

T14 Fresnel™

Designed for broadcast, film, and theatre professionals seeking a compact yet powerful manual wash luminaire, the T14 Fresnel™ expands Robe's acclaimed T-Series with a highly versatile solution for smaller studios, performance spaces, and on-location productions.

**Light source**

MSL-TE™ 200W LED Engine

**Light output**

8.300 lm

**Zoom range**

10°–72°

**Effects**

CMY/RGB or RGBAL Colour mixing, Virtual colour wheel, Tungsten lamp effect, Motorized zoom

At the heart of each fixture is Robe's internally designed and manufactured MSL-TE™ 200W LED TRANSFERABLE ENGINE. Delivering an impressive 8.300 lumens through a 200 mm front lens, it provides the renowned T-Series MSL™ multi-spectral light quality while ensuring identical colour characteristics, response, and control across the entire T-Series range. The result? Seamless colour consistency throughout your lighting rig.

Robe's innovative TRANSFERABLE ENGINE technology makes maintaining light quality simple and cost-effective. Engines can be changed quickly without specialist tools, while future LED upgrades can be adopted easily as technology evolves, extending fixture life and maximising re-turn on investment.

The T14 Fresnel delivers a classically soft, easy to blend beam. A motorised 10°–72° zoom, powered by the latest patented ZoomStat™ technology, keeps all optical elements enclosed within the fixture. The front lens remains fixed, eliminating visual distraction and helping protect the optics from contamination.

Advanced colour control is available via CMY, RGB, or individual RGBAL emitter control, offering a virtual CCT range from 2.700K to 8.000K (extended 1.800K - 10.000K), calibrated whites, tungsten emulation, and precise colour tuning. Outstanding TLCI and TM-30 performance ensures excellent skin-tone reproduction, while virtual CRI adjustment from 80 to 95 allows lighting to be tailored to any application.

For beautifully smooth fades and transitions, Robe's renowned L3™ Low Light Linearity 18-bit dimming software is complemented by a choice of dimming curves.

Designed for both networked and stand-alone operation, the fixtures feature dual backlit faders for direct intensity and zoom control. Comprehensive fan settings, AirLOC™ technology, and Cpulse™ flicker-free operation make them ideal for noise-sensitive broadcast and studio environments.

Additional innovations include BARS™ zoom locking, dedicated green/magenta control, and a rapid-change front lens system for maximum flexibility.

A full range of accessories, including four and eight-leaf barndoors and a pole-operation kit, completes the package.

The T14 Fresnel™ delivers compact size, classic control and exceptional light quality.

T14 Fresnel™ - Performance Beyond Size.

Technical Specification

Source

Light source type: MSL-TE™ 200W LED Engine (Patented)

LED Engine output: 10.500 lm

LED life expectancy: min. 40.000 hours

Colour rendition: CRI: 95, CRI R9: 96, TM30-18 Rf: 92, TM30-18 Rg: 106, TLCI: 91

Typical lumen maintenance: L70/B50 @ 40.000 hours

Light source warranty: 4 years or 20.000 hours

Optical system

Robe's proprietary optical design

Profile zoom lens system

High-efficiency zoom optical system, ratio 7,2:1

Zoom range: 10°-72°

Fixture total lumen output:

- 8.300 lm (integrating sphere)
- 6.600 lm (goniophotometer)

Output lens diameter: 160 mm

Optional PC and Fresnel zoom lens systems

Main features

Colour mixing: CMY/RGB or RGBAL

White light: Variable CCT standard range 2.700K-8.000K, extended range 1.800K-10.000K

DataSwatch™ filters: pre-programmed 237 colours and tones including most used whites 2.700K, 3.200K, 4.200K, 5.600K

Tungsten lamp effect: 750W, 1.000W, 1.200W, 2.000W, 2.500W lamp emulation for whites from 2.700K to 4200K (red shift and thermal delay)

+/- Green correction function

Adjustable CRI: from 80 to 95+

Motorised zoom

Electronic strobe effect with variable speed up to 20 Hz, pre-programmed random strobe & pulse effects

High resolution electronic dimming: 0-100%

L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black

Dimmer profile selection: Linear, Square law, Super Square law

Cpulse™ special flicker-free management for HD and UHD cameras, ready for 8K and 16K

Extremely quiet operation suitable for all types of production in Theatre and TV

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.

BARS™ - Brake Attribute Retention System (Patented) applied for Zoom stepper motors

ZoomStat™ - Patented zoom system that incorporates a stationary front Fresnel or PC lens, boasting an impressively wide beam angle exceeding 70°

FadeSync™ - Motorized Fader Synchronisation

Control and programming

Setting & Addressing: ROBE Navigation System 2 (RNS2)

Display: two-row LCD display & 4 control buttons

Protocols:

USITT DMX-512, RDM

ArtNet, MA Net, MA Net2, sACN

REAP™ - Robe Ethernet Access Portal

Wireless CRMX™ technology from Lumen Radio - on request

Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity - on request

DMX Protocol modes: 6

Control channels: 20, 10, 24, 7, 2, 1

Variable CCT: 8 bit

+/- Green correction: 8 bit

Colour mixing: 8 or 16 bit (internal 18 bit)

Dimmer: 8 or 16 bit (internal 18 bit)

Thermal specification

Maximum ambient temperature: 45 °C (113 °F)

Maximum surface temperature: 90 °C (194 °F)

Minimum operating temperature: -5 °C (23 °F)

Total heat dissipation: max. 938 BTU/h (calculated)

Noise Levels

Sound pressure level:

- 29 dB(A) at 1 m (quiet mode)
- 30 dB(A) at 1 m (auto mode)

Sound power level:

- 37 dB(A) (quiet mode)
- 38 dB(A) (auto mode)

Electrical specification and connections

Power supply: Electronic auto-ranging

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

Power consumption: Max. 275 W

Power connector in/out: Neutrik powerCON TRUE1 in/out

DMX and RDM data in/out: Locking 5-pin XLR

Ethernet port in: RJ45

Ethernet port in/out: RJ45 for Embedded Epass™ switch 10/100 Mbps – on request

Approvals

CE Compliant

UKCA Compliant

cETLus Compliant

Mechanical specification

Height: 417 mm (16,4")

Width: 262 mm (10,3")

Depth: 463 mm (18,4")

Weight: 9 kg (19,8 lb)

Ingress protection rating: IP20

Rigging

Mounting horizontally or vertically via mounting yoke

Mounting points: M12 bolt

Safety cable attachment point

Included items

User Manual

Gel frame adaptor

Optional accessories

Doughty Trigger Clamp

Wireless DMX external module: 10980127

Top hat

Safety wire 36 kg: 99011963

T14 PC lens module

Incline Adaptor

Mounting bracket - short

Gel Frame

Pole operated yoke

4-leaf Barndoor module

8-leaf Barndoor module

Floor stand: 10981014

Mains Cable powerCON TRUE1 In/Schuko, 2 m, Indoor: 13052405

Mains Cable powerCON TRUE1 In/US, 2 m, Indoor: 13052406

Daisy Chain powerCON TRUE1 In/Out, EU, 2 m, Indoor: 13052439

Mains Cable powerCON TRUE1 In/CEE 16A, 2 m, Indoor: 13052445

Mains Cable powerCON TRUE1 In/Open ended, 2 m, Indoor: 13052407

Daisy Chain powerCON TRUE1 In/Out, US, 2 m, Indoor: 13052440

Daisy Chain powerCON TRUE1 In/Out, EU, 5 m, Indoor: 13052444

Single Top Loader Case

Dual Top Loader Case

Foam Shell

Legal

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T14 Fresnel™ is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents