116 189 0 157 91 77 PEACOCK BLUE 44-45 115 115 136 0 128 91 77 DARK PINK 42-43 111 111 0 139 0 20 0 120 0 LIGHT SALMON 40-41 109 109 50 121 58 230 0 10 ENGLISH ROSE 38-39 108 108 0 62 0 247 0 120 LIGHT ROSE 38-39 108 108 0 62 0 247 0 100 PRIMARY RED 34-35 106 182 0 0 0 0 0 0 20 PRIMARY RED 34-35 106 182 0 0 0 0 0 0 0 20 CRANGE 32-33 105 105 0 182 255 76 0 100 DEEP AMBER 30-31 104 104 0 26 139 233 0 100 STRAW 28-29 103 103 58 17 104 176 0 183 0 171 193 0 100 SPRING 24-25 101 101 0 0 255 149 0 100 SPRING YELLOW 22-23 100 100 80 0 227 157 0 100 DARK YELLOW 22-23 100 100 80 0 227 157 0 100 DARK YELLOW GREEN 18-19 88 88 118 0 241 124 0 100 JUST BLUE 16-17 79 79 79 255 77 64 173 0 100 ENGLY BLUE 10-11 063 068 125 156 77 0 100 DARK YBLUE 10-11 063 068 125 156 77 0 100 ENGLY BLUE 10-11 063 068 125 166 77 0 0 100 BRIGHT RED 6-7 026 026 0 255 0 255 21 MED YELLOW 4-5 010 010 48 0 239 115 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 00 RANGRO EFFECTS)									''
MEDIUM BLUE GREEN									
PEACOCK BLUE 44-45 115 115 136 0 128 91 77 DARK PINK 42-43 111 111 0 139 0 220 0 LIGHT SALMON 40-41 109 109 50 121 58 230 0 ENGLISH ROSE 38-39 108 108 0 62 0 247 0 LIGHT ROSE 38-37 107 107 0 95 0 220 0 PRIMARY RED 34-35 106 182 0 0 0 0 220 ORANGE 32-33 105 105 0 182 255 76 0 DEEP AMBER 30-31 104 104 0 28 189 223 0 STRAW 28-29 103 103 58 117 104 176 0 LIGHT AMBER 26-27 102 102 0 0									
DARK PINK	MEDIUM BLUE GREEN	46-47	116	116	189	0	157	91	77
LIGHT SALMON		44-45	115	115	136	0	128	91	77
ENGLISH ROSE 38-39 108 108 0 62 0 247 0 LIGHT ROSE 36-37 107 107 0 95 0 220 0 PRIMARY RED 34-35 106 182 0 0 0 0 0 220 0 ORANGE 32-33 105 105 105 0 182 255 76 0 DEEP AMBER 30-31 104 104 0 26 199 223 0 STRAW 28-29 103 103 58 17 104 176 0 LIGHT AMBER 26-27 102 102 0 0 171 193 0 YELLOW 24-25 101 101 0 0 0 255 149 0 SPRING YELLOW 22-23 100 100 80 0 227 157 0 DARK YELLOW GREEN 20-21 90 90 255 0 255 204 0 LIME GREEN 18-19 88 88 118 0 241 124 0 JUST BLUE 16-17 79 79 255 77 0 204 0 TOKYO BLUE 14-15 71 71 255 255 0 190 77 SKY BLUE 10-11 063 068 245 77 64 173 0 PALE BLUE 10-11 063 063 122 0 112 127 0 LAVENDER 8-9 058 058 165 186 77 0 0 DRIGHT RED 6-7 026 026 0 255 0 239 115 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 00 RANDOM MACRO COLOR (ONLY FOR MACRO EFFECTS)									
