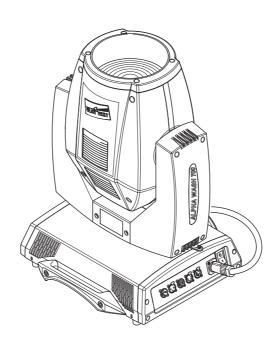
INSTRUCTION MANUAL



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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

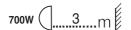
Installation

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 3 metres (9' 10") 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.



t_a 40°C

IP20



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.

t_c 150°C

• Temperature of the external surface

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

Maintenance

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply.

After switching off, do not remove any parts of the fitting for at least 10 minutes. After this time the likelihood of the lamp exploding is virtually nill. If it is necessary to replace the lamp, wait for another 20 minutes to avoid getting burnt.

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



Lamp

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

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



Battery

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



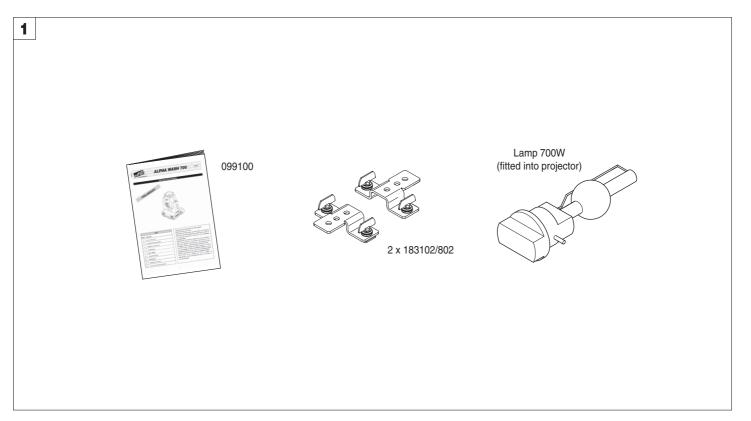
The products referred to in this manual conform to the European Community Directives to which they are subject:

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

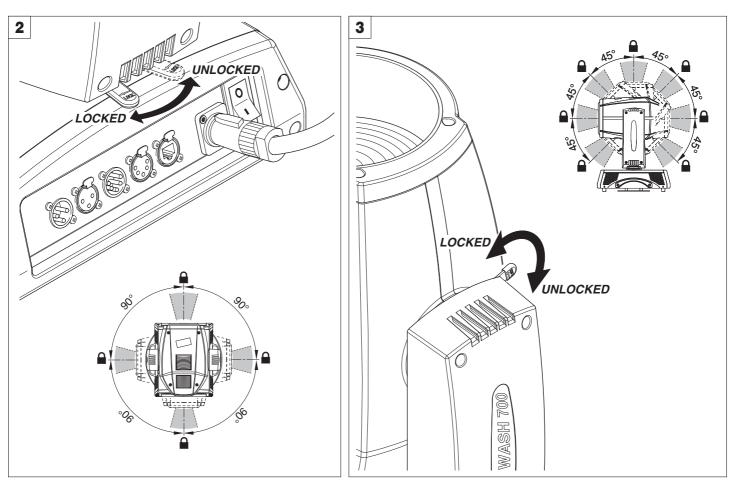
2

ALPHA WASH 700

UNPACKING AND PREPARATION



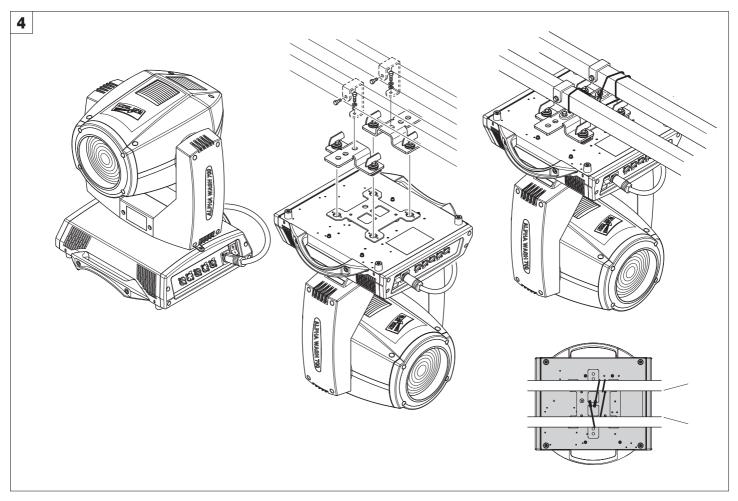
Packing contents - Fig. 1



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

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

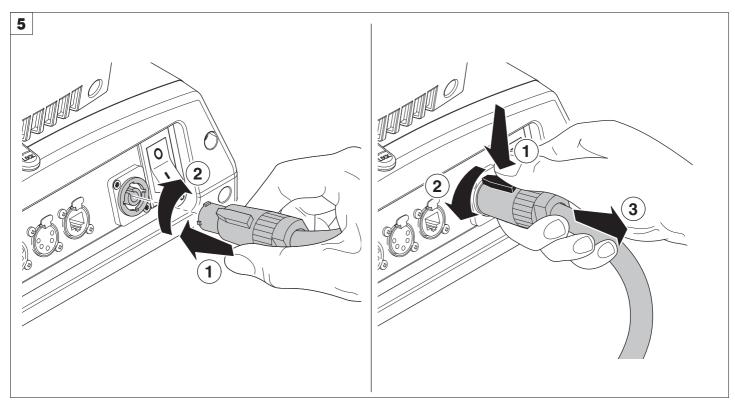
INSTALLATION AND START-UP



Installing the projector - Fig. 4

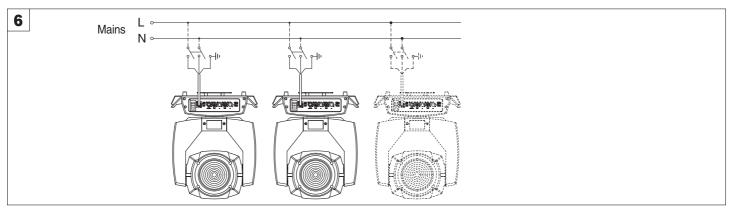
The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.

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.

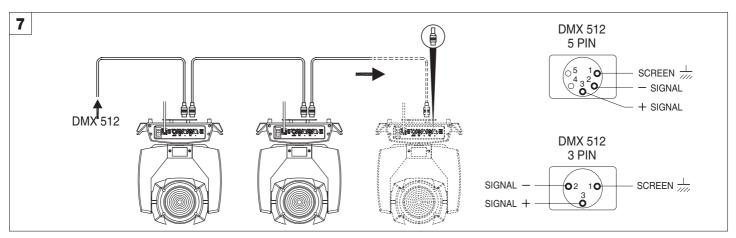


Connecting and disconnecting power cable - Fig. 5

CONTROL PANEL



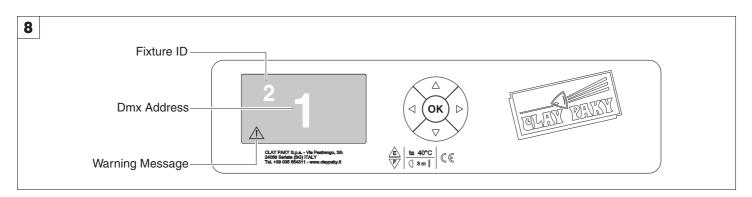
Connecting to the mains supply - Fig. 6



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:



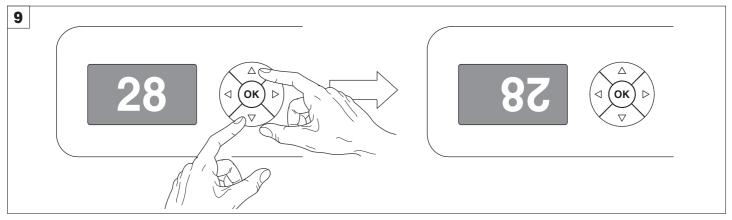
Model Alpha WASH 700 Firmware Version X.X.X Date - Hour

xxx (Fixture ID) Dmx Address xxx

System errors
E:
VA/-
vv:

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 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 address: see pag. 8.

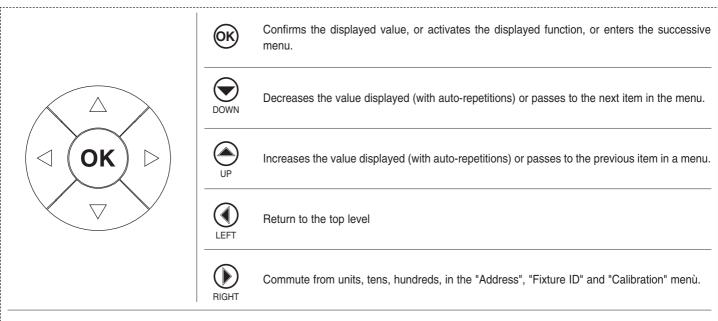
Setting the projector Fixture ID

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 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.

To enable the "Advanced" see pag.13

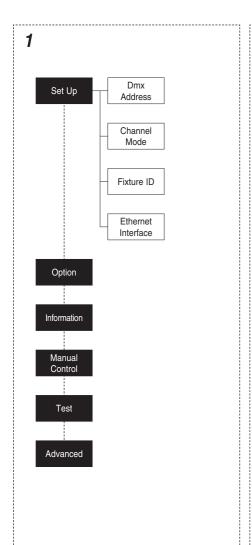
- 3) Press (x) to display the first item in the selected menu.
- 4) Use the UP
 and DOWN
 keys to select the MENU items.

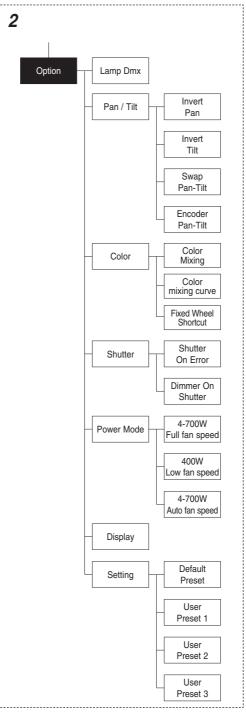
Setting addresses and options with the projector disconnected

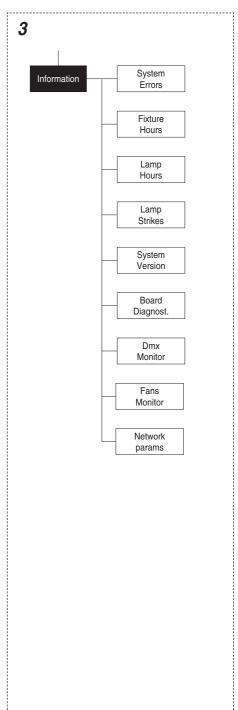
The projector's DMX address, as well as other possible operating options, can also be set when the appliance is disconnected from the electricity supply. All that is needed is to press to momentarily activate the display and thus access the settings. Once the required operations have been carried out,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

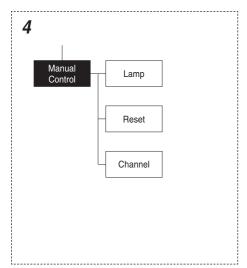
MENU SETTING

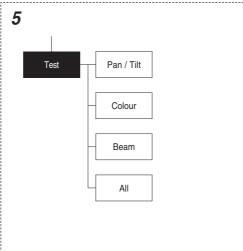
MAIN MENU

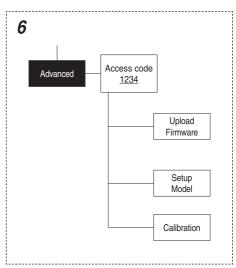


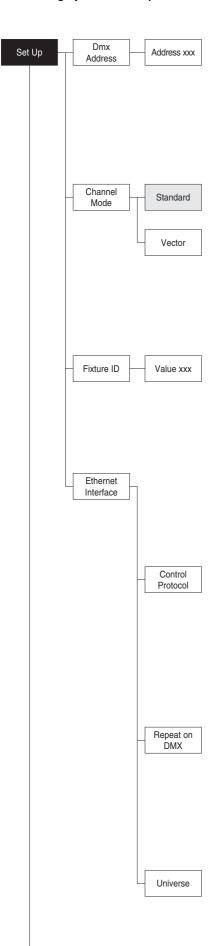












SET UP MENU

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

CHANNEL MODE

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

- 1) Press (the current settings appear on the display (Standard or Vector)
- 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 (A), DOWN (B), RIGHT (B) keys to plan the Fixture ID.
- 3) Press (k) 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

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 (A), DOWN (D), RIGHT (D) keys to set the Universe address.
- 3) Press (x) to confirm the selection or LEFT (1) to keep the current setting.

On Option Lamp Dmx On Invert Pan / Tilt Pan Off On Invert Tilt Off On Swap Pan-Tilt Off On Encoder Pan-Tilt Rgb Color Colo Mixing Cmy Color Curve 1 Mixing curve Curve 2 On Fixwheel

OPTIONS MENU

LAMP DMX

Used for enabling lamp remote control channel.

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

PAN / TILT

Invert pan

Used for reversing Pan movement.

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

Invert tilt

Used for reversing tilt movement.

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

Swap Pan-Tilt

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

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

COLOR

Color mixing

Used for reversing the CMY color mixing system.

- 1) Press (iv) the current settings appear on the display (On or Off).
- 2) Use the UP ♠ and DOWN ♠ keys select one of the following settings: RGB color mixing mode CMY color mixing mode
- 3) Press (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.

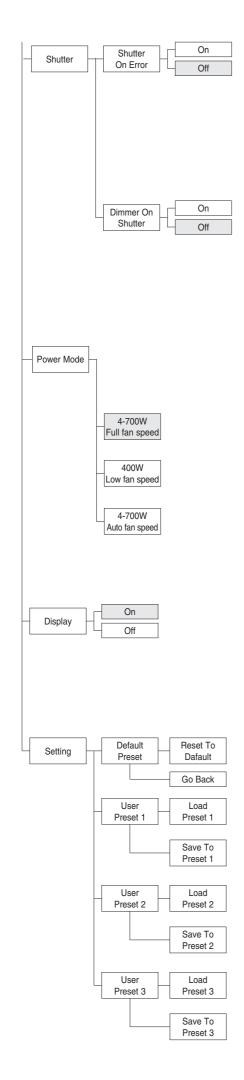
Curve 2

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

Dimmer on Shutter

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

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

POWER MODE

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

- 1) Press (the current settings appear on the display.
- 2) Use the UP
 and DOWN
 keys to select one of the following settings:
 - 4-700W Full fan speed: Lamp can change from full-power (700W) to half-power (400W) using the LAMP CONTROL channel. Fans always work at Full speed.
 - 400W Low fan speed: Lamp constantly works in half-power mode (400W) while the Fan always works at Low speed. With LAMP CONTROL channel you can only switch the lamp ON and OFF.
 - **4-700W Auto fan speed**: Lamp can change from full-power (700W) to half-power (400W) using the LAMP CONTROL channel. Automatically the fans switch from Full speed to Low speed respectively.
- 3) Press (to confirm the selection or LEFT (to keep current setting.

DISPLAY

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

- 1) Press (the current settings appear on the display (On or Off).
- 2) Use the UP
 and DOWN
 keys to enable (On) or disable (Off) the decreasing of display brightness.
- 3) Press (ix) 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 \odot "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.
- Select YES to confirm the selection or NO to keep the current setting and return to the next higher level.

(*) DEFAULT PRESET

10

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

1) Press (Are you sure?) appears on the display.

System Information Érrors XXX Total Fixture XXX Partial Hours Reset. Total XXX Lamp Partial XXX Hours Reset Total XXX Lamp Partial XXX Strikes Reset. 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 Color mixing CMY Color mixing curve Curve 1 Fixed Wheel Shortcut On Shutter on error Off Dimmer on Shutter Off

Power Mode 4-700 Full fan speed

Display On

INFORMATION MENU

SYSTEM ERRORS

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

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

LAMP HOURS

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

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

Total counter

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

Partial counter

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

- 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).

