## INSTRUCTION MANUAL



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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

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: [FISOOU - Safety Information Alpha 700 series]

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: [FIS00U - Safety Information Alpha 700 series]

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http://www.claypaky.it/en/download
Ref: [FISOOU - Safety Information Alpha 700 series]

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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:
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Réf. : [FISOOU - Safety Information Alpha 700 series]

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
Наименование: [FIS00U - Safety Information Alpha 700 series]


Packing contents - Fig. 1


PAN Mechanism Lock and Release (every $90^{\circ}$ ) - Fig. 2
TILT Mechanism Lock and Release (every $45^{\circ}$ ) - Fig. 3

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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
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DMX 512 5 PIN


DMX 512 3 PIN


Connecting to the control signal line (DMX) - Fig. 7
Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm 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 1200 hm (minimum $1 / 4 \mathrm{~W}$ ) 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.

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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 BEAM
700
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.

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Reversal of the display - Fig. 9
To activate this function, press UP $\Theta$ and DOWN $\ominus$ 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

Confirms the displayed value, or activates the displayed function, or enters the successive

## USING THE MENU:

1) Press œ once - "Main Menu" appears on the display.
2) Use the UP $\Theta$ and DOWN $\ominus$ 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 © to display the first item in the selected menu.
4) Use the UP $\Theta$ and DOWN $\Theta$ 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.


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5


6


## NOTE: On grey the default options



## SET UP MENU

## DMX ADDRESS

NOTE: without the DMX signal the Address (XXX) flashing
Allows you to select the DMX ADDRESS.

1) Press ® - the current DMX Adress appear on the display.
2) Use the UP $\Theta$ and DOWN $\Theta$, RIGHT (©) keys to plan the DMX Address.
3) Press œ to confirm the selection or LEFT (c) 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 $\odot$ and DOWN $\odot$ keys to select one of the following settings:

- Standard
- Vector

3) Press œ to confirm the selection or LEFT (c) 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 $\Theta$, DOWN $\Theta$, RIGHT © keys to plan the Fixture ID.
3) Press œ 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 $\Theta$ and DOWN $\Theta$ 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 $\Theta$ and DOWN $\Theta$ 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 ® to confirm the selection or LEFT (c) 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 $\Theta$ and DOWN $\Theta$ 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 (1) 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 $\Theta$, DOWN $\ominus$, RIGHT (1) keys to set the Universe address.
3) Press © to confirm the selection or LEFT (4) 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.

## 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 $\Theta$ and DOWN $\Theta$ keys to enable (On) or disable (Off) the lamp remote control channel.
3) Press © to confirm the selection or LEFT (9) 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 $\Theta$ and DOWN $\Theta$ keys to enable (On) or disable (Off) PAN inversion.
3) Press © to confirm the selection or LEFT (ব) to keep current settings.

## Invert tilt

Used for reversing tilt movement.

1) Press ® - the current settings appear on the display (On or Off).
2) Use the UP $\Theta$ and DOWN $\Theta$ 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 $\Theta$ and DOWN $\Theta$ keys to enable (On) or disable (Off) Pan and Tilt channel swap.
3) Press © to confirm the selection or LEFT (ব) 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 $\Theta$ and DOWN $\Theta$ keys to enable (On) or disable (Off) Pan / Tilt encoders.
3) Press œ to confirm the selection or LEFT (4) to keep current settings.

You can quickly disable the Pan and Tilt Encoder by simultaneously pressing the UP $\Theta$ and DOWN $\Theta$ keys in the "Main Menu".

## P/T Homing Mode

Lets you set the initial projector Reset mode.

1) Press @, the current setting appears on the display.
2) Use the UP $\Theta$ and DOWN $\ominus$ 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 (4) 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 œ, the current setting appears on the display.
2) Use the UP $\Theta$ and DOWN $\Theta$ 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 (4) 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 $\Theta$ and DOWN $\Theta$ keys to select one of the following settings: 0\%
12.5\%

25\%
$50 \%$ (default)
75\%
87.5\%
$100 \%$
3) Press © to confirm the selection or LEFT (4) 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).
2) Use the UP $\Theta$ and DOWN $\ominus$ keys select one of the following settings: RGB color mixing mode
CMY color mixing mode
3) Press © to confirm the selection or LEFT ( $(1)$ to keep current settings.

## Color mixing curve

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

1) Press $\circledast$ the current setting appears on the display.
2) Use the UP $\Theta$ and DOWN $\ominus$ keys to select one of the following settings:

## Curve 1

Curve 2
3) Press © to confirm the selection or LEFT (4) 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).
2) Use the UP $\Theta$ and DOWN $\Theta$ keys to enable (On) or disable (Off) color change optimization.
3) Press © to confirm the selection, or LEFT (4) 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).
2) Use the UP $\Theta$ and DOWN $\ominus$ 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 (4) to keep current settings.

## Dimmer on Shutter

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

1) Press ®) - the current settings appear on the display (On or Off).
2) Use the UP $\Theta$ and DOWN $\Theta$ keys to enable (On) or disable (Off) the automatic closing of the dimmer.
3) Press © to confirm the selection, or LEFT (4) 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 $\Theta$ and DOWN $\Theta$ 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 (4) 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 $\Theta$ and DOWN $\Theta$ keys to enable (On) or disable (Off) the decreasing of display brightness.
3) Press © to confirm the selection or LEFT (4) to keep current settings.



## 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.
3) 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 œ - 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 œ 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: 8-Ch (8 channel board)
2: 8-Ch (8 channel board)

## BOARD DIAGNOSTIC

Used for displaying the status error of each board installed in the projector: 0: PT-3f (Pan / Tilt board)
1: 8-Ch (8 channel board)
2: 8-Ch (8 channel board)

## DMX MONITOR

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

## FANS MONITOR

Used for displaying the speed of each fan installed in the projector:
Ball. IN (Ballast IN Fan)
Eff.IN (Effects IN Fan)
Lamp (Lamp Fan)

## 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
- $\mathrm{ON}=$ 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 $\Theta$ and DOWN $\Theta$ keys to turn the lamp on (On) or off (Off)
3) Press © to confirm the selection or LEFT (1) to keep current settings and return to the top level.

## RESET

Used for resetting the projector.

1) Press © to reset the projectors, a confirmation message (Are you sure ?) appears on the display.
2) Select YES to starting reset the fixture or NO to keep the current setting and return to the top menu level.

## CHANNEL

Used for setting channel levels from the projector control panel.

1) Press © - the first channel appears on the display.
2) Use the UP $\Theta$ and DOWN $\Theta$ keys to select the required channel:
3) Press ® and use the UP $\theta$ and DOWN $\odot$ keys to select the required DMX level (value between 0 and 255).
4) Press LEFT (4) to return to the top menu level.

## TEST MENU

## TEST

Allows you to check the proper functioning of effects.

1) Press © to return to the top menu level.
2) Use the UP $\Theta$ and DOWN $\Theta$ keys to select the required test.
3) Press œ to confirm the selection or LEFT (4) to keep current settings.

Test sequence:
Pan - Tilt effects (Pan \& Tilt)
Colour effects (CMY, colour wheel)
Beam effects (Stopper-Strobe / Dimmer / Iris / Prism / Frost)
Gobo effects (Fixed gobo / Rotating gobo)
All effects

## ADVANCED MENU

To enable the "Advanced Menu" set up the "Access code" (1234) using the UP $\Theta$, DOWN $\ominus$, RIGHT © keys.
Press ® - "Menu advanced" appears on the display

## UP LOAD FIRMWARE

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

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

## SETUP MODEL

Allows you to change the default model of projector

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

## CALIBRATION

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

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

## FACTORY DEFAULT

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

1) Press œ - 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.

## MENU LOCKING

It allows you to assign a password to lock the access to the user menu, so that only users know the password can change settings. The password is 4-digit number.


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

## Closing the head covers - Fig. 11.



Opening and closing lamp compartment - Fig. 12


Lamp change - Fig 13
Take the new lamp out of its package and insert in the fitting.
WARNING: do not touch the lamp's envelope with bare hands. Should this happen, clean the bulb with a cloth soaked in alcohol and dry it with a clean, dry cloth.
IMPORTANT: Make sure the lamp is inserted with the external contact (A) facing the elliptical reflector's slot.
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 ( $\varnothing 31.5 \mathrm{~mm}$ - max 25 mm image - thickness max 1.1 mm ) - Fig. 15
WARNING: Before using personalised gobos contact Clay Paky.


Bearing group replacement - Fig. 16
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Replacing rotating gobos (ø 25.7 mm - max 23 mm image - thickness max 1.1 mm ) - Fig. 17
IMPORTANT: Use only glass gobos on the rotating gobos wheels.
WARNING: Before using personalised gobos contact Clay Paky.
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## COATED GLASS GOBOS TYPE 1



Reflective side towards lamp


To determine which side of a godo is coated, hold an odject up to it. On the uncoated side, there is a space between the object and its reflection.

## Gobo orientation - Fig. 18

The pictures shown the correct gobos orientation.


- Parts requiring frequent cleaning.

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 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.


Upper Side


Lower Side


Extraction of the effect modules: Preliminary operations - Fig. 20


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 and 21 in reverse order.


## Battery removal - Fig. 22

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## TECHNICAL INFORMATION

## Power supplies available

100-120V 50/60Hz
$200-240 \mathrm{~V} 50 / 60 \mathrm{~Hz}$

## Input power

- 1050VA a 230 V 50 Hz .


## Lamp:

Discharge lamp.

- Type MSR Gold 700/2 Mini Fast Fit (L10098)
- Cap PGJX28
- Colour temperature 7250 K
- Luminous flux 50000 Im
- Average life 750 h
- Any working position
- Type MSR Gold 700/1 Mini Fast Fit (LAM003)
- Cap PGJX28
- Colour temperature 5700 K
- Luminous flux 54000 Im
- Average life 750 h
- Any working position
- Type Lok-it HTI 700W-60-P28 (LAM005)
- Cap PGJX28
- Colour temperature 6000 K
- Luminous flux 50000 Im
- Average life 750 h
- Any working position


## Motors

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

## Optical unit

- Elliptic reflector with high luminous efficiency


## Channels

Max 26 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.
- Travel:
- PAN = $540^{\circ}$
- TILT = $250^{\circ}$
- Maximum speeds:
- PAN = 3.20 (Normal) / 2.90 (Fast)
- TILT = 1.89 (normal) / 1.75 (Fast)
- Resolution:
- PAN = $2.11^{\circ}$
- PAN FINE $=0.008^{\circ}$
- TILT = $0.98^{\circ}$
- TILT FINE = $0.004^{\circ}$


## 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.

## 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

Working in any position.

## Weight

- 20.80 Kg (45lbs 12ozs).


## CAUSE AND SOLUTION OF PROBLEMS

| THE PROJECTOR WILL NOT SWITCH ON |  |  |  |  |  | PROBLEMS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ELECTRONICS NON-OPERATIONAL |  |  |  |  |  |
|  |  | DEFECTIVE PROJECTION |  |  |  |  |
|  |  | REDUCED LUMINOSITY |  |  |  |  |
|  |  |  |  | POSSIBLE CAUSES | CHECKS AND REMEDIES |  |
| $\bullet$ |  |  |  | No mains supply. | Check the power supply voltage. |  |
| $\bullet$ |  |  | - | Lamp exhausted or defective. | Replace the lamp. (See instructions). |  |
|  | $\bullet$ |  |  | Signal transmission cable faulty or disconnected. | Replace the cables. |  |
|  | $\bullet$ |  |  | Incorrect addressing. | Check addresses (see instructions). |  |
|  | $\bullet$ |  |  | Fault in the electronic circuits. | Call an authorised technician. |  |
|  |  | - |  | Lenses or reflector broken | Call an authorised technician. |  |
|  |  | $\bullet \cdot$ | $\bullet$ | Dust or grease deposited. | Clean (see instructions). |  |

## ALPHA BEAM 700

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).

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

NOTE: On conclusion of resetting in case of absence of DMX signal, Pan \& Tilt move to the "Home" position (Pan 128 bit - Tilt 128 bit) all the others channels stay at $\mathbf{0}$ bit.

- COLOUR MIXING - channel 1-2-3

Operation with option color mixing: RGB


| BIT | 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


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.

- COLOUR WHEEL - channel 4

- STOP / STROBE - channel 5


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

- DIMMER - channel 6


| BIT | EFFECT |
| :---: | :---: |
| 255 |  |
|  |  |
|  |  |

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

- DIMMER FINE - channel 7

- IRIS - channel 8


- ROTATING GOBO CHANGE - channel 10

- GOBO ROTATION - channel 11

|  | BIT | EFFECT |
| :---: | :---: | :---: |
|  | 255 | FAST ROTATION (180 rpm) |
| (c) |  |  |
| (2) | 193 | SLOW ROTATION (2.2 rph) |
| STOP - | 191-192 | STOP |
| (6) | 190 | SLOW ROTATION (2.2 rph) |
| (0) | , |  |
|  | 128 | FAST ROTATION (180 rpm) |
| - | 127 | $540^{\circ}$ POSITION |
|  | 105 | $450^{\circ}$ POSITION |
|  | 84 | $360^{\circ}$ POSITION |
| $\triangle{ }^{360^{\circ}}$ | 63 | $270^{\circ}$ POSITION |
|  | 42 | $180^{\circ}$ POSITION |
| $\triangle{ }^{\circ}$ | 21 | $90^{\circ}$ POSITION |
|  | 0 | $0^{\circ}$ POSITION |

- PRISM INSERTION - channel 12

| BIT | EFFECT |
| :---: | :---: |
| 255 |  |
|  |  |
| 128 | PRISM INSERTED |
| 127 |  |
| 0 | PRISM EXCLUDED |

- PRISM ROTATION - channel 13


| BIT | EFFECT |
| :---: | :--- |
| 255 | FAST ROTATION (120 rpm) |
| $\vdots$ |  |
| $\vdots$ |  |
| 193 |  |
| 191.192 | SLOW ROTATION (3 rph) |
| 190 | STOP |
| $\vdots$ |  |
| $\vdots$ |  |
| 128 | FASTATR ROTATION (3 rph) $(120 \mathrm{rpm})$ |
| 127 | POSITION $540^{\circ}$ |
| 105 | POSITION $450^{\circ}$ |
| 84 | POSITION $360^{\circ}$ |
| 63 | POSITION $270^{\circ}$ |
| 42 | POSITION $180^{\circ}$ |
| 21 | POSITION $90^{\circ}$ |
| 0 | POSITION $0^{\circ}$ |

- FROST - channel 14


| BIT | EFFECT |
| :---: | :---: |
| 255 | FROST INSERTED |
|  |  |
|  |  |
| 0 |  |

- FOCUS - channel 15


| BIT | EFFECT |
| :---: | :---: |
| 255 | DISTANT |
|  |  |
|  |  |
| 0 | NEAR |

- PAN - channel 16

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


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


- PAN FINE - channel 17

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


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


- TILT - channel 18

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


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


- TILT FINE - channel 19

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


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


- FUNCTION - channel: 20


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

- RESET - channel: 21

| BIT | EFFECT |
| :---: | :--- |
| $243-255$ | COMPLETE RESET |
|  | Complete reset is activated passing throug the unused |
| range and staying 5 seconds in complete reset levels. |  |
| $240-242$ | Rotating Gobo OFFSET 13 |
| $237-239$ | Rotating Gobo OFFSET 12 |
| $234-236$ | Rotating Gobo OFFSET 11 |
| $231-233$ | Rotating Gobo OFFSET 10 |
| $228-230$ | Rotating Gobo OFFSET 9 |
| $225-227$ | Rotating Gobo OFFSEE 8 |
| $222-224$ | Rotating Gobo OFFSET 7 |
| $219-221$ | Rotating Gobo OFFSET 6 |
| $216-218$ | Rotating Gobo OFFSET 5 |
| $213-215$ | Rotating Gobo OFFSET 4 |
| $210-212$ | Rotating Gobo OFFSET 3 |
| $207-209$ | Rotating Gobo OFFSET 2 |
| $204-206$ | Rotating Gobo OFFSET 1 |
| $128-203$ | COMPLETE RESET |
|  | Complete reset is activated passing throug the unused |
| $77-127$ | range and staying 5 seconds in complete reset levels. |
|  | PAN/TILT RESET |
|  | Pan/Tilt reset is activated passing throug the unused |
| range and staying 5 seconds in Pan/Tilt reset levels. |  |
| $26-76$ | EFFECTS RESET |
|  | Effects reset is activated passing throug the unused |
| range and staying 5 seconds in Effects reset levels. |  |
| $0-25$ | Unused range |

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: 22

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


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

|  | Timing Channel | Channel function |
| :---: | :---: | :--- |
| 23 | Pan - Tilt time | Pan - Tilt - (Pan fine - Tilt fine) |
| 24 | Colour time | CMY - Colour wheel |
| 25 | Beam time | Dimmer - Frost - Iris - Prism insertion |
| 26 | Gobo time | Static Gobo - Rotating Gobo Change |

## TIME TABLE

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


| 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 | 11 |
| 55 | 11 |
| 56 |  |
| 57 | 12 |
| 58 | 13 |
| 59 | 13 |
| 60 |  |
| 61 | 14 |
| 62 |  |
| 63 | 15 |
| 64 | 15 |
| 65 |  |
| 66 | 16 |
| 67 |  |
| 68 | 17 |
| 69 | 17 |
| 70 |  |
| 71 | 18 |
| 72 |  |
| 73 |  |
| 74 | 19 |
| 75 |  |
| 76 | 20 |
| 77 |  |
| 78 |  |
| 79 | 21 |
| 80 |  |
| 81 | 22 |
| 82 | 22 |
| 83 |  |
| 84 | 23 |
| 85 |  |


| BIT | Seconds | BIT | Seconds |
| :---: | :---: | :---: | :---: |
| 86 | 24 | 129 |  |
| 87 | 24 | 130 | 41 |
| 88 |  | 131 |  |
| 89 | 25 | 132 |  |
| 90 |  | 133 | 42 |
| 91 | 26 | 134 |  |
| 92 | 26 | 135 | 43 |
| 93 |  | 136 |  |
| 94 | 27 | 137 |  |
| 95 |  | 138 | 44 |
| 96 |  | 139 |  |
| 97 | 28 | 140 | 45 |
| 98 |  | 141 |  |
| 99 | 29 | 142 | 46 |
| 100 |  | 143 | 46 |
| 101 |  | 144 |  |
| 102 | 30 | 145 | 47 |
| 103 |  | 146 |  |
| 104 | 31 | 147 |  |
| 105 | 31 | 148 | 48 |
| 106 |  | 149 |  |
| 107 | 32 | 150 | 49 |
| 108 |  | 151 |  |
| 109 | 33 | 152 |  |
| 110 | 33 | 153 | 50 |
| 111 |  | 154 |  |
| 112 | 34 | 155 | 51 |
| 113 |  | 156 | 51 |
| 114 | 35 | 157 |  |
| 115 | 35 | 158 | 52 |
| 116 |  | 159 |  |
| 117 | 36 | 160 |  |
| 118 |  | 161 | 53 |
| 119 |  | 162 |  |
| 120 | 37 | 163 | 54 |
| 121 |  | 164 |  |
| 122 | 38 | 165 | 55 |
| 123 |  | 166 | 55 |
| 124 |  | 167 |  |
| 125 | 39 | 168 | 56 |
| 126 |  | 169 |  |
| 127 |  | 170 | 57 |
| 128 | 40 | 171 | 57 |


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


| $\frac{\text { BIT }}{216}$ Seconds |  |
| :---: | :---: |
| $\frac{217}{218}$ | 170 |
| $\frac{219}{220}$ | 180 |
| $\frac{221}{222}$ | 190 |
| $\frac{223}{224}$ | 200 |
| $\frac{225}{226}$ | 210 |
| $\frac{227}{228}$ |  |
| $\frac{229}{230}$ | 220 |
| $\frac{231}{232}$ | 230 |
| $\frac{233}{234}$ | 240 |
| $\frac{235}{236}$ | 250 |
| $\frac{237}{238}$ | 270 |
| $\frac{239}{240}$ | 260 |
| $\frac{241}{242}$ | 270 |
| $\frac{243}{244}$ | 280 |
| $\frac{245}{246}$ | 290 |
| $\frac{247}{248}$ | 200 |
| $\frac{249}{250}$ | 300 |
|  |  |
|  |  |

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[^0]:    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.

