

ESPRITE™

Robe, the recognised leader in moving light technology, has made another major leap in innovation. The new ESPRITE™ LED automated luminaire has a fast-change, low-cost, transferable light engine ingeniously solving the problem of performance longevity for those preferring the higher brightness of white source LEDs as an obvious replacement for their aging stock of discharge workhorses.

**Light source**

TE™ 650W White LED TRANSFERABLE ENGINE

**Light output**

up to 27.000 lm, 85.000 lx @5m, Cpulse™ special flicker free management for HD and UHD cameras, ready for 8K and 16K

**Zoom range**

5.5° - 50°

**Effects**

Static and rotating gobo wheel, Animation wheel, Framing shutters, Prism



The self-referencing, data capturing TE™ 650W (Transferable Engine) white LED source, designed, developed and manufactured within our own factory, allows for rapid and economical "lamp-like" exchange to give the fixture a life well beyond those of non-user replaceable LED sources. Performance has not been compromised with the 27,000 lm fixture output producing a piercing 85,000 lux at 5m. This is enhanced by our legendary precision optics to produce crystal clear white light.

The comprehensive feature set includes: Flat field CMY mixing; variable CTO, two fast colour wheels; one indexable and rotatable gobo wheel; a fixed gobo wheel CTO filters; 6-facet rotating prism; 1° soft edge and 5° wash type frosts; an animation wheel and spectacular multi-colour effects.

Quick, accurate, easy framing is provided via our patented fast framing shutter module with individual blade control and +/-60° rotation capability for extra fine control.

ESPRITE™ by design removes any airflow over the optics, resulting in reduced residue deposits thus extending periods between cleaning.

Furthermore, the optional unique Hot-Spot feature allows you to move from a flat field beam to a 6:1 ratio hot-spot beam giving uniform intensity when overlaying beam edges to create smooth washes of light; Cpulse™ flicker free management system for the latest cameras and our L3™ Low Light Linearity dimming for ultra-smooth fade to black for seamless integration into traditional lighting rigs.

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You have a feature rich, very high output, long lasting, future proof package all in a compact 27.8kg housing.

Technical Specification

Source

- Light source type: TE™ 650W White LED TRANSFERABLE ENGINE
- LED life expectancy: min. 50.000 hours
- CRI: 70/80/90, remotely selectable
- Colour temperature: 6.700K
- 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 zoom optical system, ratio 9:1
- Zoom range: 5.5° - 50°
- Output lens diameter: 150 mm
- High efficient component optics
- Fixture total lumen output:
 - 34.000 lm (in integrated sphere)
 - 27.000 lm (on the wall)
- Illuminance: 85.000 lx @5m

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
- Framing shutters : Patented framing shutters module with 4 individually positionable blades plus rotation of the complete frame system +-60°
- Rotating gobo wheel: 7 rotating, indexable and replaceable breakup and aerial gobos + open, patented slot & lock system
- Static gobo wheel: 9 static and replaceable gobos + open
- Animation wheel: Aluminium animation wheel, used alone or in combination with gobos, rotating in both directions at variable speed
- Prism: 6 - facet prism rotating in both directions at variable speed
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- Frost: light 1° for instant softening of the projected gobo or framing shutters and medium 5° for even wash
- Hot-Spot: from flat field to 6:1 hot-spot
- Motorized zoom and focus
- Electronic strobe effect with variable speed up to 20 Hz
- 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.

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: 49, 42
- Pan/Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Framing shutters module movement & rotation: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Static gobo wheel positioning: 8 bit
- Animation wheel: 8 bit
- Animation wheel rotation: 8 bit
- Iris: 8 or 16 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Focus: 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

Rotating gobos

- 7x rotating glass gobos
- Outside diameter: 26.8 mm
- Image diameter: 23.5 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass
- Slot & lock system for easy replacement of gobos

Static gobos

- 9x static glass gobos
- Outside diameter: 26.8 mm
- Image diameter: 23.5 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass

Effect wheel

- Single animation wheel
- Material: Aluminium
- Can be used alone or in combination with rotating gobos
- Rotating in both directions, variable speed

Framing shutters system

- Shutters: 4 Blades, each with separate movement and rotation control
- Movement: Smooth with variable speed, ultrafast blade movements for creating mid-air effects
- Pre-programmed: Shape and blade sequences
- Rotation: +- 60° of the complete framing system

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:
 - 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

Mechanical specification

- Height: 733 mm (28.9") - head in vertical position
- Width: 443 mm (17.4")
- Depth: 264 mm (10.4") - head in vertical position
- Weight: 28.2 kg (62.2 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

Optional accessories
Gobos & Colours

- Frost 10° (exchange) assembled: 10980497
- Hot-Spot lens in gobo holder: 10980483

Rotating Gobo Wheel

- Gobo adaptor: 10980463
- Gal frame: 10980464
- Trigger: 10980465
- Adaptor: 10980466
- Regular 2: 10980467
- Regular 3: 10980468
- Regular 4: 10980469
- Regular 5: 10980470
- Regular 6: 10980471
- Regular 7: 10980472
- Regular 8: 10980473
- Regular 9: 10980474
- Regular 10: 10980475
- Regular 11: 10980476
- Regular 12: 10980477
- Regular 13: 10980478
- Regular 14: 10980479
- Regular 15: 10980480
- Regular 16: 10980481
- Regular 17: 10980482
- Regular 18: 10980483
- Regular 19: 10980484
- Regular 20: 10980485
- Regular 21: 10980486
- Regular 22: 10980487
- Regular 23: 10980488
- Regular 24: 10980489
- Regular 25: 10980490
- Regular 26: 10980491
- Regular 27: 10980492
- Regular 28: 10980493
- Regular 29: 10980494
- Regular 30: 10980495
- Regular 31: 10980496
- Regular 32: 10980497
- Regular 33: 10980498
- Regular 34: 10980499
- Regular 35: 10980500
- Single Top Loader Case: 10120254
- Dual Top Loader Case: 10120255
- Full: 20020357
- Full: 10980568

Legal

- ESPRITE™ is a Trademark of Robe lighting s. r. o.
- ESPRITE™ is patented by Robe lighting s. r. o. and protected by one or more pending or issued patents

Static Gobo Wheel

- 15020378
- 15020379
- 15020380
- 15020381
- 15020382
- 15020383
- 15020384
- 15020385
- 15020386

Colour Wheel 1

- 14070463
- 14070464
- 14070465
- 14070466
- 14070467

Colour Wheel 2

- 14070473-6
- 14070469
- 14070470
- 14070471
- 14070472