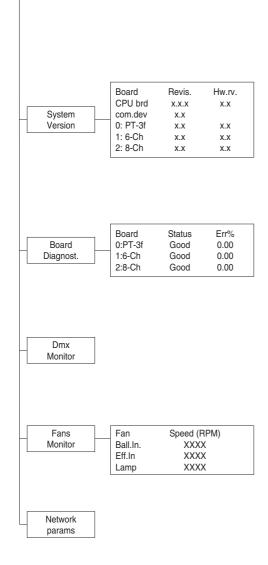
1) Press - the number of times the lamp was turned on (total and partial) appears on the display.

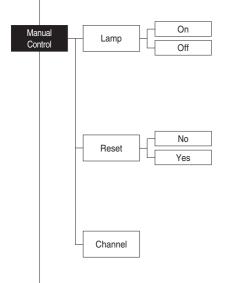
Total counter

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.
- 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)

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)

DMX MONITOR

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

FANS MONITOR

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

Ball. IN (Ballast IN Fan)

Eff.IN (Effects IN Fan)

Lamp (Lamp Fan)

NETWORK PARAMS

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

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

IP mask: 255.0.0.0

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.
- Select YES to starting reset the fixture or NO to keep the current setting and return to the top menu level.

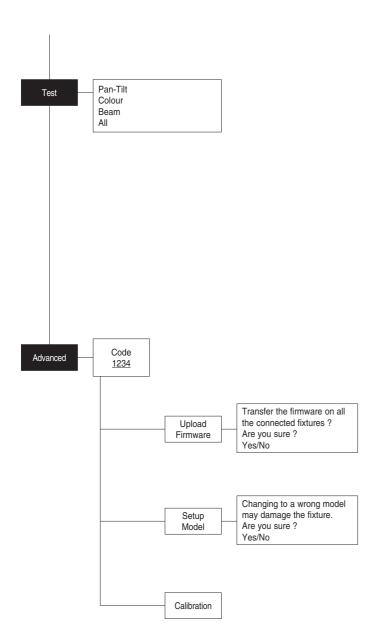
CHANNEL

12

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.

ALPHA WASH 700



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

Test sequence:

Pan - Tilt effects (Pan & Tilt)

Colour effects (CMY / CTO / Colour wheel)

Beam effects (Stopper-Strobe / Dimmer / Beam shaper / Zoom)

All effects

ADVANCED MENU

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

Press (or) - "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.

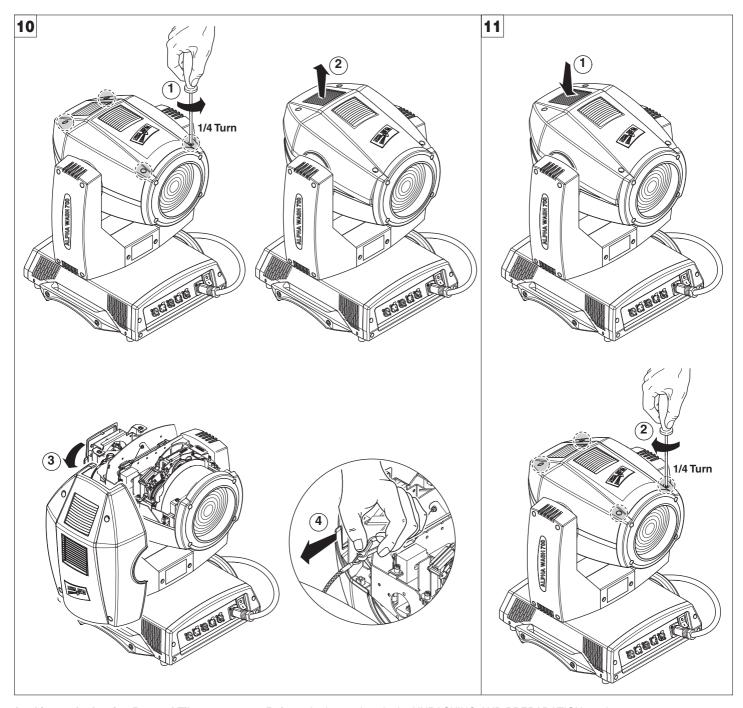
- 1) Press 🔊 "channels" appears on the display.
- 2) Using the UP
 and DOWN
 keys, select the effect you wish to regulate.
- 3) Press ♠ and use the RIGHT ♠, UP ♠ and DOWN ♠ buttons to make the adjustment by setting a value between 0 and 255.
- 4) Press (x) to confirm the selection or LEFT (1) to keep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

FACTORY DEFAULT

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

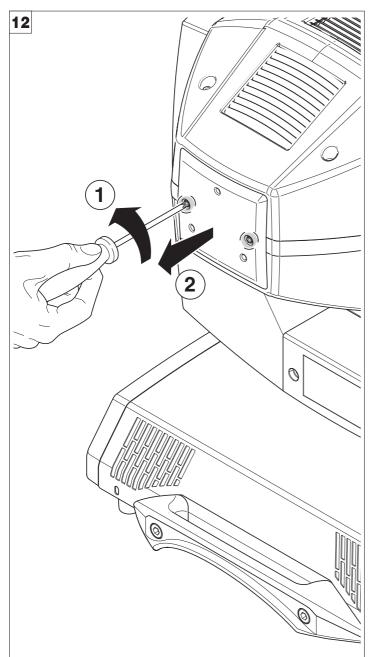
- 1) Press 🕟 a confirmation message appears on the display (Reset calibration to factory default ?).
- 2) Select YES to reset calibration to factory default or NO to keep the current setting and return to the top menu level.

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.



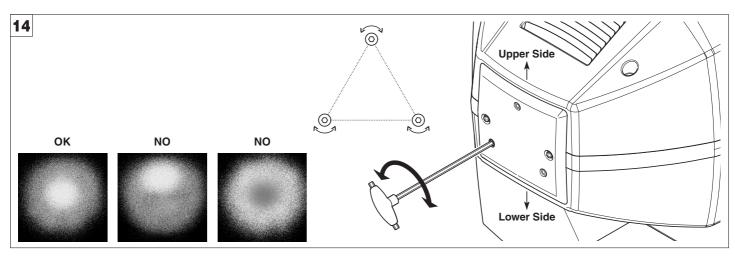
13 Upper Side Lower Side 3

Opening and closing lamp compartment - Fig. 12

Lamp change - Fig 13

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

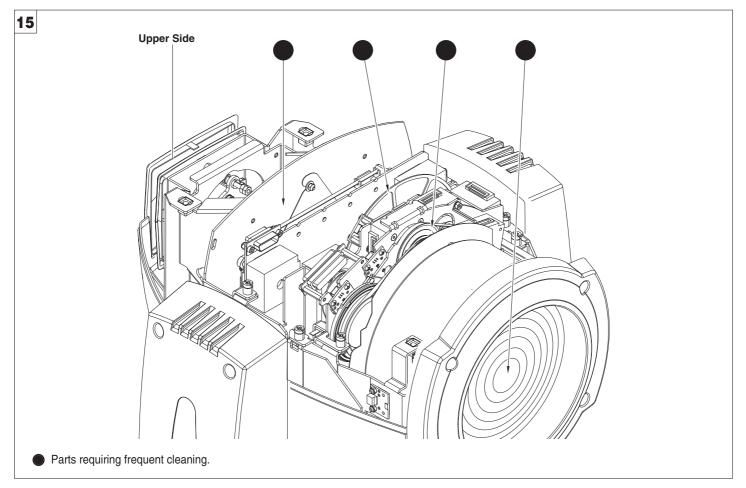
WARNING: do not touch the lamp's envelope with bare hands. Should this happen, clean the bulb with a cloth soaked in alcohol and dry it with a clean, dry cloth.



15

Lamp regulation - Fig. 14

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

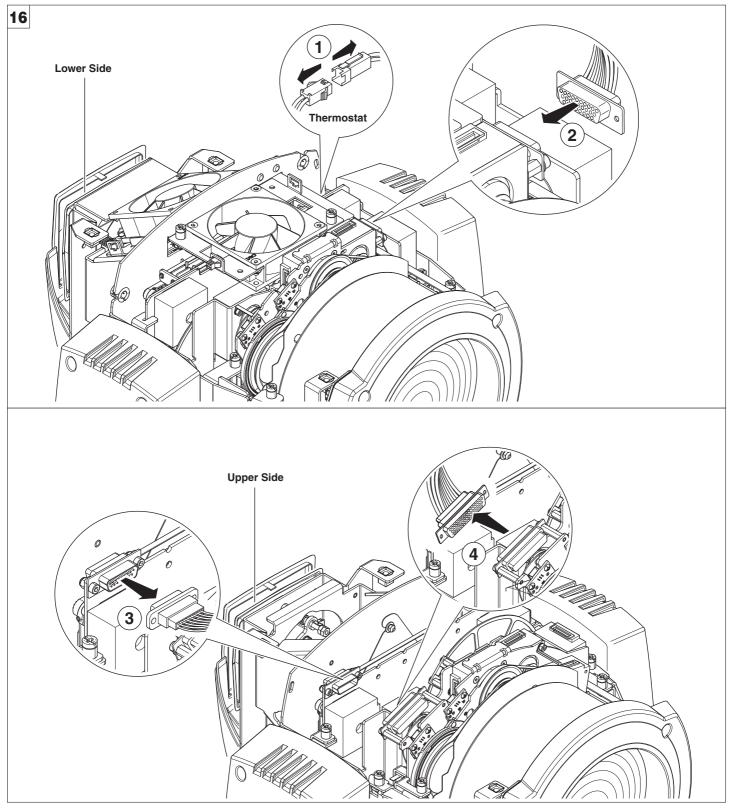


Periodical cleaning - Fig. 15

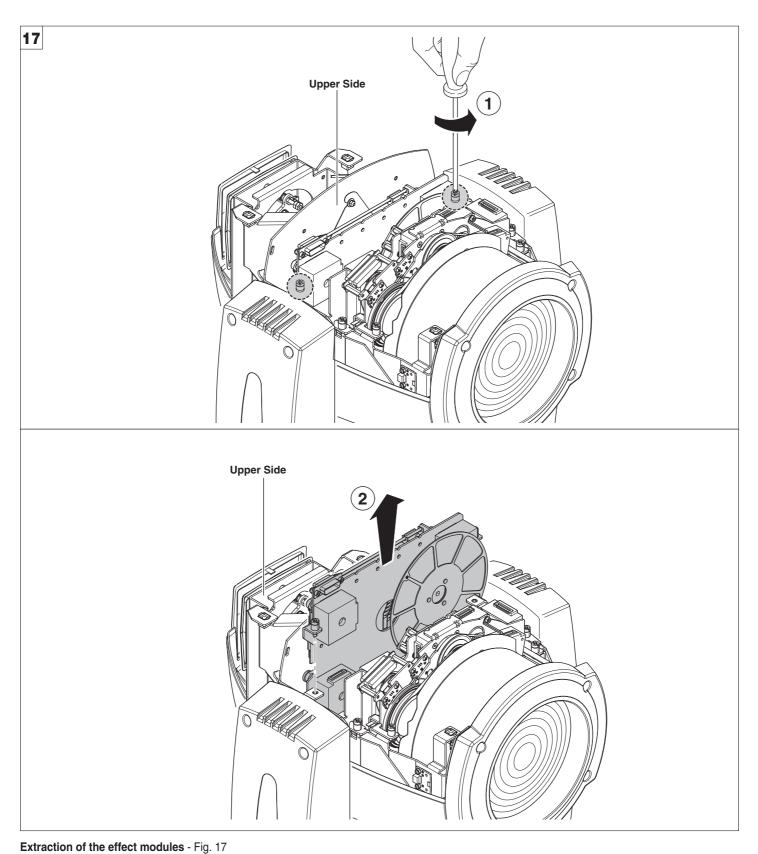
To ensure optimal operation and performance for a long time it is essential to periodically clean the parts subject to dust and grease deposits. The frequency with which the following operations are to be carried out depends on various factors, such as the amount of the effects and the quality of the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

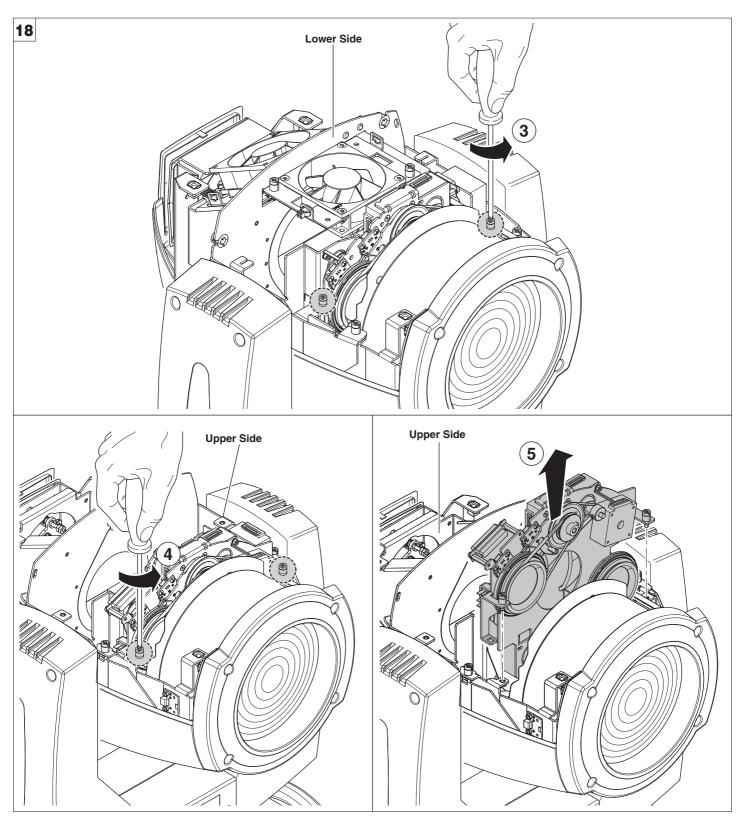
- General cleaning of internal parts.
- Restoring lubrication of all parts subject to friction, using lubricants specifically supplied by Clay Paky.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.



Extraction of the effect modules: Preliminary operations - Fig. 16



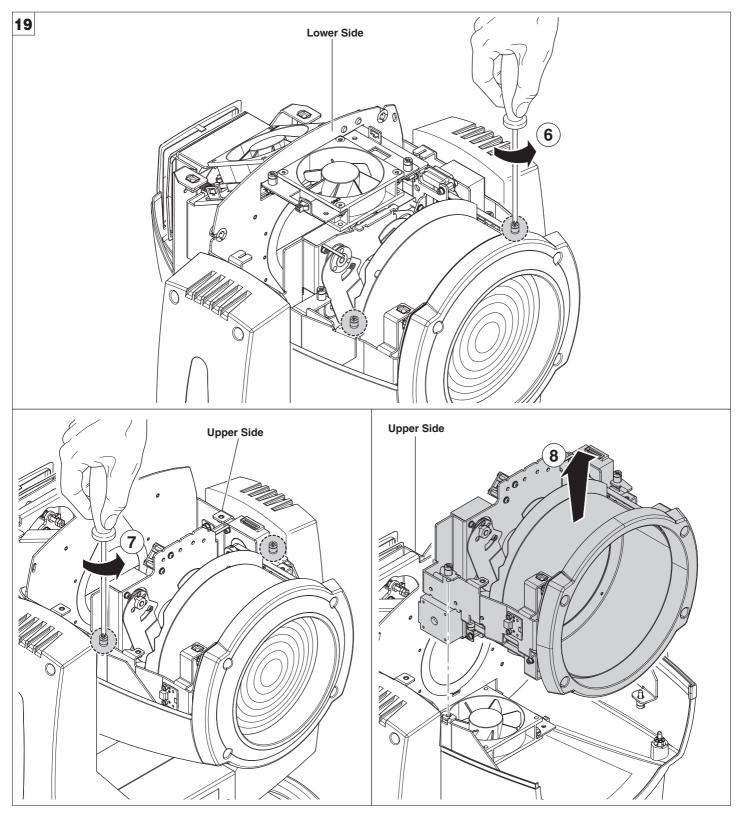
IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged. Insertion of the effect modules: Repeat the operations indicated in Fig. 16 - 17 - 18 and 19 in reverse order.



Extraction of the effect modules - Fig. 18

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

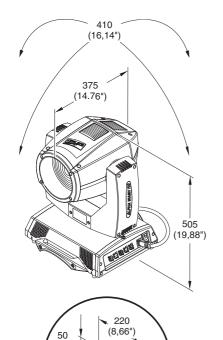
Insertion of the effect modules: Repeat the operations indicated in Fig. 16 - 17 - 18 and 19 in reverse order.

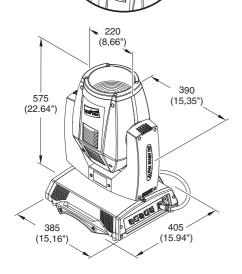


Extraction of the effect modules - Fig. 19

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. 16 - 17 - 18 and 19 in reverse order.





TECHNICAL INFORMATION

Power supplies available

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

Input power

• 1050VA a 230V 50Hz.

Lamp

Discharge lamp.

- Type MSR GOLD 700/2
- Cap PGJX28
- Colour temperature 7200 K
- Luminous flux 50000 lm
- Average life 750 h
- Any working position

Motors

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

Optical unit

• Elliptic reflector with high luminous efficiency

Channels

Max 21 control channels.

Inputs

• DMX 512

Movable body

- Movement by means of two stepper motors, controlled by microprocessor.
- Automatic repositioning of PAN and TILT after accidental movement not controlled by control unit
- Travel:
- PAN = 540°
- TILT = 250°
- Maximum speeds:
- PAN = 3.20 (Normal) / 2.90 (Fast)
- TILT = 1.89 (normal) / 1.75 (Fast)
- Resolution:
- $-PAN = 2.11^{\circ}$
- 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.

Weight

• about 20.60 Kg (45lbs 5ozs).

CAUSE AND SOLUTION OF PROBLEMS

	THE	PRO	JECTOR WILL NOT SWITCH ON		
	Е	ELEC	TRONICS NON-OPERATIONAL	DDOD! 5440	
		DI	EFECTIVE PROJECTION		PROBLEMS
			REDUCED LUMINOSITY		
			POSSIBLE CAUSES	CHECKS AND R	EMEDIES
•			No mains supply.	Check the power supply voltage.	
	\top	•	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 WASH 700

CHANNEL	CHANNEL MODE			
CHANNEL	STANDARD	VECTOR		
1	CYAN	CYAN		
2	MAGENTA	MAGENTA		
3	YELLOW	YELLOW		
4	сто	сто		
5	COLOUR WHEEL	COLOUR WHEEL		
6	STOP / STROBE	STOP / STROBE		
7	DIMMER	DIMMER		
8	DIMMER FINE	DIMMER FINE		
9	BEAM SHAPER INSERTION	BEAM SHAPER INSERTION		
10	BEAM SHAPER ROTATION	BEAM SHAPER ROTATION		
11	ZOOM	ZOOM		
12	PAN	PAN		
13	PAN FINE	PAN FINE		
14	TILT	TILT		
15	TILT FINE	TILT FINE		
16	FUNCTION	FUNCTION		
17	RESET	RESET		
18	LAMP CONTROL (with Option "Lamp Dmx" ON)	LAMP CONTROL (with Option "Lamp Dmx" ON)		
19		PAN - TILT TIME		
20		COLOUR TIME		
21		BEAM TIME		

• COLOUR MIXING - channel 1 - 2 - 3

Operation with option color mixing: RGB



BIT	%	EFFECT
255	100	COLOUR EXCLUDED
0	0.0	COLOUR INSERTED

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

Operation with option color mixing: CMY



BIT	%	EFFECT
255	100	COLOUR INSERTED
0	0.0	COLOUR EXCLUDED

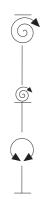
IMPORTANT: The lamp dim to half power 1 second after all the 3 channels stay at 100% level. The lamp goes back to full power when the channels level is put lower than 100%.

• C.T.O. - channel 4



BIT	%	EFFECT
255	100	FILTER INSERTED
0	0.0	EII TED EVOLUMEN

• COLOUR WHEEL - channel 5



DII	/0	EFFECT
255	100	FAST ROTATION (160 rpm)
128 127 120 112 1105 90 82 75 67 60 52 45 37 30 22 15 8	50.0 49.7 47.0 41.2 38.0 32.0 32.0 29.5 26.2 23.7 20.5 11.7 6.0 3.2	SLOW ROTATION (0.2 rpm) BLUE + WHITE BLUE ORANGE + BLUE ORANGE + CORANGE ACUMARINE + ORANGE ACUMARINE + AQUAMARINE LAVENDER + AQUAMARINE LAVENDER + AQUAMARINE LAVENDER + GREEN + LAVENDER LIGHT GREEN + LAVENDER GREEN + LIGHT GREEN GREEN + CORT GREEN + C

FEFECT

23

• STOP / STROBE - channel 6



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
108 104 - 107 103	42.5 41.0 - 42.0 40.5	SLOW PULSATION OPEN FAST STROBE (12 flash/sec)
4	1.7	SLOW STROBE (1 flash/sec)
0 - 3	0.0 - 1.2	CLOSED

