

# ESPRITE® Fresnel

ESPRITE® Fresnel is for those demanding a classic Fresnel beam whilst enjoying the many advantages of our TE™ Transferable Engines.

**Light source**

TE™ 650W White LED TRANSFERABLE ENGINE

**Light output**

up to 24.400 lm, 30.600 lx @ 5m, Cpulse™ special flicker free management for HD and UHD cameras, ready for 8K and 16K

**Zoom range**

6° - 61°

**Effects**

Internal barndoor system with +/- 90° rotation, Cpulse™ - Flicker Free Management, L3™ dimming system for ultra-smooth fade to black



With this unique, ground-breaking technology, you have a choice of engines.

The TE™ 650W HP White LED Engine (HP - High Performance), producing the highest output possible, or the TE™ 650W HCF White LED Engine (HCF - High Colour Fidelity) for those requiring exceptional colour quality. Now you can fit either engine within the same fixture, without alignment or warranty issues, within five minutes! Without the expense, and complication of needing to have separate luminaires with differing sources, TRANSFERABLE ENGINES give you the right engine, in the right fixture, at the right time!

The revolutionary self-referencing, data capturing engines are all designed, developed and manufactured within our own factory (Patents pending). Performance has not been compromised, with the TE™ 650W HP White 6.700 K LED Engine producing a piercing 24.400 lm and the TE™ 650W HCF White 6.000 K LED Engine 16.680 lm with its exceptionally high inherent CRI of 96. The L70/B50 ratings of 50.000 hours, means longevity is assured.

The comprehensive feature set includes: Flat field CMY mixing; variable CTO; remotely selectable CRI 70/80/90 (HP Engine); two fast colour wheels; medium and light frosts; Scrim with graduated filter position control with +/- 180° rotation and edge colour correction for added finesse.

A quick, accurate internal barndoor provides individual blade control and +/- 90° module rotation, whilst a wide zoom range of 6 - 61° ensures maximum flexibility.

Furthermore, these fixtures are enhanced by Cpulse™, the flicker-free management system for the latest cameras; EMS™ for enhanced motion stability and L3™ Low Light Linearity dimming, for ultra-smooth fade to black allowing seamless integration with traditional lighting rigs.

# Technical Specification

## Source

- Light source type: TE™ 650W HP White LED Engine (Patented)
  - HP - High Performance Engine for maximum light output and optimal colour characteristics
  - LED Engine output: 55.000 lm
  - Fixture total lumen output:
    - 24.400 lm (integrating sphere)
    - 19.506 lm (goniophotometer)
  - Colour temperature output: 6.700 K
  - CRI: 70, remotely selectable filters for CRI 80 and CRI 90
  - Illuminance: 30.600 lx @ 5 m
- Light source type: TE™ 650W HCF White LED Engine (Patented)
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## Optical system

- Robe's proprietary optical design
- High-efficiency zoom optical system, ratio 10:1
- Zoom range: 6° - 61°
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- High-efficiency zoom optical system, ratio 10:1
- Zoom range: 6° - 61°

## Dynamic Effects and Features

- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%
- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 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
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## Movement

- Pan movement: 540°
- Tilt movement: 265°
- Movement control: Standard and Speed
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- Tilt movement: 265°
- Movement control: Standard and Speed

## Internal barndoors

- Patented 4Door™ internal barndoors module:
  - Blades: 4 blades, each with separate movement control
  - Rotation: +/- 90° module rotation
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  - 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
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  - 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)
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- Maximum surface temperature: 80°C (176°F)
- Minimum operating temperature: -5°C (23°F)

## Noise Levels

- Sound pressure level:
  - 27 dB(A) at 1 m (quiet mode)
  - 42 dB(A) at 1 m (auto mode)
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  - 27 dB(A) at 1 m (quiet mode)
  - 42 dB(A) at 1 m (auto mode)
- Sound power level:

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption:
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- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption:

## Approvals

- CE Compliant
- cETLus Compliant
- CE Compliant
- cETLus Compliant

## Mechanical specification

- Height: 719 mm (28.31") - head in vertical position
- Width: 443 mm (17.4")
- Depth: 264 mm (10.4") - head in vertical position
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- Width: 443 mm (17.4")
- Depth: 264 mm (10.4") - head in vertical position

## Rigging

- Mounting positions: Horizontally or vertically
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
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- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points

## Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs: 10980033
- Power cord including powerCON TRUE1 In connector
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- Power cord including powerCON TRUE1 In connector

## Optional accessories

- ESPRITE TE™ 650W HP White LED Engine: 14080066
- ESPRITE TE™ 650W HCF White LED Engine: 14080071
- ESPRITE TE™ 650W TGW White LED Engine: 14080079
- ESPRITE TE™ 650W HP White LED Engine: 14080066
- ESPRITE TE™ 650W HCF White LED Engine: 14080071
- ESPRITE TE™ 650W TGW White LED Engine: 14080079

## Legal

- ESPRITE<sup>®</sup> is a Trademark of Robe lighting s. r. o.
- ESPRITE<sup>®</sup> Fresnel is patented by Robe lighting s. r. o. and protected by one or more pending or issued patents
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## Gobos&Colours

### Colour Wheel 1



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14070464



14070465



14070466



14070467

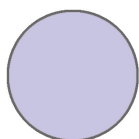
### Colour Wheel 2



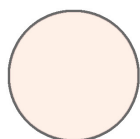
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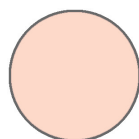
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