

Tel: +420-571-751500 Fax: +420-571-751515 Email: info@robe.cz

iT12 Fresnel™

For all-environment smooth area wash lighting, the iT12 Fresnel™ has all the tools, features, controls, and light qualities to deliver outstanding static Fresnel-style performance, whatever the elements can throw at it.



Light source

iSE-MSL-TE[™] 500W LED Engine (Patented)



Light output

11.000 lm (integrating sphere), 8.560 lm (goniophotometer)



Zoom range

6°-60°



Effects

concerts, indoors or out.

Framing Shutters, Iris, Frost, Optional drop-in module with Static gobo wheel, Rotating gobo wheel and Animation Wheel



Maintaining the renowned Multi-Spectral colour finesse of the T-series, the iT12 Fresnel™ contains an iSE-MSL-TE™ 500W LED IP65-rated Engine generating over 11.000 lm (integrating sphere) from the fixture. With all the advantages of cost, exchange or replacement in the field, this LED technology provides identical colour characteristics, responses, and control with T-series luminaires for absolute colour consistency throughout your Robe installation.

TRANSFERABLE ENGINE technology has all the advantages of cost, field exchange, or replacement, and the ability to keep up with LED development to ensure exceptionally long fixture life. With typical lumen maintenance of L70/B50 40.000 hours, the 4-year 20.000-hour warranty gives peace of mind.. With a choice of RGB, CMY, or individual colour emitter control for advanced users, the luminaire contains factory-calibrated whites; a variable CCT from 2.700 – 8.000K; our DataSwatch pre-programmed colour library with 237 colours and tones; adjustable CRI from 80 to 95+ and lamp selectable Tungsten emulation.

Traditional Fresnel lenses contain their essential beam softening annular ridge design, making them susceptible to catching unwanted debris, thereby obstructing their beam. To maintain consistently high lumen output, even with the rigours of outdoor performance, including water, dirt, dust, haze, and smoke, we have designed and patented the F2L™ lens as the raised ridges of the concentric annular sections are within the fixture, giving a smooth outer surface to prevent a build-up of debris.





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Our unique parCoat™ hydrophobic, oleophobic-resistant coating further aids clear optics by allowing easy removal of deposits without scratching or damage.

The soft-edged beam uses a 10:1 ratio 6°-60° motorised zoom to give maximum task flexibility.

For framing, an optional drop-in, motorised internal barndoor module features four individually positionable doors with +/- 90° module rotation. A MagFrost™ quick change image softening 5° medium frost comes fitted as standard. A scrim with graduated filter positional control and +/- 180° rotation gives additional beam control to remove unsightly hot spots.

Our patented BARS™ (Brake Attribute Retention System) locks the motorised zoom firmly in place for consistent, accurate replayability of lighting cues even when power cycled.

At the heart of iT12 Fresnel™ protection is RAINS™ (Robe Automatic Ingress Protection System). This highly advanced patented technology not only prevents ingress. It actively manages the fixture's internal microclimate, removing internal moisture build-up caused by constant heating and cooling to provide maximum protection for electronics. With simplified maintenance procedures, we have revolutionised the way outdoor fixtures are managed and protected.

Streamlined preparation saves time. The iT12 Fresnel™ runs an ingenious Self Pressure Test to check internal pressure. Requiring no special tools and taking under 3 minutes, the test provides an error message if gaskets and covers were not replaced correctly, or locking screws incorrectly tightened, ensuring maximum protection.

Their lightweight magnesium alloy covers, with aluminium alloy substructure, provide a dust-free environment for the optics, thereby eliminating the need for frequent cleaning, routine maintenance, and UV damage to plastic parts.

To operate in extreme cold, iT12 Fresnel™ contains our innovative POLAR+™ technology. This special standby mode maintains the fixtures sensors and communication channels remain active while greatly reducing power consumption. When activated, POLAR+™ will automatically regulate the internal temperature level, allowing instant operability down to minus 50 degrees centigrade!

Ideally suited for remote outdoor installations, REAP $^{\text{TM}}$, the Robe Ethernet Access Portal communication software, viewed as a web browser, shows real-time fixture monitoring of all parameters, including complete RAINS $^{\text{TM}}$ status information such as pressure and internal saturation levels.

By including NFC (Near-Field Communication) technology, you can access setup, diagnostic and performance features, even without power, directly from your mobile device using the Robe Com app.

iT12 Fresnel™ - Robe reliability in all weathers



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Technical Specification

Source

- Light source type: iSE-MSL-TE™ 500W LED Engine (Patented)
- LED life expectancy: min. 40.000 hours
- Colour rendition: CRI: 95, CRI R9: 96, TM30-18 Rf: 92, TM30-18 Rg: 106, TLCI: 91
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Optical system

- Robe's proprietary optical design
- High-efficiency zoom optical system, ratio 10:1
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- Zoom range: 6° 60°

Main features

- Factory calibrated whites and colours via the new RCC™ (Robe Colour Calibration) system, automatic or on-call self-re-calibration of the LED engine without the use of any external tool (Patent pending)
- Colour mixing: CMY/RGB or RGBAL
- White light: Variable CCT 2.700K 8.000K
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- Colour mixing: CMY/RGB or RGBAL
- White light: Variable CCT 2.700K 8.000K

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:
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- 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
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Thermal specification

Maximum ambient temperature: 50 °C (122°F)

Maximum surface temperature: 90 °C (176 °F)

• Minimum operating temperature: -50 °C (-58 °F)

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Electrical specification and connections

Power supply: Electronic auto-ranging

Input voltage range: 100-240 V, 50/60 Hz

Power consumption: Max. 600 W

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Approvals

• CE Compliant

• cETLus Compliant

• CE Compliant

cETLus Compliant

Mechanical specification

• Height: 534 mm (21.02") with yoke

Width: 385 mm (15.51")

Depth: 653 mm (26.18")

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Width: 385 mm (15.51")

Depth: 653 mm (26.18")

Rigging

• Mounting horizontally or vertically via mounting yoke

Mounting points: M12 bolt

Safety cable attachment point

Mounting horizontally or vertically via mounting yoke

Mounting points: M12 bolt

Safety cable attachment point



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Included items

- User Manual
- Gel frame adaptor
- Power cord including powerCON TRUE1 In connector:
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- Power cord including powerCON TRUE1 In connector:

Optional accessories

- iT12 iSE-MSL-TE™ 500W LED Engine: 14080098
- Doughty Trigger Clamp
- Safety wire 36 kg: 99011963
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Legal

- iT12 Fresnel™ is a Trademark of Robe lighting s. r. o.
- iT12 Fresnel™ is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents
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