LIGHT ROSE 36-37 107 107 0 95 0 220 0 PRIMARY RED 34-35 106 182 0 0 0 0 20 ORANGE 32-33 105 105 0 182 255 76 0 DEEP AMBER 30-31 104 104 0 26 199 223 0 STRAW 28-29 103 103 58 17 104 176 0 LIGHT AMBER 26-27 102 102 0 0 171 193 0 SPRING YELLOW 24-25 101 101 0 0 255 149 0 SPRING YELLOW 22-23 100 100 80 0 227 157 0 DARK YELLOW GREEN 20-21 90 90 255 0 255 204 0 LIME GREEN 18-19 88 88 118 0 241 124 0 JUST BLUE 16-17 79 79 255 77 0 204 0 TOKYO BLUE 14-15 71 71 255 255 0 160 77 SKY BLUE 10-11 063 063 122 0 112 127 0 LAVENDER 8-9 058 068 165 186 77 0 0 BRIGHT RED 6-7 026 026 0 255 0 259 21 MED YELLOW 4-5 010 010 48 0 239 115 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 0									
PRIMARY RED 34-95 106 182 0 0 0 0 20 ORANGE 32-33 105 105 0 182 255 76 0 DEEP AMBER 30-31 104 104 0 26 199 223 0 STRAW 28-29 103 103 58 17 104 176 0 LIGHT AMBER 26-27 102 102 0 0 171 193 0 YELLOW 24-25 101 101 0 255 149 0 SPRING YELLOW 22-23 100 100 80 0 227 157 0 DARK YELLOW GREEN 20-21 90 90 255 0 255 204 0 LIME GREEN 18-19 88 88 118 0 241 124 0 JUST BLUE 16-17 79 79 255 77 0									
DEEP AMBER 30-31									
STRAW 28-29 103 103 58 17 104 176 0 LIGHT AMBER 26-27 102 102 0 0 171 193 0 YELLOW 24-25 101 101 0 0 255 149 0 SPRING YELLOW 22-23 100 100 80 0 227 157 0 DARKYELLOW GREEN 20-21 90 90 255 0 255 204 0 LIME GREEN 18-19 88 88 118 0 241 124 0 JUST BLUE 16-17 79 79 255 77 0 204 0 TOKYO BLUE 14-15 71 71 255 255 0 187 0 SKY BLUE 12-13 688 688 245 77 64 173 0 PALE BLUE 10-11 063 063 122 0	ORANGE	32-33	105	105	0	182	255	76	0
LIGHT AMBER 26-27 102 102 0 0 171 193 0 YELLOW 24-25 101 101 0 0 255 149 0 SPRING YELLOW 22-23 100 100 80 0 227 157 0 DARKYELLOW GREEN 20-21 90 90 255 0 255 204 0 LIME GREEN 18-19 88 88 118 0 241 124 0 JUST BLUE 16-17 79 79 255 77 0 204 0 TOKYO BLUE 14-15 71 71 255 255 0 180 77 SKY BLUE 12-13 088 068 245 77 64 173 0 PALE BLUE 10-11 063 063 122 0 112 12 0 LAVENDER 9-9 058 058 165 196	DEEP AMBER	30-31	104	104	0	26	199	223	0
YELLOW 24-25 101 101 0 0 255 149 0 SPRING YELLOW 22-23 100 100 80 0 227 157 0 DARK YELLOW GREEN 20-21 90 90 255 0 255 204 0 LIME GREEN 18-19 88 88 118 0 241 124 0 JUST BLUE 16-17 79 79 255 77 0 204 0 TOKYO BLUE 14-15 71 71 255 255 0 180 77 SKY BLUE 12-13 068 068 245 77 64 173 0 PALE BLUE 10-11 063 063 122 0 1127 0 LAVENDER 8-9 058 058 165 186 77 0 0 BRIGHT RED 6-7 026 026 0 255 0									
SPRING YELLOW 22-23 100 100 80 0 227 157 0 DARK YELLOW GREEN 20-21 90 90 255 0 255 204 0 LIME GREEN 18-19 88 88 118 0 241 124 0 JUST BLUE 16-17 79 79 255 77 0 204 0 TOKYO BLUE 14-15 71 71 255 255 0 180 77 SKY BLUE 12-13 068 068 245 77 64 173 0 PALE BLUE 10-11 063 063 122 0 112 127 0 LAVENDER 8-9 058 058 165 186 77 0 0 BRIGHT RED 6-7 026 026 0 255 0 255 21 MED BASTARD AMBER 2-3 004 004 0									
