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

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*TOP PERFORMANCE*
*MOVING HEAD*
*LED-WASHES*

K20  (code C61410)          K10  (code C61405)          K5  (code C61401)

## A WINNING "TEAM" AT THE DESIGNER'S SERVICE

A.LEDA WASH is a range of moving-head fixtures with LED light sources consisting of three power versions, all featuring very fast movements and excellent color quality. They differ in the number of LEDs: the A.LEDA Wash K20 is the top version with 37 LEDs; the A.LEDA Wash K10 is fitted with 19 LEDs; the A.LEDA Wash K5 has 7 LEDs.



Luke Bryan - 2013 US Tour



2013 YUNA Award - Ukraine



Jennifer Lopez - 2012  World Tour

## GREAT QUALITY COLORS

The A.LEDA fixtures use powerful 15 W Osram Ostar RGBW LEDs. The primary colors (royal blue, true green and deep red) were carefully selected to get the best color range possible. As can be seen from the CIE 1931 diagram, the color gamut the A.LEDA achieve is very wide.

Each basic color is adjustable with 16 bit resolution, which allows users to obtain finer shades with very precise control.

The additional white LED helps increase lumen/watt efficiency and improves the color quality of the pastel shades. The total resolution is 48 bits and exceeds the human eye's capacity to distinguish colors.

Sophisticated control software automatically compensates for changes in the light emitted by LEDs, caused by working temperature and power. Thanks to this software, the color and intensity of the beam produced by the light is stable in all working conditions.



The points inside the triangle are the colors A.LEDA are able to
reproduce: the triangle covers a very wide color range
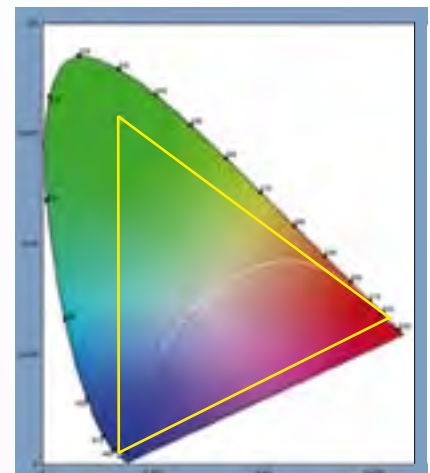
## TRANSPARENT FRONT MASK

(K20: code C61457 - K10: code C61454 - K5: code C61451)

The standard A.LEDA front mask is black to enhance the effect of each individually controlled LED. However a transparent mask (optional) is available that distributes the light evenly on the LED clusters, enhancing the wash effect. It is a useful accessory when you want the audience to see a single uniformly colored beam, instead of individual pixels.

## PRECISELY THE LIGHT YOU WANT

The "TC" function is an exclusive A.LEDA feature that emulates the behaviour of a lamp with any color temperature between 8,000 and 2,400 K. Just set the chosen color temperature on a dedicated control channel and, from that moment on, the light will behave as if it had a light source with that color temperature, not only in the case of white light, but also when the beam is colored.

This function allows users to add the maximum amount of white to each selected color with three benefits: maximum energy efficiency, better color rendering (CRI) and high brightness for each color selected.

## SMALL, ERGONOMIC AND MODULAR

The A.LEDA fixtures are made of fibreglass and are the result of expert engineering in the fields of electronics, mechanics, optics and heat dissipation. The A.LEDA are among the most compact, lightweight and durable LED luminaires on the market.

The electronics are completely modular. The same small interchangeable circuit boards are used in all three versions. The system architecture is simple and straightforward: each driver board drives one LED board. This makes maintenance simple and spare parts management very cost effective.

The A.LEDA also enjoy the same mechanical quality as all Clay Paky Alpha luminaires.

They are durable, fast, noiseless, reliable and simple to repair.

The fixtures may be supplied with white, chrome, gold or custom color body finishing on request.

chrome-plated    gold    white
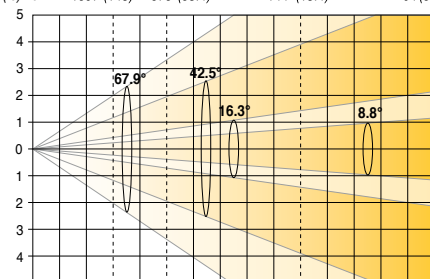
## CONSISTENT QUALITY RIGHT FROM THE LEDs

The LEDs used in the A.LEDA are selected using the highest resolution of 5 nanometres, which ensures total color uniformity. When the fixtures are tested, the light intensity of each color (R, G, B and W) is calibrated according to standard parameters, to compensate for any unevenness. All this ensures that the quality of light emitted by different lights is absolutely uniform.

### A.LEDA WASH K20

**Minimum Zoom with WHITE, RED, GREEN & BLUE (8.8° 50% - 16.3° 10%)**
**Maximum Zoom with WHITE, RED, GREEN & BLUE (42.5° 50% - 67.9° 10%)**

| | | | | | |
|---|---|---|---|---|---|
| Minimum Zoom lux *(fc)* | 0 | 40139 *(3729)* | 14450 *(1342)* | 3613 *(336)* | 1606 *(149)* |
| Maximum Zoom lux *(fc)* | 0 | 1597 *(148)* | 575 *(53.4)* | 144 *(13.4)* | 64 *(5.94)* |

| | | | | | |
|---|---|---|---|---|---|
| Distance m *(ft in)* | 0 | 3 *(9'10")* | 5 *(16'5")* | 10 *(32'10")* | 15 *(49'3")* |
| Minimum Zoom Diameter 50% m *(ft in)* | 0 | 0.46 *(1'6")* | 0.77 *(2'6")* | 1.54 *(5'1")* | 2.32 *(7'7")* |
| Minimum Zoom Diameter 10% m *(ft in)* | 0 | 0.87 *(2'10")* | 1.45 *(4'9")* | 2.90 *(9'6")* | 4.34 *(14'3")* |
| Maximum Zoom Diameter 50% m *(ft in)* | 0 | 2.32 *(7'7")* | 3.87 *(12'8")* | 7.74 *(25'5")* | 11.60 *(38'1")* |
| Maximum Zoom Diameter 10% m *(ft in)* | 0 | 4.04 *(13'3")* | 6.73 *(22'1")* | 13.47 *(44'2")* | 20.20 *(66'3")* |

## COMPLETELY CONTROLLABLE LIGHT BEAM

The A.LEDA optical system includes a parabolic collimator and a diffusion filter with grating consisting of microlenses that mix the R-G-B-W colors so that the light beam is totally uniform.

The K10 and K20 versions also feature a zoom that ranges from 14° to 70° (8° to 55° at 50% maximum illumination). The beam angle is adjusted using a lens that overlaps the collimator in minimum zoom position, resulting in a candela/lumen efficiency with no equal in the industry. An optional frost diffusion lens provides a slightly wider aperture while softening the beam.
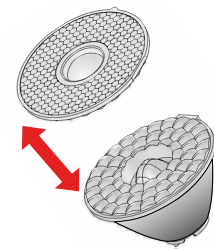
High quality dimming is one of the A.LEDA line's top features. The most suitable dimming curve can be selected among the four available. They are all accurate and smooth, without the small steps that characterize many LED lights when fading out.



14° - 70° linear zoom
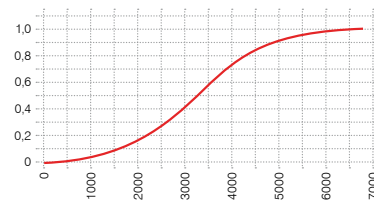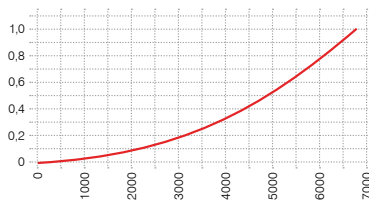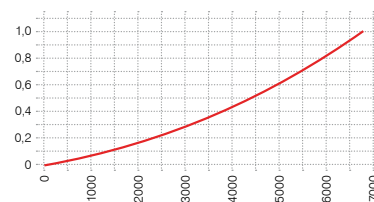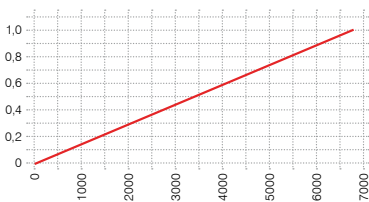


Four dimmer curves can be selected at your choice



The parabolic collimator, diffusion filter with microlenses, and moving zoom lens



## MUCH MORE THAN JUST WASH-LIGHTS

Besides being excellent wash-lights, the A.LEDA can be used to create visual effects. They are unique in allowing users to control the color of each LED individually. In this way, the LED cluster becomes a drawing board, or can be used in pixel mapping mode.

This makes an infinite number of creative effects possible, which may be programmed on a lighting console or through a media server that draws and transfers still images or videos using the Art-Net protocol.

## AN ENGINE FOR ENDLESS EFFECTS

The easy-to-use A.LEDA effects engine makes programming unique visual effects a breeze. Simply select from a wide range of designer created base effects and then modify them to suit your artistic needs. The variable fade, intensity, speed, foreground and background color parameters can all be modified to create unique custom effects of your own in seconds.
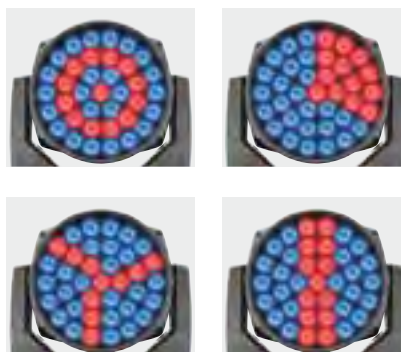


## "ONE & ALL" FUNCTION

There are three ways of controlling A.LEDA fixtures. "Standard" mode makes the A.LEDA perform as a wash-light, as all LEDs are managed as a single light source. "Shape" mode makes using the A.LEDA's graphical functions easier and provides access to the library of built-in patterns (macros), which the operator can customize. "Full" mode offers full control over every light parameter, including the color of each single LED; this is the most demanding mode and is needed for pixel mapping.

# A.LEDA WASH CC / TW / W

For those applications where a simpler, yet powerful washlight is required, Clay Paky developed a new fixture named **A.LEDA CC (Color Changer)**, featuring R-G-B-White color mixing.

When color changing is not required, the new Clay Paky **A.LEDA TW (Tunable White)** can be used, providing tunable color temperature through additive mixing, ranging from 2600 to 7500 K.

Finally, for the simplest applications, Clay Paky has created **A.LEDA W (White)**, a moving head LED flood-light generating a fixed 7500 K white light.

A.leda CC, TW and W are equipped with transparent front mask as standard.

## MAIN FEATURES

- **A.LEDA CC**: Clay Paky quality for an excellent washlight with enhanced color and color temperature control
- **A.LEDA TW**: high quality white light, with smoothly tunable color temperature; tungsten lamp emulation
- **A.LEDA W**: punchy moving head floodlight, with even light diffusion

Codes: see table on the back cover

## ACCESSORIES

| | |
|---|---|
| Omega for fixing clamps (standard) | **code 183102/805** |
| Clamps - 48-51mm, max 300 Kg (optional) | **code C21070** |
| Safety Cable - Ø 4mm, lenght 680mm (optional) | **code 105041/003** |
| Transparent front mask for A.leda Wash K20 | **code C61457** |
| Dust filter for A.leda Wash K20 \| CC \| TW \| W | **code C61458** |
| Frost diffusion lens for A.leda Wash K20 \| CC \| TW \| W | **code C61459** |
| Transparent front mask for A.leda Wash K10 | **code C61454** |
| Dust filter for A.leda Wash K10 \| CC \| TW \| W | **code C61455** |
| Frost diffusion lens for A.leda Wash K10 \| CC \| TW \| W | **code C61456** |
| Transparent front mask for A.leda Wash K5 | **code C61451** |
| Dust filter for A.leda Wash K5 | **code C61452** |
| Frost diffusion lens for A.leda Wash K5 | **code C61453** |

## FOAM SHELL

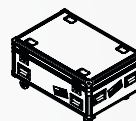| | |
|---|---|
| Foam Shell for A.leda Wash K20 \| CC \| TW \| W | **code F21227** |
| Foam Shell for A.leda Wash K10 \| CC \| TW \| W | **code F21226** |
| Foam Shell for A.leda Wash K5 | **code F21225** |

## ROXTER-CASE
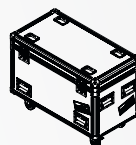
Roxter-case (+2 foam shells)
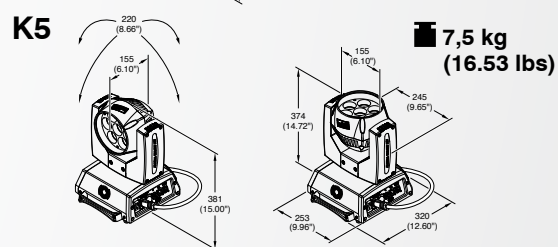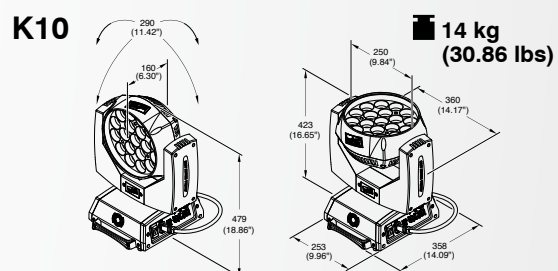for 2 A.leda Wash K20 | CC | TW | W
**code F21242**

Roxter-case (+4 foam shells)
for 4 A.leda Wash K10 | CC | TW | W
**code F21241**

Roxter-case (+6 foam shells)
for 6 A.leda Wash K5
**code F21240**

## WEIGHT AND DIMENSIONS (mm/inches)

**K20**
380 (14.96") · 160 (6.30") · 476 (18.74") · 584 (22.99") · 360 (14.17") · 460 (18.11") · 330 (12.99") · 395 (15.55")
**19 kg (41.9 lbs)**

**K10**
290 (11.42") · 160 (6.30") · 423 (16.65") · 479 (18.86") · 253 (9.96") · 358 (14.09") · 250 (9.84") · 360 (14.17")
**14 kg (30.86 lbs)**

**K5**
220 (8.66") · 155 (6.10") · 374 (14.72") · 381 (15.00") · 253 (9.96") · 320 (12.60") · 155 (6.10") · 245 (9.65")
**7,5 kg (16.53 lbs)**
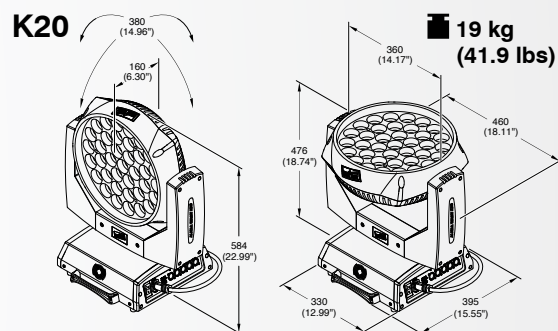
| | PAN 540° | | TILT 270° | | 14°-70° ZOOM | |
|---|---|---|---|---|---|---|
| **A.LEDA WASH K20** | Position | Speed | Position | Speed | Position | Speed |
| | 0>100% | 2.654 sec | 0>100% | 1.447 sec | 0>100% | 0.680 sec |
| **A.LEDA WASH K10** | Position | Speed | Position | Speed | Position | Speed |
| | 0>100% | 2.012 sec | 0>100% | 0.865 sec | 0>100% | 0.680 sec |
| **A.LEDA WASH K5** | Position | Speed | Position | Speed | | |
| | 0>100% | 1.405 sec | 0>100% | 0.803 sec | | |

# COMPARISON TABLE

| | K20 | | | | K10 | | | | K5 |
|---|---|---|---|---|---|---|---|---|---|
| | A.LEDA WASH | A.LEDA "CC" (Color Changer) | A.LEDA "TW" (Tunable White) | A.LEDA "W" (White) | A.LEDA WASH | A.LEDA "CC" (Color Changer) | A.LEDA "TW" (Tunable White) | A.LEDA "W" (White) | A.LEDA WASH |
| Code | C61410 | C61413 | C61411 | C61412 | C61405 | C61408 | C61406 | C61407 | C61401 |
| Power supplies | 100-240V (50/60 Hz) | 100-240V (50/60 Hz) | 100-240V (50/60 Hz) | 100-240V (50/60 Hz) | 100-240V (50/60 Hz) | 100-240V (50/60 Hz) | 100-240V (50/60 Hz) | 100-240V (50/60 Hz) | 100-240V (50/60 Hz) |
| Source Type | RGBW | RGBW | White 2600 and 7500 K | White 7500 K | RGBW | RGBW | White 2600 and 7500 K | White 7500 K | RGBW |
| LED Nominal Wattage | 15W | 15W | 15W | 15W | 15W | 15W | 15W | 15W | 15W |
| Number of LEDs | 37 | 37 | 37 | 37 | 19 | 19 | 19 | 19 | 7 |
| Rated LED light output (lumens) | 10,500 | 10,900 | 15,000 | 21,700 | 5,500 | 5,300 | 6,800 | 10,500 | 2,100 |
| Total power consumption (230V/50Hz) | 750VA | 750VA | 750VA | 750VA | 450VA | 450VA | 450VA | 450VA | 170VA |
| Individual LED Control | • | | | | • | | | | • |
| Washlight Mode | • | • | • | • | • | • | • | • | • |
| Zoom Range (@ 10% peak) | 16°- 68° | 16°- 68° | 16°- 68° | 16°- 68° | 16°- 68° | 16°- 68° | 16°- 68° | 16°- 68° | 13° (fixed) |
| Zoom Range (@ 50% peak) | 9°- 43° | 9°- 43° | 9°- 43° | 9°- 43° | 9°- 43° | 9°- 43° | 9°- 43° | 9°- 43° | 7° (fixed) |
| RGBW additive color mixing | • | • | | | • | • | | | • |
| Color temperature control | • | • | • | | • | • | • | | |
| Transparent mask | •(optional) | •(standard) | •(standard) | •(standard) | •(optional) | •(standard) | •(standard) | •(standard) | •(optional) |
| Frost diffusion lens | •(optional) | •(optional) | •(optional) | •(optional) | •(optional) | •(optional) | •(optional) | •(optional) | •(optional) |
| Dust filter | •(optional) | •(standard) | •(standard) | •(standard) | •(optional) | •(standard) | •(standard) | •(standard) | •(optional) |
| 0-100% dimmer on dedicated channel | • | • | • | • | • | • | • | • | • |
| Adjustable stop/strobe effect | • | • | • | • | • | • | • | • | • |
| 540° PAN; 270° TILT | • | • | • | • | • | • | • | • | • |
| Color and effect macros | • | •(only color) | | | • | •(only color) | | | • |
| Macro customization parameters | • | | | | • | | | | • |
| Firmware transfer from one light to another | • | • | • | • | • | • | • | • | • |
| Ethernet (Art-Net protocol) | • | | | | • | | | | • |
| Pixel Patterning Macros with Enhanced Control | • | | | | • | | | | • |
| White CT Emulation 2500 - 8000 K | • | • | • | | • | • | • | | • |
| RGB auto-tuning to Lamp CT Emulation | • | • | | | • | • | | | • |
| Tungsten Lamp Emulation | • | • | • | | • | • | • | | • |
| High CRI (>94) | | | • | | | | • | | |
| DMX signal connection | 3 and 5-pin XLR | 5-pin XLR | 5-pin XLR | 5-pin XLR | 5-pin XLR | 5-pin XLR | 5-pin XLR | 5-pin XLR | 5-pin XLR |
| Control channels | 20 | 20 | 15 | 10 | 20 | 20 | 15 | 10 | 19 |
| Control channels in RGB(W) pixel mapping mode | 111 (148) | | | | 57 (76) | | | | 21 (28) |
| Certification | cETLus | cETLus | cETLus | cETLus | cETLus | cETLus | cETLus | cETLus | cETLus |
| CE Marking | • | • | • | • | • | • | • | • | • |
| Weight: Kg (lbs) | 19 (41.9) | 19 (41.9) | 19 (41.9) | 19 (41.9) | 14 (30.86) | 14 (30.86) | 14 (30.86) | 14 (30.86) | 7.5 (16.53) |
| Dimensions LxWxH (mm) | 330x395x476 12.99x15.55x18.74 | 330x395x476 12.99x15.55x18.74 | 330x395x476 12.99x15.55x18.74 | 330x395x476 12.99x15.55x18.74 | 253x358x423 9.96x14.09x16.65 | 253x358x423 9.96x14.09x16.65 | 253x358x423 9.96x14.09x16.65 | 253x358x423 9.96x14.09x16.65 | 253x320x374 9.96x12.60x14.72 |

UNI EN ISO 9001