

# A.LEDA WASH K5 A.LEDA WASH K10 A.LEDA WASH K20

C61401 C61405 C61410

# **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 0.20 metres (8") from the lens of the projector.

### Minimum distance from flammable materials

The projector must be positioned so that any flammable materials are at least 0.20 metres (8") from every point on the surface of the fitting.

### Mounting surfaces

IP20 protection rating

It is permissible to mount the fitting on normally flammable surfaces.

Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C (104° F).



F,

LED ( 0.2 m

IP20



### digit 2), but not against dripping water, rain, splashes or jets of water (second digit 0).

Maximum ambient temperature

### 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).

The fitting is protected against penetration by solid bodies of over 12mm (0.47") in diameter (first

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<sub>c</sub> 90°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  $90^{\circ}C$  ( $194^{\circ}F$ ).

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

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







Maintenance

supply.

Battery

Photobiological Safety

CAUTION. Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eyes.

The products to which this manual refers comply with the European Directives pursuant to: • 2006/95/EC - Safety of electrical equipment supplied at low voltage (LVD)

• 2004/108/EC - Electromagnetic Compatibility (EMC)

• 2011/65/EU - Restriction of the use of certain hazardous substances (RoHS)

# **UNPACKING AND PREPARATION**



Packing contents - Fig. 1



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

# **INSTALLATION AND START-UP**



### Installing the projector - Fig. 3

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. 4

# **CONTROL PANEL**



Connecting to the mains supply - Fig. 5



### Connecting to the control signal line (DMX) - Fig. 6

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. 7

Press the switch. The projector starts resetting the effects. At the same time, the following information scrolls on the display:



On conclusion of resetting in case of absence of the dmx signal, Pan and Tilt move to the "Home" position (Pan 50% - Tilt 50%). The control panel (Fig. 7) 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 (ref) key will be cancelled.



### Reversal of the display - Fig. 8

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



1) Press 🛞 once – "Main Menu" appears on the display.

- 2) Use the UP and DOWN keys to select the menu to be used:
  - Setup (Setup Menu): To set the setting options.
  - Option (Option Menu): To set the operating options
  - Informations (Informations Menu): To read the counters, software version and other information.
  - Manual Control (Manual control Menu): To trigger the test and manual control functions.
  - Test (Test Menu): To check the proper functionning of effects
  - Advanced (Advanced Menu): Access to the "Advanced menu" is recommended for a trained technical personnel.
  - To enable the "Advanced" see pag.13

3) Press (K) 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 in 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**



Continue 🔶

### 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 (0K) - the current DMX Adress appear on the display.

- 2) Use the UP ( and DOWN ), RIGHT ( 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).
- Use the UP 

   and DOWN 

   keys to select one of the following settings:
  - Standard
  - Shape
  - Extended
  - Extended RGBW
- Press (k) to confirm the selection or LEFT (1) to keep current settings.

#### **FIXTURE ID**

Allows you to select the FIXTURE ID.

- 1) Press 🛞 the current Fixture ID appear on the display.
- 2) Use the UP (A), DOWN (A), RIGHT (A) keys to plan the Fixture ID.
- 3) Press ( to confirm the selection or LEFT ( to keep current settings.

#### ETHERNET INTERFACE

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

1) Premere 🛞.

### **Control Protocol**

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

- 1) Press I the current setting appears on the display.
- - Art-net on IP 2
  - Art-net on IP 10

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

### Repeat on DMX

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

- 1) Press is the current setting appears on the display.
- 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 ( , DOWN , RIGHT ) keys to set the Universe address.
- 3) Press 🐵 to confirm the selection or LEFT 🕢 to keep the current setting.



# **OPTIONS MENU**

#### PAN / TILT Invert pan

Used for reversing Pan movement.

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

## Invert tilt

Used for reversing tilt movement.

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

## P/T Homing Mode

Lets you set the initial projector Reset mode.

