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# Spiider®

The Robe Spiider® – Our super bright LED WashBeam luminaire has truly set the benchmark in performance! Using 18 x 40 Watt and 1 x 60 Watt LEDs, combined with a highly efficient 12,5:1 zoom optical system, ranging from tight 4° Beam to wide 50° Wash, makes the Spiider® the leader in its class. Beautiful convergence of hard edge in-air effects, punchy beams and smooth, homogenized rich colour washes are all encapsulated in the unique Spiider®!

**Light source**

1x 60W RGBW and 18 x 40W RGBW LED multichips

**Light output**

13.700 lm, 50.100 lx @ 5m

**Zoom range**

4° - 50°

**Effects**

pixel control, MCFE™ - Multi-Coloured Flower Effects (patented), virtual colour wheel, tungsten lamp effect, preprogrammed pixel effects

The Spiider® product family truly sets itself apart. With the eye-catching Robe patented MCFE™ – Multi-Coloured Flower Effects – emitting sharp, multi-coloured spikes of light, including variable speed and rotation direction control to further increase the projection of charismatic in-air animations. Dynamic video effects are easily achieved by mapping individual pixels and controlled by DMX desk or media servers via sACN with internal HTP merging, DMX or by Kling-Net protocol. Equipped with Robe's innovative lens coating technology, the lenses keep bright and clear, with no scratches or marks, providing higher light output for longer intervals between cleaning.

Perfect colour and dimming control are available via RGBW and CMY colour mixing modes; our 18 Bit L3™ Low Light Linearity dimming software for imperceptible fades to black; variable CCT of 2.700K – 8.000K; tungsten emulation simulating the red shift and thermal delay of tungsten lamps for whites from 2.700K – 4.200K; and our DataSwatch™ 237 pre-programmed colour library.

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# Technical Specification

## Source

- Light source type: 1x 60W RGBW and 18x 40W RGBW LED multichips

- LED life expectancy: min. 50.000 hours

- Typical lumen maintenance: L70/B50 @ 50.000 hours

## Optical system

- Robe's proprietary optical design

- High - efficiency zoom optical system, ratio 12,5:1

- Zoom range: 4° - 50°

- Fixture total lumen output:

    - 13.700 lm (integrating sphere)

    - 11.000 lm (goniophotometer)

- Illuminance: 50.100 lx @ 5 m

- (RLCT™) Innovative lens coating technology (Patent pending)

- EasyClean™ - newly designed and patented lens sandwich system for easy cleaning and time saving maintenance of the lenses

## Dynamic Effects and Features

- Colour mixing mode RGBW or CMY

- Individual control of each RGBW pixel

- Variable CTO: 2.700K - 8.000K

- Virtual Colour Wheel: with 66 preset swatches

- Tungsten lamp effect at whites: 750W, 1.000W, 1.200W, 2.000W, 2.500W lamp emulation for whites from 2.700K to 4.200K (red shift and thermal delay)
- Colour rainbow effect with variable speed

- Pre-programmed pixel effects with colour, dimming and strobe chases, waves and pulses at variable speed and direction
- MCFE™ - Multi-Coloured Flower Effects – creating spectacular multicolour beam effects in the air rotating in both directions at variable speed (patented)
- Strobe effect: variable speed (max. 20 flashes per second)

- Pre-programmed random strobe & pulse effects

- High resolution electronic dimming: 0 - 100%

- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black

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## 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, Art-Net, MA Net, MA Net2, sACN, Kling-Net

- Wireless CRMX™ technology from Lumen Radio - on request

- DMX Protocol modes: 10

- Control channels: 49, 27, 33, 90, 27, 47, 91, 110, 104, 123

- Pan/Tilt resolution: 16 bit

- R,G,B,W colour mixing: 8 or 16 bit (internal 18 bit)

- Zoom: 8 bit

- Dimmer: 8 or 16 bit (internal 18 bit)

## Movement

- Pan movement: 540°

- Tilt movement: 220°

- Movement control: Standard and Speed

- Controllable speed of Pan/Tilt movement

- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patented)

- Automatic Pan/Tilt position correction

## Thermal specification

- Maximum ambient temperature: 45 °C (113 °F)

- Maximum surface temperature: 75 °C (167 °F)

- Minimal operating temperature: - 5°C (23 °F)

- Total heat dissipation: max. 1688 BTU/h (calculated)

## Electrical specification and connections

- Power supply: Electronic auto-ranging

- Input voltage range: 100-240 V, 50/60 Hz

- Power consumption: max. 660 W

- Power in connector: Neutric powerCON TRUE1

- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR

- Ethernet port in/out: RJ45

- Embedded Ethernet switch 10/100 Mbps: 1 x in / 1 x out

- USB connector (series A)

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## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical specification

- Height: 477 mm (18.7")
- Width: 390 mm (15.3")
- Depth: 252 mm (9.9")
- Weight: 13.3kg (29.2 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
- Tilt transport lock

## Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON TRUE1 In connector

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## Optional accessories

- Diffusion filter 2°: 10980416
- Clear lens cover: 10980607
- EggCrate: 10980317
- Doughty Trigger Clamp: 17030386
- Safety wire 36 kg: 99011963
- Upgrade kit CRMX Universal 260: 99030100
- Single Omega Bracket for one clamp - black: 10980100
- Single Omega Bracket for one clamp - white: 10980129
- Single Omega Bracket for one clamp - neutral: 10980113
- Single Top Loader Case: 10120195-01
- Dual Top Loader Case: 10120207
- Quad Top Loader Case: 10120208
- Foam Shell: 20020290

## Legal

- Spiider® is a registered trademark of Robe lighting s. r. o.
- Spiider® is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents