

Tel: +420-571-751500 Fax: +420-571-751515 Email: info@robe.cz

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

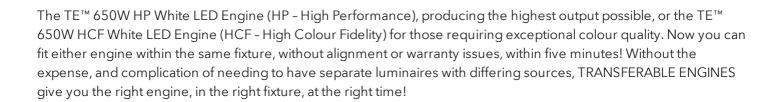
6° - 61°



Effects

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





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 \pm 90° module rotation, whilst a wide zoom range of 6 - 61° ensures maximum flexibility.





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Furthermore, these fixtures are enhanced by Cpulse $^{\text{TM}}$, the flicker-free management system for the latest cameras; ChromaTint $^{\text{TM}}$ for green/magenta content control; EMS $^{\text{TM}}$ for enhanced motion stability and L3 $^{\text{TM}}$ Low Light Linearity dimming, for ultra-smooth fade to black allowing seamless integration with traditional lighting rigs.



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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:
 - o 24.400 lm (integrating sphere)
 - o 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)
 - HCF High Colour Fidelity Engine for the best light quality and colour rendition
 - LED Engine output: 37.500 lm
 - Fixture total lumen output:
 - 16.680 lm (integrating sphere)
 - 13.264 lm (goniophotometer)
 - Colour temperature output: 6.000 K
 - CRI: 96, TLCI: 97, TM-30-18 Rf: 92, TM-30-18 Rq: 99
 - Illuminance: 20.800 lx @ 5 m
- Light source type: TE™ 650W TGW White LED Engine (Patented):
 - TGW Simulates the comforting warmth of tungsten lighting
 - LED Engine output: 30.250 lm
 - Fixture total lumen output:
 - o 14.300 lm (integrating sphere)
 - 11.300 lm (goniophotometer)
 - Colour temperature output: 3.200 K
 - CRI: 97, TLCI: 97, TM-30-18 Rf: 93, TM-30-18 Rg: 102
 - Illuminance: 17.800 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



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Optical system

• Robe's proprietary optical design

• High-efficiency zoom optical system, ratio 10:1

Zoom range: 6° - 61°

• Output lens diameter: 156 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 1: 5 fixed dichroic colours + white
- Colour Wheel 2: 5 fixed dichroic colours + 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 light 5° and medium 10° frost filters
- 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)
- Motorized zoom and focus
- Edge colour correction
- Electronic strobe effect with variable speed up to 20 Hz
- 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
- 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
- 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: 4
- Control channels: 34, 30, 35, 31
- Pan & Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- + Green correction: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Internal barndoor module movement & rotation: 8 bit
- Internal scrim module movement & rotation: 8 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Edge colour correction: 8 bit
- Dimmer: 8 or 16 bit (internal 18 bit)

Movement

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

Noise Levels

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

Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption:
 - Standard mode max. 870 W at 230 V / 50 Hz
 - High-power mode max. 950 W at 230 V / 50 Hz
- Power in connector: Neutrik powerCON TRUE1
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45
- Ethernet port in/out: RJ45 (instead of 3-pin XLR) for Embedded Epass™ switch 10/100 Mbps on request
- USB connector (series A) for lightmaster purposes

Approvals

- CE Compliant
- cETLus Compliant



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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
- Weight: 26 kg (57.3 lbs)
- Ingress protection rating: IP20

Rigging

- Mounting positions: Horizontally or vertically
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks
- Safety cable attachment point
- Pan & Tilt transport locks

Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs: 10980033
- Power cord including powerCON TRUE1 In connector
- Gel frame adaptor: 99016002
- Top hat: 10980535

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
- FS BMFL/Esprite Handles 2 pcs in box: 10980233
- Gel frame: 10980452
- Module of PC lens for Esprite Fresnel: 10980531
- Doughty Trigger Clamp: 17030386
- Omega Adaptor Tall CL-regular 2 pcs in box: 10980501
- Safety wire 36 kg: 99011963
- Single Top Loader Case: 10120254
- Dual Top Loader Case: 10120255
- Foam Shell: 20020357



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Legal

- ESPRITE® is a Trademark of Robe lighting s. r. o.
- ESPRITE® 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











Czech Republic

Colour Wheel 2











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