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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.

The self-referencing, data capturing WTE™ 650W (White Transferable Engine) 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 2,5:1 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. You have a feature rich, very high output, long lasting, future proof package all in a compact 27.8kg housing.

WTE™ 650W White LED Transferable Engine

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

5.5° - 50°

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

Technical Specification

SOURCE

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

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: up to 27.000 lm
- Brightness: 85.000 lx @5m

DYNAMIC EFFECTS

- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%
- Variable CTO: 2.700K - 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 2,5:1 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

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: 4 mm
- High temperature borofloat or better glass

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

- Blades: 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: 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
    - Boost 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: 733 mm (28.9") - head in vertical position
- Width: 443 mm (17.4")
- Depth: 264 mm (10.4") - head in vertical position
- Weight: 27.8 kg (61.3 lbs)

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

ACCESSORIES

- Doughty Trigger Clamp: 17030386
- Safety wire 35 kg: 99011963
- Single Top Loader Case: 10120254
- Dual Top Loader Case: 10120255
- Foam Shell: 20020357

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

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gobos & colours

ROTATING GOBO WHEEL

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15020373

15020374

15020375

15020376

15020377

15040011

STATIC GOBO WHEEL

15020378

15020379

15020380

15020381

15020382

15020383

15020384

15020385

15020386

COLOUR WHEEL 1

14070463

14070464

14070465

14070466

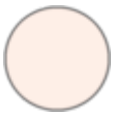
14070467

COLOUR WHEEL 2

14070473-6

14070469

14070470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