

iESPRITE® Fresnel

Designed to complement our outdoor iESPRITE® Profile, the iESPRITE® Fresnel is engineered for uncompromising performance and hassle-free maintenance, delivering beautifully soft Fresnel style beams in any weather or atmospheric condition.



Light source

iSE-TE™ 650W White LED TRANSFERABLE ENGINE



Light output

24.400 lm (integrating sphere), 19.506 lm (goniophotometer)



Zoom range

6° - 62°



Effects

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



The IP65-rated iESPRITE® Fresnel integrates our latest protection technology with the highly sought-after ESPRITE® Fresnel, ensuring consistent output and feature-rich effects in a fully protected package. Unlike traditional IP-rated fixtures, our iESPRITE® Fresnel maintains identical performance to its indoor counterpart without the weight penalty, making it seamlessly suitable for both indoor and outdoor settings.

Powered by the innovative iSE-TE™ 650W HP White LED Engine or the iSE-TE™ 650W HCF White LED Engine, our fixture delivers exceptional output and colour fidelity, catering to diverse lighting needs without the complexity of separate luminaires. Engineered and manufactured in our own factory, these engines boast impressive longevity and performance, ensuring reliability for years to come.

Equipped with a comprehensive feature set, the iESPRITE® Fresnel includes flat field CMY mixing, variable CTO, selectable 80/90 CRI filters, ChromaTint™ linear +/- green control, fast colour wheels, two frosts.

Additional beam control is facilitated through the 4Door™ internal barndoor system, featuring 90° module rotation and edge correction, alongside the RotaScrim™ graduated filter with rotation control. With a wide 6°-62° zoom range, this system offers unparalleled flexibility and precision in lighting adjustment.

The exquisitely soft Fresnel beam, spanning a wide 6°-62° zoom range, harnesses the groundbreaking F2L™ lens technology. Internally adorned with characteristic annular rings, the lens flaunts a flat exposed surface, significantly minimizing the accumulation of deposits and debris. This resilience is further bolstered by parCoat™, our proprietary oleophobic and hydrophobic coating, which repels detritus such as mineral, dust, rain, or haze residue, ensuring sustained clarity and performance.

Enhanced by Cpulse™ for flicker-free operation with the latest cameras, EMS™ for motion stability, and L3™ Low Light Linearity dimming, our fixture seamlessly integrates with traditional lighting rigs while meeting the demands of modern production environments.

Our ingenious ingress protection system, featuring the patented RAINS™ technology, ensures optimal performance by actively managing humidity, temperature, and pressure within the fixture. With NFC technology, you can access setup and diagnostic features directly from your mobile device via the Robe Com app, enhancing convenience and control.

Built to withstand extreme conditions, iESPRITE® features POLAR+™ technology, ensuring operability down to minus 50 degrees Celsius, making it ideal for outdoor applications in even the harshest environments.

With its lightweight magnesium alloy construction and NFC technology, iESPRITE® Fresnel redefines outdoor Fresnel style area lighting, offering unparalleled performance, durability, and ease of use.

iSeries - Robe reliability in all weathers

Technical Specification

Source

- Light source type: iSE-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:
 - 24.400 lm (integrating sphere)
 - 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: iSE-TE™ 650W HCF White LED Engine (Patented):
- Light source type: iSE-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:
 - 24.400 lm (integrating sphere)
 - 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: iSE-TE™ 650W HCF White LED Engine (Patented):

Optical system

- Robe's proprietary optical design
- High-efficiency zoom optical system, ratio 10:1
- Zoom range: 6° - 62°
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- High-efficiency zoom optical system, ratio 10:1
- Zoom range: 6° - 62°

Dynamic Effects and Features

- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%
- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%

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
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Movement

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

Internal barndoors

- Patented 4Door™ internal barndoors module:
 - Barndoors: 4 blades, each with separate movement control
 - Rotation: +/- 90° module rotation
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 - Barndoors: 4 blades, each with separate movement control
 - Rotation: +/- 90° module rotation

Internal Scrim

- Patented RotaScrim™ internal Scrim module:
 - Graduated filter position control
 - Rotation: +/- 180° of the entire module
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 - Graduated filter position control
 - Rotation: +/- 180° of the entire module

Thermal specification

- Maximum ambient temperature: 50°C (122°F)
- Maximum surface temperature: 80°C (176°F)
- Minimum operating temperature: -50°C (-58°F)
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- Maximum surface temperature: 80°C (176°F)
- Minimum operating temperature: -50°C (-58°F)

Noise Levels

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

Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption:
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- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption:

Approvals

- CE Compliant
- cETLus Compliant
- CE Compliant
- cETLus Compliant

Mechanical specification

- Height: 758 mm (29.86") - head in vertical position
- Width: 458 mm (18.03")
- Depth: 289 mm (11.37") - head in vertical position
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- Width: 458 mm (18.03")
- Depth: 289 mm (11.37") - head in vertical position

Rigging

- Mounting positions: vertically
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
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- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points

Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs: 10980033
- Gel frame adaptor
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- Omega Adaptor CL-regular 2 pcs: 10980033
- Gel frame adaptor

Optional accessories

- iEsprite iSE-TE™ 650W HP White LED Engine: 14080086
- iEsprite iSE-TE™ 650W HCF White LED Engine: 14080087
- Doughty Trigger Clamp: 17030386
- iEsprite iSE-TE™ 650W HP White LED Engine: 14080086
- iEsprite iSE-TE™ 650W HCF White LED Engine: 14080087
- Doughty Trigger Clamp: 17030386

Legal

- iESPRITE[®] Fresnel is Registered Trademark of Robe lighting s. r. o.
- iESPRITE[®] Fresnel is patented by Robe lighting s. r. o. and protected by one or more pending or issued patents
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