

# DL4F Wash™

This is the perfect companion to the ROBIN DL4S Profile, the new ROBIN DL4F Wash is based on the same RGBW LED module with improved brightness and with specifically modified color mixing and dimming for extra smooth, stepless operation especially at minimum brightness levels.

**Light source**

480 W RGBW LED engine

**Light output**

5.160 lm

**Zoom range**

5.5°-60° (75° with frost)

**Effects**

internal barndoor module



To magnify the already perfectly smooth colours, fades and dimming, the DL4F features innovative LED driving system for improved, extremely high definition dimming curve for all R, G, B, W colours, with 18 bit resolution. With a perfectly smooth output via the front Fresnel lens, this fixture has been optimized for those wanting an even light output with no shadows (RGB breakups and shadows are not present even when on closely positioned trussing or other objects.) Mechanical features include a newly designed linear motorized zoom of 5.5° - 60° and a diffusion filter for extension of the zoom up to 75°. The fixture uses a internal Barndoor module for creating different shapes. The module consists of four individually controllable blades and is rotatable by plus or minus 90 degrees. Advanced software features include RGBW or CMY colour mixing, a set of calibrated whites, CTO, Tungsten lamp emulation (amber shift) and more.

# Technical Specification

## Source

- Light source type: 480 W RGBW LED engine
- LED life expectancy: min. 20 000 hours
- Control: Automatic and remote on/off
- Light source warranty: 3 years or 20.000 hours

## Optical system

- Robe's proprietary optical design
- High - efficiency zoom optical system, ratio 11:1
- Zoom range: 5.5° - 60° (75° with frost)
- Fixture total lumen output: 5.160 lm
- Illuminance: 19.220 lx @ 5 m

## Dynamic Effects and Features

- Colour mixing mode RGBW or CMY
- Variable CTO: 2.700K - 8.000K
- Virtual Colour Wheel: preprogrammed 237 colours including whites (2.700K, 3.200K, 4.200K, 5.600K and 8.000K)
- Tungsten lamp effect at whites: 2.700K and 3.200K
- Internal barndoors: individual position control of 4 "doors", +/- 90° module rotation (Patented)
- Frost: Separate
- Motorized zoom
- Electronic strobe effect with variable speed up to 20 Hz
- Pre-programmed random strobe & pulse effects
- High resolution electronic dimming: 0 - 100%

## Control and programming

- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC, stand-alone operation with 3 editable programs (each up to 100 steps), built-in analyser for easy fault finding
- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN
- Wireless CRMX™ technology from Lumen Radio
- DMX Protocol modes: 3
- Control channels: 29, 23, 21
- Pan/Tilt resolution: 16 bit
- Colour mixing: 8 or 16 bit (internal 18 bit)
- Internal barndoor module movement & rotation: 8 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Dimmer: 8 or 16 bit (internal 18 bit)

## Movement

- Pan movement: 540°
- Tilt movement: 260°
- Movement control: Standard and Speed
- Controllable speed of Pan/Tilt movement
- Automatic Pan/Tilt position correction

## Internal barndoors

- Blades: 4 blades, each with separate movement control
- Rotation: +/- 90° module rotation

## Thermal specification

- Maximum ambient temperature: 45°C (113°F)
- Maximum surface temperature: 90°C (194°F)
- Minimum operating temperature: -5°C (23°F)

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: maximum 550 W at 230 V / 50 Hz (RGBW = full)
- Typical power consumption: 160 - 215 W (one colour = full)
- Power in connector: Neutrik powerCON
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical specification

- Height: 681 mm (26.8") - head in vertical position
- Width: 432 mm (17")
- Depth: 483 mm (19") - head in horizontal position
- Weight: 21.5 kg (47.4 lbs)
- Ingress protection rating: IP20

## Rigging

- Mounting positions: Horizontally or vertically
- Universal operating position
- Mounting points: 2 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks
- Safety cable attachment point
- Pan and Tilt transport locks

## Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON In connector

## Optional accessories

- Doughty Trigger Clamp : 17030386
- Safety wire 36 kg: 99011963
- Single Top Loader Case: 10120078-01
- Dual Top Loader Case: 10120076-01
- Foam Shell: 20020270

## Legal

- DL4F Wash<sup>™</sup> is a trademark of Robe lighting s.r.o.
- DL4F Wash<sup>™</sup> is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents