PAINTE® Fresnel

Perfection is not limited by size. Our PAINTE® Fresnel delivers the perfect compact, quiet, quality wash solution for short to medium-throw applications in theatrical, television, installation, live or corporate settings to create your masterpiece!

Light source

TE™ 310W HP White LED Engine (Patented)

Light output

10.850 lm (integrating sphere), 8.670 lm (goniophotometer)

Zoom range

6° - 50°

Effects

4Door™ Internal barndoor system with +/- 90° rotation, RotaScrim, Colour wheel, 2 frosts

Artists require a vast colour palette. PAINTE® Fresnel colours are boundless with the advanced CMY colour mixing system, a colour wheel featuring nine dichroic colours, variable CTO and ChromaTint™ green/magenta content control.

Designed for noise-sensitive environments with an appropriate suite of fan controls, PAINTE® Fresnel features a choice of TE™ 310W HP (High Performance) White LED for maximised output of 10.850 lm (integrating sphere) or TE™ 310W HCF (High Colour Fidelity) engines for the best possible colour rendition with an inherent CRI of 96. TRANSFERABLE ENGINE technology gives you interchangeable task-specific solutions, combined with the ability to maintain light quality and consistency across your inventory.

With all the softness of a classic Fresnel beam, the motorised 8.3:1 ratio zoom produces a range of 6°- 50° from its 150mm Fresnel lens, making it the perfect compact wash luminaire.

The PAINTE® Fresnel features unsurpassed levels of beam control for a fixture of its class, including medium and light frosts; RotaScrim™ graduated filter with position control, +/- 180° rotation and edge colour correction; the rapid 4Door™ internal barndoor system for accurate individual leaf control and +/- 90° module rotation to ensure maximum flexibility.

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PAINTE® Fresnel is packed with Robe innovation including Cpulse™ flicker-free management for the latest cameras; L3™ Low Light Linearity dimming software for imperceptible fades to black; AirLOC™ (Less Optical Cleaning) technology keeping the optical elements in pristine condition for far longer; EMS™ Electronic Motion Stabiliser technology for enhanced fixture stability.

Sleek and feature-packed, our Robe PAINTE® Fresnel lets you wash your creations with a master's touch!

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Technical Specification

Source

- Light source type: TE™ 310W HP White LED Engine (Patented):
  - HP - High Performance Engine for maximum light output and optimal colour characteristics
  - LED Engine output: 18.500 lm
  - Fixture total lumen output:
    - 10.850 lm (integrating sphere)
    - 8.670 lm (goniophotometer)
  - Colour temperature output: 6.700 K
  - CRI: 70, remotely selectable filter for CRI 90
  - Illuminance: 20.500 lx @ 5 m
- Light source type: TE™ 310W HCF White LED Engine (Patented):
  - HCF - High Colour Fidelity Engine for the best light quality and colour rendition
  - LED Engine output: 13.000 lm
  - Fixture total lumen output:
    - 7.365 lm (integrating sphere)
    - 5.892 lm (goniophotometer)
  - Colour temperature output: 6.000K
  - CRI: 96, TLCI: 97, TM-30-18 Rf: 92, TM-30-18 Rg: 99
  - Illuminance: 8.395 lx @ 5 m
- LED life expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours
- Light source warranty: 4 years or 20.000 hours

Optical system

- Robe's proprietary optical design
- High-efficiency 13-lens zoom optical system, ratio: 8.3:1
- Zoom range: 6 - 50°
- Output lens diameter: 150 mm

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Dynamic Effects and Features

- Cyan: 0 - 100%

- Magenta: 0 - 100%

- Yellow: 0 - 100%

- Variable CTO: 3.000K - 6.700K

- ChromaTint™ - Patented plus / minus green correction function

- Colour Wheel: 9 dichroic filters + white

- 4Door™ - Internal Barndoors with individual control of the four leaves for added beam control of wash light, with +/-90° module rotation. (Patented)

- MagFrost™ - Magnetic paddle fast change system providing exchangeable frosts containing as standard 5°/10° frost filter

- RotaScrim™ - Internal Scrim module with graduated filter position control for asymmetrical style lighting of drapes and unwanted hotspot removal from scenery. The entire module can be rotated +/- 180°. (Patented)

- Electronic strobe effect with variable speed up to 20 Hz

- Extremely quiet operation suitable for all types of production in Theatre and TV

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

- Cpulse™ special flicker-free management for HD and UHD cameras, ready for 8K and 16K

- AirLOC™ (Less Optical Cleaning) technology greatly reduces the level of airborne particles drawn over the optical elements. This increases the overall performance, light quality and time between routine cleaning and maintenance

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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
    - ArtNet, MA Net, MA Net2, sACN
- REAP™ - Robe Ethernet Access Portal
- Wireless CRMX™ technology from Lumen Radio - on request
- Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity - on request
- DMX Protocol modes: 1
- Control channels: 33
- Pan & Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- + - Green correction
- Colour wheel positioning: 8 or 16 bit
- Internal barndoor module movement & rotation: 8 bit
- Scrim: 8 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Dimmer: 16 bit (internal 18 bit)

Movement

- Pan movement: 540°
- Tilt movement: 270°
- 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

Internal barndoors

- Patented 4Door™ internal barndoors module
- Blades: 4 blades, each with separate movement control
- Rotation: +/- 90° module rotation

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Internal Scrim

- Patented RotaScrim™ internal Scrim module
- Graduated filter position control
- Rotation: +/- 180° of the entire module

Thermal specification

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 80 °C (176 °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: max. 440 W
- Power connector in: Neutrik powerCON TRUE1
- DMX and RDM data in/out: Locking 5-pin XLR
- Ethernet port in: RJ45
- Ethernet port in/out: RJ45 for Embedded Epass™ switch 10/100 Mbps - on request

Approvals

- CE Compliant
- cETLus Compliant

Mechanical specification

- Height: 619mm (24.4") - Head in vertical position
- Width: 367 mm (14.4")
- Depth: 219mm (8.6") - Head in vertical position
- Weight: 18.1 kg (39.9 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
- Pan & Tilt transport locks

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Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON TRUE1 In connector
- Gel frame adaptor: 99018612

Optional accessories

- PAINTE TE™ 310W HP White LED Engine: 14080078
- PAINTE TE™ 310W HCF White LED Engine: 14080083
- PAINTE TE™ 310W TGW White LED Engine: 14080099
- Top hat: 10981121
- Frost 0.5° (exchange) assembled: 10980690
- Frost 1° (exchange) assembled: 10980691
- Frost 3.5° (exchange) assembled: 10980758
- Frost 10° (exchange) assembled: 10980693
- Frost 20° (exchange) assembled: 10980694
- Frost 30° (exchange) assembled: 10980695
- Mains Cable powerCON TRUE1 In/Schuko, 2m, Indoor: 13052405
- Mains Cable powerCON TRUE1 In/US, 2m, Indoor: 13052406
- Mains Cable powerCON TRUE1 In/CEE 16A, 2m, Indoor: 13052445
- Mains Cable powerCON TRUE1 In/Open ended, 2m, Indoor: 13052407
- Daisy Chain powerCON TRUE1 In/Out, EU, 2m, Indoor: 13052439
- Daisy Chain powerCON TRUE1 In/Out, US, 2m, Indoor: 13052440
- Daisy Chain powerCON TRUE1 In/Out, EU, 5m, Indoor: 13052444
- Doughty Trigger Clamp: 17030386
- Safety wire 36 kg: 99011963
- Kit de mise à jour CRMX Universal 260: 99030100
- Single Top Loader Case: 10120287-01
- Dual Top Loader Case: 10120288-01
- Quad Top Loader Case: 10120289-01
- Foam Shell: 20020444-01

Legal

- PAINTE® is Registered Trademark of Robe lighting s. r. o.
- PAINTE® Fresnel is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents