

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, Cpulse™ - Flicker Free Management, L3™ dimming system for ultra-smooth fade to black, RotaScrim, AirLOC™ (Less Optical Cleaning), MagFrost™ - Magnetic paddle fast change system



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.

PPAINTE[®] 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!

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, TLCl: 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

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

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

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

Included items

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

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
- 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
- Doughty Trigger Clamp: 17030386
- Safety wire 36 kg: 99011963
- Single Top Loader Case: 10120287-01
- Dual Top Loader Case: 10120288-01
- Quad Top Loader Case: 10120289-01
- Foam Shell: 20020444-01

Legal

- PAINTE[®] Fresnel 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