- 1) Press (k), the current setting appears on the display.
- 2) 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 (K), 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 0, the current setting appears on the display.
- 2) Use the UP (and DOWN (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 🕥 to keep the current setting.



## SILENT MODE

It lets you select the "Silent 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:

Standard: Maximum speed and consequently maximum effects noise level. Quiet: reduces the speed of some effects, thereby reducing their noise level.

3) Press 🛞 to confirm the selection or LEFT 🕥 to keep the 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).
- Use the UP and DOWN keys to enable (On) or disable (Off) the decreasing of display brightness.
- 3) Press 🛞 to confirm the selection or LEFT 🛈 to keep current settings.

# SPECIAL FUNCTIONS

### Pan / Tilt speed

Lets you select two different Pan and Tilt speeds.

- 1) Press 🛞 the current setting appears on the display.
- Use the UP and DOWN keys to select one of the following settings:
- Normal
- Fast
- Press ( to confirm the selection or LEFT ( to keep current settings.

# **Dimmer Curve**

Lets you select four different Dimmer channel curves.

- 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
- Curve 3
- Curve 4
- 3) Press to confirm the selection or LEFT to keep current settings.

# RGB Gamma

Lets you select three different RGBW gamma curves.

- 1) Press the current setting appears on the display.
- Use the UP and DOWN keys to select one of the following settings:
  - Gamma 1.0
- Gamma 1.5
- Gamma 2.0
- 3) Press (1) to confirm the selection or LEFT (1) to keep current settings.

# Halogen Mode

Lets you select five different halogen lamp simulations.

- 1) Press 🛞 the current setting appears on the display.
- 2) Use the UP ( and DOWN ( keys to select one of the following settings:
  - Halogen OFF
  - Halogen Lamp 1
  - Halogen Lamp 2
  - Halogen Lamp 3
- Halogen Lamp 4
- Halogen Lamp 5
- 3) Press 🛞 to confirm the selection or LEFT 🕥 to keep current settings.





### SETTING

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

- 1) Press 🛞 "Default preset" appears on the display.
- 2) Use the UP ( ) and DOWN ( ) keys to select one of the following configurations:
  - Default preset (\*)
  - User preset 1
  - User preset 2
  - User Preset 3
- 3) Press 🛞 "Load preset X" appears on the display.
- 4) Use the UP ( and DOWN keys to select:
  - Load preset X to recall a previously stored configuration.
  - Save to preset X to store the current configuration.
  - a confirmation message (Are you sure?) appears on the display.
- 5) Select YES to confirm the selection or NO to keep the current setting and return to the next higher level.
- (\*) DEFAULT PRESET

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

1) Press (K), a confirmation message (Are you sure?) appears on the display. 2) Select YES to confirm the selction or NO to keep current setting.

OPTION	DEFAULT
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%
Display	On
Silent Mode	Standard
P/T Speed	Fast
Dimmer Curve	Curve 1
RGB Gamma	Gamma 1.5
Halogen Mode	Halogen Off

# **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 (0k) - 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 (iv) 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.

# LED ENERGY TOT

Lets you view total LED working hours.

1) Press 🐵 - to display total and partial Watts/hour: Total

Total LED working hours from construction to date. Partial

LED working hours from last reset to date.

- 2) Press (K) to reset the partial counter. A confirmation appears on the screen (Are you sure?)
- Select YES to reset the partial counter or NO to keep the current setting and open the next 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 (Scheda Pan / Tilt) 1: Ld - Kxx (Scheda LED)

### **BOARD DIAGNOSTIC**

Used for displaying the status error of each board installed in the projector: 0: PT-3f (Scheda Pan / Tilt) 1: Ld - Kxx (Scheda LED)

### 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: PwrSp (fan PSU) Head (fan head)

### **NETWORK PARAMS**

Allows the "Network" parameters of the projector to be displayed or: **IP address:** Internet Protocol address (two projectors must not have the same IP address) **IP mask: 255.0.00** 

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

# MANUAL CONTROL

### 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  $\bigcirc$  and DOWN  $\bigcirc$  keys to select the required channel:
- 3) Press <sup>(R)</sup> and use the UP <sup>(A)</sup> and DOWN <sup>(</sup>→ keys to select the required DMX level (value between 0 and 255).
- 4) Press LEFT () to return to the top menu level.

# **TEST MENU**

### TEST

- Allows you to check the proper functioning of effects.
- 1) Press (b) to return to the top menu level.
- 2) Use the UP  $\bigcirc$  and DOWN  $\bigcirc$  keys to select the required test.
- 3) Press (1) to confirm the selection or LEFT (1) to keep current settings. Test sequence:

Pan - Tilt effects (Pan & Tilt) Colour effects

Zoom

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.
- 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.
- Press 
   <sup>(K)</sup> and use the RIGHT 
   <sup>(K)</sup>, UP 
   <sup>(K)</sup> and DOWN 
   <sup>(K)</sup> 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.



# Battery removal - Fig. 9



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.

# MAINTENANCE



Opening the covers - Fig. 10



### Removing/Assembling the lens unit - Fig. 11

NB: Apply Loctite 222 (p/n COL002) to the threads of the 3 screws (1) before tightening them. A torque of 0.3N is recommended in order to avoid damaging the zoom movement actuators.



### Replacing the line actuator - Fig. 12

**NB**: It is highly recommended to use the DIM002/001 (1) template whenever it is necessary to replace one of the three Zoom movement line actuators. DIM002/001 ensures the actuator group is centred correctly on the lens plate before tightening the 2 screws (2) that fasten the actuator in place.

# **OPTIONAL ACCESSORIES**

# A.LEDA WASH K5



**Cover** - Fig. 13 C61452 - Transparent cover C61453 - Frosted cover



Transparent mask - Fig. 14

# A.LEDA WASH K10







Transparent mask - Fig. 16

A.LEDA WASH K20







Transparent mask - Fig. 18

# **TECHNICAL INFORMATION**





380

(14.96")

160 **.** (6.30")







#### Power supplies available 100-240V 50/60Hz

### Input power

- •K20 750VA •K10 - 450VA
- •K5 170VA

# Max 1800VA (with 11 A.leda Wash K5 connected in parallel)

### Total output

K5 - Max 2100 lumens K10 - Max 5500 lumens K20 - Max 10500 lumens

#### LED source

LED Osram Ostar RGBW - 15W Average LED life: 50.000 h

#### Motors

5 (k10 & k20), 2 (k5) stepper motors, operating with microsteps, totally microprocessor controlled.

### Cooling

- High efficiency die-cast aluminium
- Forced ventilation

### Inputs

DMX 512

### Working position

Functioning in any position.

### 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 = 270°

#### IP20 protection rating

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

### **CE Marking**

- Complies with the following European Directives
- 2006/95/EC (LVD)
- 2004/108/EC (EMC)
- 2011/65/EU (RoHS).

### Weights

- K5: 7.55kg
- •K10: 14.10 kg
- K20: 19.30 kg

# **CAUSE AND SOLUTION OF PROBLEMS**

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

# **CHANNEL FUNCTION**

EXTENDED

# A.LEDA WASH K5

# STANDARD

# SHAPES

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Shape Selection
21	Shape Speed
22	Shape Fade
23	Shape R
24	Shape G
25	Shape B
26	Shape W
27	Shape Dimmer
28	Background Dimmer
29	Shape Transition
30	Shape Offset

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Red LED 1
21	Green LED 1
22	Blue LED 1
23	Red LED 2
24	Green LED 2
25	Blue LED 2
26	Red LED 3
27	Green LED 3
28	Blue LED 3
29	Red LED 4
30	Green LED 4
31	Blue LED 4
32	Red LED 5
33	Green LED 5
34	Blue LED 5
35	Red LED 6
36	Green LED 6
37	Blue LED 6
38	Red LED 7
39	Green LED 7
40	Blue LED 7

# EXTENDED RGBW

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Red LED 1
21	Green LED 1
22	Blue LED 1
23	White LED 1
24	Red LED 2
25	Green LED 2
26	Blue LED 2
27	White LED 2
28	Red LED 3
29	Green LED 3
30	Blue LED 3
31	White LED 3
32	Red LED 4
33	Green LED 4
34	Blue LED 4
35	White LED 4
36	Red LED 5
37	Green LED 5
38	Blue LED 5
39	White LED 5
40	Red LED 6
41	Green LED 6
42	Blue LED 6
43	White LED 6
44	Red LED 7
45	Green LED 7
46	Blue LED 7
47	White LED 7
	Continue →

# A.LEDA WASH K10

# STANDARD

# SHAPES

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Shape Selection
22	Shape Speed
23	Shape Fade
24	Shape R
25	Shape G
26	Shape B
27	Shape W
28	Shape Dimmer
29	Background Dimmer
30	Shape Transition
31	Shape Offset

# EXTENDED

CHAN- Nel	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Red LED 1
22	Green LED 1
23	Blue LED 1
	Red LED
	Green LED
	Blue LED
75	Red LED 19
76	Green LED 19
77	Blue LED 19

# **EXTENDED RGBW**

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Red LED 1
22	Green LED 1
23	Blue LED 1
24	White LED 1
	Red LED
	Green LED
	Blue LED
	White LED
93	Red LED 19
94	Green LED 19
95	Blue LED 19
96	White LED 19

# A.LEDA WASH K20

# STANDARD

# SHAPES

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Shape Selection
22	Shape Speed
23	Shape Fade
24	Shape R
25	Shape G
26	Shape B
27	Shape W
28	Shape Dimmer
29	Background Dimmer
30	Shape Transition
31	Shape Offset

# EXTENDED

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Red LED 1
22	Green LED 1
23	Blue LED 1
	Red LED
	Green LED
	Blue LED
129	Red LED 37
130	Green LED 37
131	Blue LED 37

# **EXTENDED RGBW**

CHAN- NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	Linear CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Red LED 1
22	Green LED 1
23	Blue LED 1
24	White LED 1
	Red LED
	Green LED
	Blue LED
	White LED
165	Red LED 37
166	Green LED 37
167	Blue LED 37
168	White LED 37

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



DIT	LEE		BIT VALUE			
BH	REFERENCE	COLOUR	R	G	В	W
209-255	-	White	255	235	66	255
208	-	Dirty White	255	255	122	255
207	197	Alice Blue	128	255	143	0
191-206	181	Congo Blue	77	0	255	0
184-190	174	Dark Steel Blue	181	255	95	0
180-183	170	Deen lavender	255	168	64	0
179	169	Lilac Tint	255	199	49	0
175-178	165	Davlight Blue	82	21/	00	0
174	164	Elamo Pod	255	16	30	0
170 170	162	Pactard Ambor	255	101	2	0
160 171	159		200	04	20	0
160 167	150	Deep Orange Bala Cold	222	171	0	0
102-107	152	Fale Gold	200	1/1	20	0
157-101	147	Apricol Bright Blue	200	143	13	0
151-156	141	Bright Blue	0	255	87	0
149-150	139	Primary Green	//	255	0	0
147-148	137	Special lavender	219	197	79	0
146	136	Pale Lavender	255	197	61	0
145	135	Deep Golden Amber	255	58	0	0
142-144	132	Medium Blue	0	255	143	0
138-141	128	Bright Pink	255	53	36	0
136-137	126	Mauve	227	41	56	0
134-135	124	Dark Green	84	255	13	0
131-133	121	Leaf Green	206	255	0	0
129-130	119	Dark Blue	0	186	255	0
128	118	Light Blue	74	255	82	0
127	117	Steel Blue	206	255	56	0
126	116	Med Blu Green	206	255	56	0
125	115	Peacock Blue	51	255	51	0
123-124	113	Magenta	255	20	15	0
121-122	111	Dark Pink	255	109	33	0
120	110	Middle Bose	217	130	28	0
110	109	Light Salmon	255	138	20	0
110	109	Eight Sainon	255	1/0	22	0
117	100		200	140	20	0
115 110	107	Light Rose	200	141	31	0
011-011	105	Orange Daara Arrelaar	200	122	0	0
114	104	Deep Amber	255	100	0	0
113	103	Straw	230	160	0	69
112	102	Light Amber	237	163	0	0
110-111	100	Spring Yellow	245	202	0	0
100-109	90	Dark yellow green	41	219	0	0
89-99	79	Just Blue	0	194	130	0
78-88	68	Sky Blue	0	255	135	0
68-77	58	Lavender	243	117	133	199
62-67	52	Light Lavender	243	117	39	197
49-61	39	Pink Carnation	255	107	0	130
46-48	36	Medium Pink	255	87	0	107
45	35	Light Pink	255	112	0	141
35-44	25	Sunrise Red	255	83	2	0
32-34	22	Dark Amber	255	65	0	0
31	21	Gold Amber	255	100	0	0
30	20	Medium Amber	255	135	0	0
29	19	Fire	255	56	0	0
27-28	17	Surprise Peach	198	114	9	0
23-26	13	Straw Tint	152	115	9	0
20-22	10	Medium Yellow	156	126	0	0
19	-	Black	0	0	0	0
18	_	White 5000 K	255	137	0	193
17	_	White 3700 K	255	201	25	255
16		White 7000 K	216	237	61	255
15		Maganto	255		255	~ ~
GI AF	-	Vallow	200	0	200	0
14	-	Cuan	200	200	055	0
13	-	Oyan		255	255	0
12	-	DIUE	0	0	255	U
11	-	Green	0	255	0	0
10	-	Red	255	0	0	0
0-9	-	Macro color OFF	-	-	-	-





### • PAN

Operation with option InvertPan  $\,\,\hat{\,\,}\,\,$  Off

(Tilt conventionally represented at 14% and option Invert Tilt \$ Off)



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



### • PAN FINE

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



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



#### • TILT

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



0-255 Bit: 1.45 sec (K20) 0-255 Bit: 0.87 sec (K10) 0-255 Bit: 0.80 sec (K5)

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

BIT

255

n



0-255 Bit: 1.45 sec (K20) 0-255 Bit: 0.87 sec (K10) 0-255 Bit: 0.80 sec (K5)

#### • TILT FINE

Operation with option InvertPan  $\,\,\hat{\,\,}\,\,$  Off

(Tilt conventionally represented at 14% and option Invert Tilt  $\ \ \diamond \ \ Off)$ 



BIT

255

0

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



### • FUNCTION

BIT	EFFECT	
103 – 255	Reserved	
98 - 102	Halogen Lamp Simulation, type 5 (2500 W)	Linear CTO @ 0
93 - 97	Halogen Lamp Simulation, type 4 (2000 W)	Linear CTO @ 0
88 - 92	Halogen Lamp Simulation, type 3 (1200 W)	Linear CTO @ 0
83 - 87	Halogen Lamp Simulation, type 2 (1000 W)	Linear CTO @ 0
78 – 82	Halogen Lamp Simulation, type 1 (750W)	Linear CTO @ 0
73 – 77	Halogen Lamp Simulation OFF (Default)	
68 – 72	RGBW Gamma curve 3 – gamma = 2.0	
63 - 67	RGBW Gamma curve 2 – gamma = 1.5	
58 - 62	RGBW Gamma curve 1 – gamma = 1.0	
52 - 57	Dimmer Curve 4	
48 – 52	Dimmer Curve 3	
43 – 47	Dimmer Curve 2	
38 – 42	Dimmer Curve 1	
24 – 37	Pan Tilt Normal	
12 – 24	Pan Tilt Fast (Default)	
0 - 11	Function off - rearmed	
	1	

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

Last selected function still active. Enable setting a new function.

DIMMER CURVE 1 - GAMMA 1 LINEAR











#### RESET

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 ZOOM RESET
	Effects reset is activated passing throug the unused range and staying 5 seconds in Effects reset levels.
26 25	ZOOM RESET
0	UNUSED RANGE

#### • ZOOM



• RED LED 1 to...

GREEN LED 1 to... BLUE LED 1 to... WHITE LED 1 to...



SELECTION	MACRO NAME	K5	K10	K20	DESC
0-7	Macro OFF	Yes	Yes	Yes	
8	Ring 1	Yes	Yes	Yes	Statio
9	Ring 2	Yes	Yes	Yes	The rir
10	Ring 3	No	Yes	Yes	use
11	Bing 4	No	No	Yes	macr

# SHAPE SELECTION - SHAPE SPEED - SHAPE OFFSET

SHAPE SELECTION	MACRO NAME	On K5	On K10	On K20	DESCRIPTION	Random colors *1	SHAPE SPEED	SHAPE OFFSET
0-7	Macro OFF	Yes	Yes	Yes		N.a.	N.a.	N.a.
8	Ring 1	Yes	Yes	Yes	Static effects.	N.a.	N.a.	N.a.
9	Ring 2	Yes	Yes	Yes	The ring or rings	i		
10	Ring 3	No	Yes	Yes	used by the			
11	Ring 4	No	No	Yes	macro are tur-			
12	Ring 1 + 2	Yes	Yes	Yes	ned-on with the			
13	Ring 1 + 3	No	Yes	Yes	foreground			
14	Ring 1 + 4	No	No	Yes				
15	Ring Opening (Closing)	Yes	Yes	Yes		Yes	0-126 = max to min speed,	
16	Ring Opening (Closing) Filled	Yes	Yes	Yes		Yes	Closing effect 127-128 = STOP 129-255 = min to max speed, Opening effect	
17	Ring Open/Close (close/open)	Yes	Yes	Yes		Yes	0-126 = max to min speed, Start closed	0-9 → continuous 10-255 → random distribution of flash from 2 to 20 fixtures
18	Ring Open/Close (close/open) Filled	Yes	Yes	Yes		Yes	127-128 = STOP 129-255 = min to max speed, Start opened	
19	Ring with variable radius	Yes	Yes	Yes		N.a.	0-255 = radius:	0-255 → angle offset from 0 to 360°
20	Ring with variable radius, filled.	Yes	Yes	Yes		N.a.	0 = minimum 255 = maximum	N.a.
21	Random pixels distribuited on many fixtures	Yes	Yes	Yes		Yes	0-126 = max to min speed, Instant-on + fadeout.	0-255 → select random distribution from 2 up to 20 fixtures
22	Random pixels with variable den- sity and speed	Yes	Yes	Yes		Yes	127-128 = STOP. 129-255 = min to max speed, FadeIn + FadeOut. Fade or snap depending on fade channel.	0-255 → select pixel density
23	Rainbow 1, variable speed.	Yes	Yes	Yes		N.a.	0-126 = max to min speed, c.cw rotation 127-128 = STOP 129-255 = min to max speed, cw rotationt	0-255 → angle offset from 0 to 360°
24	Rainbow 2, fixed speed with variable color offset.	Yes	Yes	Yes		N.a.	0-126 = c.cw rotation 127-128 = STOP 129-255 = cw rotationt The value 0-126 or 129-255 change the rainbow angle off- set (the orange starting angle).	N.a.
25	Fan (3 arms)	Yes	Yes	Yes		N.a.	0-126 = max to min speed,	0-255 → angle offset
26	Bar (2 arms)	Yes	Yes	Yes			c.cw rotation	from 0 to 360°
27	Half moon	Yes	Yes	Yes			127-128 = STOP	
28	Triangle	Yes	Yes	Yes			129-255 = min to max speed,	
29	Two rotating bars of different colors	Yes	Yes	Yes			cw rotationt"	
30	Two rotating arcs of different colors	No	Yes	Yes				
31	Two rotating arcs of different colors and direction	No	Yes	Yes				
32-255	Reserved					N.a.	N.a.	N.a.

\*1: Random colors activation with foreground R,G,B,W = 0

### Static Rings

DMX channel value: from 8 to 14.

The ring or rings used by the macro are turned on with the foreground colour (Shape Red+Shape Green+Shape blue+Shape White). Avaliable combinations: Ring 1 On, Ring 2 On, Ring 3 On (Aleda K10, K20 only), Ring 4 On (Aleda K20 only), Ring 1+2 On, Ring 1+3 On (Aleda K10, K20 only), Ring 1+4 On (Aleda K20 only). Dynamic Rings

DMX channel

### **Dynamic Rings**

DMX channel value: From 15 to 18.

The rings used by the macro are turned on sequentially, simulating an opening , closing or both.

The Shape Speed channel increases the speed from 126 (min speed) to 0 (max speed) for the closing and closing/opening effects and from 129 (min speed) to 255 (max speed) for the opening and opening/closing effects. With DMX value = 127 or 128 the macro stays still.

The Shape Offset channel defines the macro effect distribution over a number of fixtures (affects also the behavior of a single fixture)

Dmx values from 0 to 9: continous distribution;

Dmx values from 10 to 255 random distribution of flash from 2 to 20 fixtures.

If foreground colors are all set to 0, the Random-Colors mode is activated.

The color used by the macro changes at every restart.

### Rings with variable radius

DMX channel value: 19 - 20. The Shape Speed channel defines the ring radius: 0 = min, 255 = max. Random pixels DMX

### **Random pixels**

DMX channel value: 21 – 22.

Leds are turned on and off randomly.

The Shape Speed channel increases the speed and defines the fade effect for the leds: from 126 (min speed) to 0(max speed) with a Instant-on/ fade-out led effect, and from 129 (min speed) to 255 (max speed) with a fade-in + fade-out led effect. At a DMX value of 127 and 128 the macro stays still.

For macro 21 the Shape Offset channel defines leds random distribution from 0 (2 fixtures) to 255 over a set of fixtures (20 fixtures).

For macro 22 the Shape Offset channel defines pixels density from 0 (min density) to 255 (max density).

If foreground colors are all set to 0 the Random-Colors mode is activated.

The Shape Smoothing channel adjusts the fading effect applied to the macro movement

### Rainbows

DMX channel value: 23 - 24 .

It simulates a rainbow effect.

The Shape Speed channel increases the speed and defines the rotation : from 126 (min speed) to 0 (max speed) counter clock wise rotation and from 129 (min speed) to 255 (max speed) clock wise rotation. With DMX value 127 or 128 the macro stays still.

For the macro 24 (Rainbow with fixed speed) the Shape Speed channel also defines angle offset (the orange sector starting angle).

### **Rotating shapes**

DMX channel value: from 25 to 31.

Shapes avaliable: Fan (3 arms), Bar (2 arms), Half Moon, Triangle, Two rotating bars of different colors, Two rotating arcs of different colors, Two rotating arcs of different colors and direction.

The Shape Speed channel increases the speed and defines the rotation : from 126 (min speed) to 0 (max speed) counter clock wise rotation and from 129 (min speed) to 255 (max speed) clock wise rotation. With DMX value 127 or 128 the macro stays still.

The Shape Offset channel defines the angle offset from 0 (0 degree) to 255 (360 degree).

### • SHAPE FADE



# SHAPE RGBW SHAPE DIMMER BACKROUND DIMMER



### • SHAPE TRANSITION



# A.LEDA WASH K5

# LED reference number for pixel mapping TILT: channel 16@ bit 200



# A.LEDA WASH K10

LED reference number for pixel mapping TILT: channel 16 @ bit 200



# A.LEDA WASH K20

# LED reference number for pixel mapping TILT: channel 16 @ bit 200

