

# ESPRITE™ Fresnel

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

ESPRITE Fresnel features the low cost, transferable light engine to ingeniously solve the problem of performance longevity and light consistency for those preferring the higher brightness of white source LEDs. The self-referencing, data capturing TE™ 650W White LED engine, designed, developed and manufactured in our own factory, allows for rapid and economical "Lamp like" exchange to give both fixtures a life well beyond those of non-user replaceable LED sources (Patents pending). Performance has not been compromised, with the ESPRITE Fresnel provides up to 27.500 lm of super smooth Fresnel quality light. The comprehensive feature set includes: Flat field CMY mixing; variable CTO; remotely selectable CRI 70/80/90; 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 HD and UHD camera systems; EMS™ for enhanced motion stability and L3™ Low Light Linearity dimming, for ultra-smooth fade to black allowing seamless integration with traditional lighting rigs.



TE™ 650W White LED Engine



up to 27.400 lm



6° - 61°



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

# Technical Specification

## SOURCE

- Light source type: TE™ 650W White LED Engine
- LED life expectancy: min. 20.000 hours
- CRI: 70/80/90, remotely selectable
- Colour temperature: 6.700K
- Light source warranty: 4 years or 20.000 hours

## OPTICAL SYSTEM

- Robe's proprietary optical design
- High - efficiency zoom optical system, ratio 10:1
- Zoom range: 6° - 61°
- High efficient component optics
- Fixture total lumen output: up to 27.400 lm
- Output lens diameter: 156 mm

## DYNAMIC EFFECTS

- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%
- Variable CTO: 3.000K - 6.700K
- Colour Wheel 1: 5 fixed dichroic colours + white
- Colour Wheel 2: 5 fixed dichroic colours + white
- Internal barndoors: individual position control of 4 "doors", +/- 90° module rotation (Patent pending)
- Scrim: Graduated filter position control, +/- 180° module rotation (Patent pending)
- Frost: variable light and medium
- 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

## 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
- DMX Protocol modes: 2
- Control channels: 34, 30
- Pan/Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Internal barndoor module movement & rotation: 8 bit

- Edge colour correction
- Frost: 8 bit
- Zoom: 8 or 16 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 (Patent pending)
- Automatic Pan/Tilt position correction

## INTERNAL BARNDOORS

- Blades: 4 blades, each with separate movement control
- Rotation: +/- 90° module rotation

## THERMAL SPECIFICATION

- Maximum ambient temperature: 45°C (113°F)
- Maximum surface temperature: 75°C (167°F)
- Minimum operating temperature: -5°C (23°F)

## ELECTRICAL SPECIFICATION AND CONNECTIONS

1. Power supply: Electronic auto-ranging
  2. Input voltage range: 100-240 V, 50/60 Hz
  3. 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

## APPROVALS

- CE Compliant
- cETLus Compliant (pending)

## MECHANICAL SPECIFICATION

- Height: 719 mm (28.31")
- 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 and Tilt transport locks

## INCLUDED ITEMS

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON TRUE1 In connector
- Gel frame adaptor
- Top hat: 10980535 TopHat for T1/Esprite Wash

## ACCESSORIES

- Gel frame: 10980452
- Module of Fresnel lens for Esprite PC: 10980532
- Doughty Trigger Clamp: 17030386
- Omega Adaptor Tall CL-regular 2 pcs in box: 10980501
- Safety wire 35 kg: 99011963
- Single Top Loader Case: 10120254
- Dual Top Loader Case: 10120255
- Foam Shell: 20020357

## LEGAL

- ESPRITE™ Fresnel 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

## gobos & colours

### COLOUR WHEEL 1



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### COLOUR WHEEL 2



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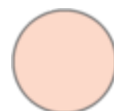
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