DARKYELLOW GREEN 20-21 90 90 255 0 255 204 0 LIME GREEN 18-19 88 88 118 0 241 124 0 JUST BLUE 16-17 79 79 255 77 0 204 0 TOKYO BLUE 14-15 71 71 255 255 0 180 77 SKY BLUE 12-13 068 068 245 77 64 173 0 PALE BLUE 10-11 063 063 122 0 112 127 0 LAVENDER 8-9 058 058 185 186 77 0 0 BRIGHT RED 6-7 026 026 0 255 0 255 21 MED YELLOW 4-5 010 010 48 0 239 115 0 RANDOM MACRO COLOR (CONLY FOR MACRO COLOR (CONLY FOR MACRO EFFECTS) 1 -									
LIME GREEN 18-19 88 88 118 0 241 124 0 JUST BLUE 16-17 79 79 255 77 0 204 0 TOKYO BLUE 14-15 71 71 255 255 0 180 77 SKY BLUE 12-13 068 068 245 77 64 173 0 PALE BLUE 10-11 063 063 122 0 112 127 0 LAVENDER 8-9 058 058 165 186 77 0 0 0 BRIGHT RED 6-7 026 026 0 255 0 255 21 MED YELLOW 4-5 010 010 48 0 239 115 0 MED BASTARD AMBER R-2-3 004 004 0 62 78 159 0 MACRO EFFECTS)									
TOKYO BLUE 14-15 71 71 255 255 0 180 77 SKY BLUE 12-13 068 068 245 77 64 173 0 PALE BLUE 10-11 063 063 122 0 112 127 0 LAVENDER 8-9 058 058 165 186 77 0 0 BRIGHT RED 6-7 026 026 0 255 0 255 21 MED YELLOW 4-5 010 010 48 0 239 115 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 0 RANDOM MACRO COLOR (ONLY FOR MACRO COLOR (COLFFECTS) 1 - <td< td=""><td></td><td></td><td>88</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			88						
SKY BLUE 12-13 068 068 245 77 64 173 0 PALE BLUE 10-11 063 063 122 0 112 127 0 LAVENDER 8-9 058 058 165 186 77 0 0 BRIGHT RED 6-7 026 026 0 255 0 255 21 MED YELLOW 4-5 010 010 48 0 239 115 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 0 RANDOM MACRO COLOR (ONLY FOR MACRO EFFECTS) 1 -	JUST BLUE	16-17	79	79	255	77	0	204	0
PALE BLUE 10-11 063 063 122 0 112 127 0 LAVENDER 8-9 058 058 165 186 77 0 0 0 BRIGHT RED 6-7 026 026 0 255 0 255 21 MED YELLOW 4-5 010 010 48 0 239 115 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 0 RANDOM MACRO COLOR (ONLY FOR MACRO EFFECTS)	TOKYO BLUE	14-15	71	71	255	255	0	180	77
LAVENDER 8-9 058 058 165 186 77 0 0 BRIGHT RED 6-7 026 026 0 255 0 255 21 MED YELLOW 4-5 010 010 48 0 238 115 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 0 RANDOM MACRO COLOR (ONLY FOR MACRO EFFECTS)									
BRIGHT RED 6-7 026 026 0 255 0 255 21 MED YELLOW 4-5 010 010 48 0 239 115 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 0 RANDOM MACRO COLOR (ONLY FOR MACRO EFFECTS) 1 -									
MED YELLOW 4-5 010 010 48 0 239 115 0 MED BASTARD AMBER 2-3 004 004 0 62 78 159 0 RANDOM MACRO COLOR (ONLY FOR MACRO EFFECTS) 1 - <									
MED BASTARD AMBER 2-3 004 004 0 62 78 159 0 RANDOM MACRO COLOR (ONLY FOR MACRO EFFECTS) 1 - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
(ONLY FOR 1 MACRO EFFECTS)									
MACRO EFFECTS)									
UNUSED RANGE 0		1	-	-	-	-	-	-	•
	UNUSED RANGE	0	<u> </u>			_	_		

• STOPPER / STROBE - channel 7



213 - 225 208 - 212 207 108 108 108 108 104 - 107 103 108 104 - 107 103 108 108 109 109 109 109 109 109 109 109 109 109		
239 - 251 RANDOM FAST STROBE 226 - 238 RANDOM MEDIUM STROBE 213 - 225 RANDOM STROBE 207 FAST PULSATION 108 104 - 107 103 SLOW PULSATION FAST STROBE (12 flash/sec) 4 SLOW STROBE (1 flash/sec)	BIT	EFFECT
226 - 238 213 - 225 RANDOM SLOW STROBE 208 - 212 00 - 212 00 - 212 108 108 104 - 107 109 108 104 - 107 FAST STROBE (12 flash/sec) 4 SLOW STROBE (1 flash/sec)	252 - 255	OPEN
213 - 225 208 - 212 207 108 108 104 - 107 103 \$LOW PULSATION OPEN FAST STROBE (12 flash/sec) 4 \$LOW STROBE (1 flash/sec)	239 - 251	RANDOM FAST STROBE
208 - 212 OPEN FAST PULSATION 108 SLOW PULSATION 104 - 107 OPEN FAST STROBE (12 flash/sec) 4 SLOW STROBE (1 flash/sec)	226 - 238	RANDOM MEDIUM STROBE
207 FAST PULSATION 108 104-107 109 OPEN 103 FAST STROBE (12 flash/sec) 4 SLOW STROBE (1 flash/sec)	213 - 225	RANDOM SLOW STROBE
108 SLOW PULSATION OPEN 103 FAST STROBE (12 flash/sec)		
104-107 OPEN 103 FAST STROBE (12 flash/sec) 4 SLOW STROBE (1 flash/sec)	207	FAST PULSATION
	104 - 107	OPEN FAST STROBE (12 flash/sec)
0-3 CLOSED	4	SLOW STROBE (1 flash/sec)
	0 - 3	CLOSED

• DIMMER - channel 8



BIT	EFFECT
255	
0	

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

• DIMMER FINE - channel 9



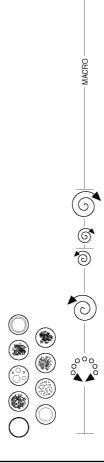
BIT	EFFECT
255	
0	

• IRIS - channel 10



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

• STATIC GOBO CHANGE - channel 11



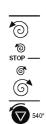
BIT	EFFECT
255	GOBO 8 SHAKE, FAST SPEED
244 243	GOBO 8 SHAKE, SLOW SPEED GOBO 7 SHAKE, FAST SPEED
232 231	GOBO 7 SHAKE, SLOW SPEED GOBO 6 SHAKE, FAST SPEED
220 219	GOBO 6 SHAKE, SLOW SPEED GOBO 5 SHAKE, FAST SPEED
208 207	GOBO 5 SHAKE, SLOW SPEED GOBO 4 SHAKE, FAST SPEED
196 195 !	GOBO 4 SHAKE, SLOW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

• ROTATING GOBO CHANGE - channel 12



BIT	EFFECT
255	GOBO 7 SHAKE, FAST SPEED
238 237	GOBO 7 SHAKE, SLOW SPEED GOBO 6 SHAKE, FAST SPEED
220 219	GOBO 6 SHAKE, SLOW SPEED GOBO 5 SHAKE, FAST SPEED
202 201	GOBO 5 SHAKE, SLOW SPEED GOBO 4 SHAKE, FAST SPEED
184 183	GOBO 4 SHAKE, SLOW SPEED GOBO 3 SHAKE, FAST SPEED
166 165	GOBO 3 SHAKE, SLOW SPEED GOBO 2 SHAKE, FAST SPEED
148 147	GOBO 2 SHAKE, SLOW SPEED GOBO 1 SHAKE, FAST SPEED
130	GOBO 1 SHAKE, SLOW SPEED
114-129	GOBO 7
98-113	GOBO 6
82-97	GOBO 5
65-81	GOBO 4
49-64	GOBO 3
33-48	GOBO 2
17-32	GOBO 1
0-16	WHITE

• GOBO ROTATION - channel 13



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

BIT

127

• FROST - channel 17



BIT	EFFECT
265	EFFECT FROST INSERTED
0	FROST EXCLUDED

• GOBO FINE - channel 14











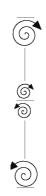
• ANIMATION DISK INSERTION - channel 18

BIT	EFFECT
255	DISK INSERTED
ó	DISK EXCLUDED

• PRISM INSERTION - channel 15

BIT	EFFECT
255	PRISM INSERTED
128 127	
0	PRISM EXCLUDED

• ANIMATION DISK ROTATION - channel 19



BIT	EFFECT
255	FAST ROTATION (120 rpm)
131 125 - 130 124	SLOW ROTATION (4.4 rph) STOP SLOW ROTATION (4.4 rph)
0	FAST ROTATION (120 rpm)

• PRISM ROTATION - channel 16



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

• FOCUS - channel 20



BIT	EFFECT
255	NEAR
0	DISTANT

• FOCUS FINE -channel 21



BIT	EFFECT
255	NEAR
o	DISTANT

• ZOOM - channel 22







BIT	EFFECT
255	NARROW BEAM
	W05 05 114
0	WIDE BEAM

• AUTOFOCUS DISTANCE - channel 23

AUTOFOCUS priority:

- 1 Rotating gobo 2 Static gobo
- 3 Iris

BIT	EFFECT
255	100 METRES
26	10 METRES
23	9 METRES
20	8 METRES
18	7 METRES
15	6 METRES
13	5 METRES
10	4 METRES
7	3 METRES
0-6	AUTOFOCUS OFF

• AUTOFOCUS ADJUSTMENT - channel 24



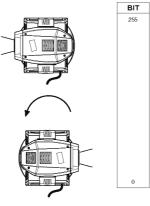
BIT	EFFECT
255	FOCUS FINE
128	
0	FOCUS FINE

• MACRO EFFECTS - channel 25

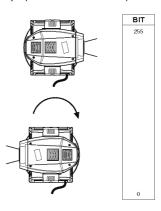
BIT	EFFECT
232-255	STAND BY BLACK
220-231	RANDOM MACRO 8
208-219	RANDOM MACRO 7
196-207	RANDOM MACRO 6
184-195	RANDOM MACRO 5
172-183	RANDOM MACRO 4
160-171	RANDOM MACRO 3
148-159	RANDOM MACRO 2
136-147	RANDOM MACRO 1
112-135	STAND BY BLACK
100-111	MACRO 8
88-99	MACRO 7
76-87	MACRO 6
64-75	MACRO 5
52-63	MACRO 4
40-51	MACRO 3
28-39	MACRO 2
16-27	MACRO 1
12-15	STAND BY BLACK
8-11	STAND BY
0-7	MACRO OFF

• PAN - channel 26

Operation with option InvertPan \$ Off (Tilt conventionally represented at 35 bit and option Invert Tilt \$ Off)

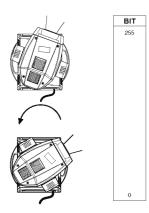


Operation with option InvertPan $\, \hat{\circ} \,$ On (Tilt conventionally represented at 35 bit and option Invert Tilt \\$\circ\$ Off)

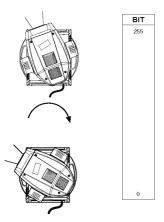


• PAN FINE - channel 27

Operation with option InvertPan $\,\,\hat{\circ}\,\,$ Off (Tilt conventionally represented at 35 bit and option Invert Tilt $\,\,\hat{\circ}\,\,$ Off)

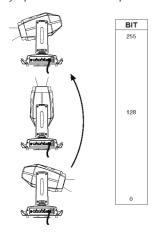


Operation with option InvertPan \$\hat{0}\$ On (Tilt conventionally represented at 35 bit and option Invert Tilt \$\hat{0}\$ Off)

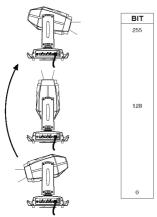


• TILT - channel 28

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

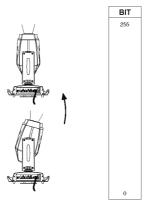


Operation with option Invert Tilt $\,\,\hat{\lor}\,\,$ On (Pan conventionally represented at 0 bit and option Invert Pan $\,\,\hat{\lor}\,\,$ Off)

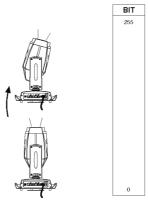


• TILT FINE - channel 29

Operation with option Invert Tilt \$\frac{1}{2}\$ Off (Pan conventionally represented at 0 bit and option Invert Pan \$\frac{1}{2}\$ Off)



Operation with option Invert Tilt \(\hat{O}\) On (Pan conventionally represented at 0 bit and option Invert Pan \(\hat{O}\) Off)



• FUNCTION - channel: 30

BIT	EFFECT	
255 63	FREE	
51-62	LINEAR (Default) — DIMMER CURVE	
38-50	CONVENTIONAL FUNCTION	
25-37	NORMALPAN-TILT	
12-24	FAST (Default) FUNCTION	
0-11	UNUSED RANGE	

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

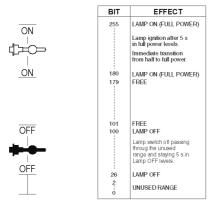
• RESET - channel: 31

BIT	EFFECT	
255	COMPLETE RESET	
	Complete reset is activated passing throug the unused range and staying 5 seconds in complete reset levels.	
128 127	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	PAN / TILT RESET EFFECTS RESET	
	Effects reset is activated passing throug the unused range and staying 5 seconds in Effects reset levels.	
26	EFFECTS RESET	
25	UNUSED RANGE	
76 26 25	S seconds in Pan / Tilt reset levels. PAN / TILT RESET EFFECTS RESET Effects reset is activated passing through the runsed range and staying 5 seconds in Effects reset levels. EFFECTS RESET	

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

• LAMP CONTROL (only with option LAMP DMX On) - channel: 32

IMPORTANT: Alpha Spot QWO 800 is not provided with hot restrike igniter



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

TIMING CHANNELS

	Timing Channel	Channel function	
33	Pan - Tilt time	Pan - Tilt - (Pan fine - Tilt fine)	
34	Colour time	CMY - Colour wheel - CTO	
35	Beam time	Dimmer - Frost - Iris - Focus - Zoom - Prism - Animation Disk	
36	Gobo time	Static Gobo - Rotating Gobo Change	

TIME TABLE

BIT	Seconds
0	Full
	0.2
1 2	0.2
-2	
3	0.6
5 6 7	0.8
- 5	1
0	1.2
	1.4
8	1.6
9	
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	4.4 4.6
24	4.8
25	5
26	5.2
27	5.4
28	5.6
29	5.8
30	6
31	6.2
I —	
32	6.4
33	6.6
34	6.8
35	7
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	10	
59	13	
60		
61	14	
62		
63	15	
64	15	
65		
66	16	
67		
68	17	
69	17	
70		
71	18	
72		
73	19	
74	13	
75		
76	20	
_77		
78		
79	21	
_80		
81	22	
_82		
83		
84	23	

BIT	Seconds
86	24
87	
88	05
89	25
90	
91	26
93	
94	27
95	21
96	
97	28
98	
99	29
100	_*
101	
102	30
103	
104	0.1
105	31
106	
107	32
108	
109	33
110	
111	
112	34
113	
114	35
115	
116	
117	36
118	
119	37
120	
121	20
<u>122</u> 123	38
123	
125	39
126	39
127	
128	40
120	

BIT	Seconds
129	
130	41
131	
132	40
133	42
134	
135	43
136	
137	4.4
138	44
139	
140	45
141	
142	40
143	46
144	
145	47
146	
147	40
148	48
149	
150	49
151	
152	
153	50
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158	52
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160	53
161	აა
162	
163	54
164	
165	55
166	ეე
167	
168	56
169	
170	57
171	51

BIT	Seconds
172	Seconds
173	58
	50
174	
175	F0
176	59
177	
178	60
179	
180	
181	65
182	
183	70
184	
185	
186	75
187	
188	80
189	
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