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iESPRITE®

Make outdoor lighting complications and stress a thing of the past! Our nocompromise, self-maintaining, revolutionary iESPRITE® delivers consistent, hassle-free performance without complex maintenance procedures, whatever the weather or atmospheric conditions.

Light source

iSE-TE™ 650W White LED TRANSFERABLE ENGINE

Light output

34.000 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 IP65-rated iESPRITE® combines our latest protection technology with the highly desired ESPRITE® maintaining identical output and feature-rich effects in a fully protected package capable of handling all the challenges of outdoor environments.

Joining the Robe iSeries iESPRITE® again negates the traditional weight penalty associated with IP-rated fixtures having similar weight to the indoor ESPRITE®. With class-leading form factor, size and appearance, and all the features and identical performance of the indoor original, iESPRITE® once again enables seamless integration between models, even on the same truss if desired!

The ingenious ingress protection system has been specifically designed to allow standard maintenance and preparation procedures, such as TRANSFERABLE ENGINE exchange and gobo replacement, without any additional tools, as gobo changes or maintenance work can be done on-site.The onboard patented RAINS™ (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system that automatically removes any moisture detected within the fixture and provides constant monitoring to ensure peak performance.

iESPRITE® runs an ingenious Self Pressure Test to check internal pressure. This self-test, taking less than 3 minutes, provides an error message if gaskets and covers were not replaced correctly or locking screws were incorrectly tightened, ensuring maximum protection.

Their lightweight magnesium alloy covers, with aluminium alloy substructure, provide a dust-free environment for the optics. This eliminates the need for frequent cleaning, routine maintenance, and UV damage to plastic parts. To maintain consistently high lumen output, even with the rigours of outdoor performance, water, dirt, dust, haze, and smoke are repelled from the front lens with our unique parCoat™ hydrophobic, oleophobic-resistant coating. Furthermore, it allows easy removal of deposits without scratching or damage.

By including NFC (Near-Field Communication) technology, you can access setup, diagnostic and performance features, even when the fixture is not powered directly from your mobile device using the Robe Com app.

Outdoor fixtures need to operate in extreme cold. iESPRITE® contains an innovative POLAR+™ technology - a special standby mode with low power consumption, in which the fixture´s sensors and communications channels continue to function. When activated, POLAR+™ automatically maintains an internal temperature level, giving instant operability down to minus 50 degrees centigrade!

iESPRITE® is available with a choice of patented IP65-rated TE-iSE™ 650W White LED TRANSFERABLE ENGINES; HP (High Performance) 6.700 K, 34.000 lm CRI70; HCF (High Colour Fidelity) 6.000 K, 24.000 lm CRI 96.

The identical 9:1 zoom optical system, with a 5.5° to 50° zoom range, provides all the flexibility you need. Our cutting-edge CMY colour mixing system provides beautifully smooth mixing and transitions. Combined with two colour wheels, CRI 80 and 90 filters (HP Engine), and a variable CTO from 3.000 – 6.700 K give iESPRITE® total colour finesse. With the patented Plano4™ four individual plane framing shutters; one rotating fully indexable and one static gobo wheel; an animation wheel; a 6-facet bi-directional variable speed prism and two MagFrost™ 1° and 5° frosts, you have all the creative tools you need. Removing the need for distracting pre-use pan and tilt calibration movement, our patented MAPS™ (Motionless Absolute Positioning System) allows the fixture to fully calibrate while remaining static- Very useful when located within confined spaces.

For those requiring maintained network connectivity, we have Epass™ available as standard. Our REAP™ (Robe Ethernet Access Portal) allows access to fixture information and diagnostics over Ethernet Networks. Perfect for installations requiring remote centralised monitoring of fixture performance. Important for television users, Cpulse™ provides flicker-free management of the latest camera systems.

iESPRITE® is fully compatible with our industry-leading RoboSpot™ remote-controlled follow-spot system.

iESPRITE® - Robe reliability in all weathers.

Technical Specification

Source

- Light source type: TE-iSE™ 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:
    - 34.000 lm (integrating sphere)
    - 27.000 lm (goniophotometer)
  - Colour temperature output: 6.700 K
  - CRI: 70, remotely selectable filters for CRI 80 and CRI 90
  - Illuminance: 85.000 lx @ 5 m
- Light source type: TE-iSE™ 650W HCF White LED Engine (Patented):
  - HCF - High Colour Fidelity Engine for the best light quality and colour reproduction
  - LED Engine output: 37.500 lm
  - Fixture total lumen output:
    - 24.000 lm (integrating sphere)
    - 19.000 lm (goniophotometer)
  - Colour temperature output: 6.000K
  - CRI: 96, TLCI: 97, TM-30-18 Rf: 92, TM-30-18 Rg: 99
  - Illuminance: 59.000 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

Optical system

- Robe's proprietary optical design
- High-efficiency 13-lens zoom optical system, ratio: 9:1
- Zoom range: 5.5° - 50°
- Output lens diameter: 150 mm
- parCoat™ (particle resistant coating) unique hydrophobic and oleophobic coating helps prevent water, dirt, dust, haze and smoke from adhering to the output lens

Dynamic Effects and Features

- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%
- Variable CTO: 3.000K - 6.700K
- + - Green correction function
- Colour Wheel 1: 5 fixed dichroic colours + white
- Colour Wheel 2: 5 fixed dichroic colours + white
- Framing shutters: Patented Plano4™ 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
- Frosts: MagFrost™ - magnetic paddle fast change system providing exchangeable frosts containing as standard a very light 1° for instant softening of the projected gobo or framing shutters, and a medium 5° for even wash, both specifically selected for theatre and TV use
- Hot-Spot: from flat field to 6:1 hot-spot (optional)
- 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.
- POLAR+™ for power saving and instant operation in extremely cold weather conditions

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, NFC app controller
- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN
- REAP™ - Robe Ethernet Access Portal
- Wireless CRMX™ technology from Lumen Radio
- Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity

- RAINS™ (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system to automatically remove any moisture detected within the fixture and provides constant monitoring to ensure peak performance
- DMX Protocol modes: 4
- Control channels: 49, 42, 50, 43
- Pan & Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- + - Green correction: 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 (Patented)
- Automatic Pan & Tilt position correction
- MAPS™ - Motionless absolute positioning system for Pan and Tilt (Patented)

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
- Patented 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 at variable speed

Framing shutters system

- Patented Plano4™ framing shutters module
- Shutters: 4 Blades, each with separate movement and +- 25° rotation control
- Movement: Smooth with variable speed, ultrafast blade movements for creating mid-air effects
- Rotation: +- 60° of the complete framing system

Thermal specification

- Maximum ambient temperature: 50°C (122°F)
- Maximum surface temperature: 80°C (176°F)
- Minimum operating temperature: -50°C (-58°F)
- Total heat dissipation: max. 2430 BTU/h (calculated)

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)
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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 connector in: Neutrik powerCON TRUE1
- DMX and RDM data in/out: Locking 5-pin XLR
- Ethernet port in/out: RJ45 for Embedded Epass™ switch 10/100 Mbps

Approvals

- CE Compliant
- cETLus Compliant

Mechanical specification

- Height: 756 mm (29.76") - head in vertical position
- Width: 458 mm (18.03")
- Depth: 289 mm (11.37") - head in vertical position
- Weight: 34 kg (75 lbs)
- Ingress protection rating: IP65

Rigging

- Mounting positions: 0°, 90°
- 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

Optional accessories

- Frost 0.5° (exchange) assembled: 10980583
- Frost 10° (exchange) assembled: 10980497
- Frost 20° (exchange) assembled: 10980574
- Frost 30° (exchange) assembled: 10980584
- Hot-Spot lens in gobo holder: 10980483
- Gel frame adaptor: 10980463
- Gel frame: 10980464
- Doughty Trigger Clamp: 17030386
- Omega Adaptor Tall CL - 2 pcs in box: 10980501
- Safety wire 36 kg: 99011963
- Single Top Loader Case: 10120312
- Dual Top Loader Case: 10120313
- Foam Shell: 20020464
- Top Hat: 10980568

Legal

- iESPRITE® is Registered Trademark of Robe lighting s. r. o.
- iESPRITE® 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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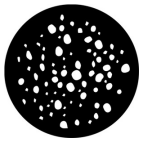
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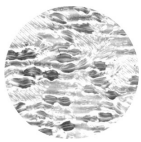
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Static Gobo Wheel

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Colour Wheel 1

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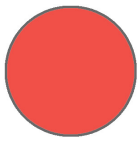
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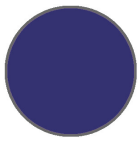
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Colour Wheel 2

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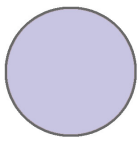
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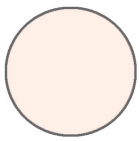
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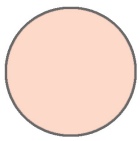
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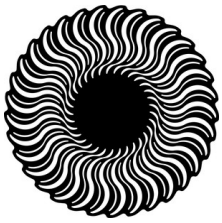
Animation Wheel

Animation Wheel



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