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

• DIMMER - channel 7



BIT	%	EFFECT
255	100	2.1201
0	0.0	

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

• DIMMER FINE - channel 8



BIT	%	EFFECT
255	100	
0	0.0	

• BEAM SHAPER INSERTION - channel 9



BIT	%	EFFECT
170-255	66.7-100	SHAPER 2
85-169	33.2-66.2	SHAPER 1
0 - 84	0.0 - 33.0	WHITE

Continue →

• BEAM SHAPER ROTATION - channel 10



BIT	%	EFFECT
255	100	FAST ROTATION (120 rpm)
193 191 - 192 190	75.5 74.7 - 75.0 74.2	SLOW ROTATION (3 rph) STOP SLOW ROTATION (3 rph)
128 127	50.0 49.7	FAST ROTATION (120 rpm) 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°

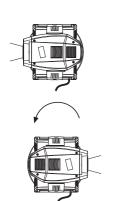
• ZOOM - channel 11



BIT	%	EFFECT
255	100	WIDE BEAM
0	0.0	NARROW BEAM

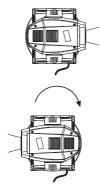
• PAN - channel 12

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



BIT	%
255	100
0	0.0

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



BIT	%
255	100
0	0.0

• PAN FINE - channel 13

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



BIT	%
255	100
0	0.0

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





• TILT - channel 14

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



BIT	%
255	100
128	50.0
0	0.0

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



BIT	%
255	100
128	50.0
0	0.0

• TILT FINE - channel 15

Operation with option Invert Tilt \hitharpoonup Off

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



BIT	%
255	100
0	0.0

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



alon involt i an		
BIT	%	
255	100	
0	0.0	

• FUNCTION - channel: 16

BIT	%	EFFECT
255	100	UNUSED RANGE
52	20.5	
51	20.0	LINEAR (DEFAULT)
39	15.0	CONVENTIONAL DIMMER CURVE FUNCTION
26	10.0	NORMAL SPEED PAN-TILT FUNCTION
13	5.0	FAST SPEED (DEFAULT)
0-12	0.0-4.7	UNUSED RANGE

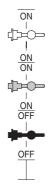
The functions are actived passing through the "unused range" and staying 5 seconds in necessary level $\,$

• RESET - channel: 17

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 HANGE

• LAMP CONTROL (only with option LAMP DMX On) - channel: 18

IMPORTANT: Alpha Wash 700 is not provided with hot restrike igniter



BIT	%	EFFECT
255	100	LAMP ON (FULL POWER)
		Lamp ignition after 5 s in full power levels.
		Immediate transition from half to full power.
180 179	70.5 70.0	LAMP ON (FULL POWER) LAMP ON (HALF POWER)
		Immediate transition from full to half power. Lamp ignition not allowed in half power.
101 100	39.5 39.0	LAMP ON (HALF POWER) 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
19	Pan - Tilt time	Pan - Tilt - (Pan fine - Tilt fine)
20	Colour time	CMY - CTO - Colour wheel
21	Beam time	Dimmer - Zoom

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	20		
	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	7		
36	7.2		
37	7.4		
38	7.6		
39	7.8		
40	8		
41	8.2		
42	8.4		
1 -			

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			
55	11		
56	1.5		
57	12		
58			
59	13		
60			
61	14		
62			
63			
64	15		
65			
66	16		
67			
68	. –		
69	17		
70			
71	18		
72			
73			
74	19		
75			
76	20		
77			
78			
79	21		
80			
81	22		
82			
83			
84	23		
	l		

BIT	Seconds
86	24
_87	
88	
89	25
90	
91	26
92	
93	
94	27
95	
96	28
97	
98	00
99	29
100	
101	00
102	30
103	
104	31
105	
106	00
107	32
108	
109	33
110	
111	0.4
112	34
113	
115	35
116	
117	36
118	50
119	
120	37
121	
122	38
123	50
124	
125	39
126	00
127	
128	40
0	

BIT	Seconds		
129			
130	41		
131			
132	4.0		
133	42		
134			
135	43		
136			
137	4.4		
138	44		
139			
140	45		
141			
142			
143	46		
144			
145	47		
146			
147	48		
148	70		
149			
150	49		
151			
152			
153	50		
154			
155	51		
156	31		
157			
158	52		
159			
160	53		
161	30		
162			
163	54		
164			
165	55		
166	33		
167			
168	56		
169			
170	57		
171	31		

BIT	Seconds		
172			
173	58		
174			
175			
176	59		
177			
178			
179	60		
180			
181	65		
182			
183			
184	70		
185			
186	75		
187	13		
188			
189	80		
190			
191	85		
192	33		
193			
194	90		
195			
196	95		
197	33		
198			
199	100		
200			
201	110		
202	110		
203			
204	120		
205	120		
206			
207	130		
208			
209	140		
210	140		
211			
212	150		
213			
214	160		
215	100		
210			

BIT	Seconds		
216			
217	170		
218			
219	180		
220			
221	100		
222	190		
223			
224	200		
225			
226			
227	210		
228			
229	000		
230	220		
231			
232	230		
233			
234	0.40		
235	240		
236			
_237	250		
238			
239	260		
240	200		
241			
242	270		
243			
244	280		
245	200		
246			
247	290		
248			
249	300		
250			
251			
252	310		
253			
254			
255	Follow cue		
	Data		

ALPHA WASH 700 26

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