

# T3 Fresnel™

Building on the celebrated Robe T-Series, the T3 Fresnel™ redefines high-power multispectral wash lighting. Engineered for Long-Throw applications in the world's largest theatres, it delivers exceptional output, refined light quality, and precise colour control.

**Light source**

MSL™ 1400W Multi-spectral LED engine

**Light output**

35.000 lm (integrating sphere)

27.700 lm (goniophotometer)

**Zoom range**

6° - 65°

**Effects**

Beam Shaper (internal barndoors), Scrim Module, linear progressive frost

Delivering over 35.000 lumens (integrating sphere) from its powerful 1.400W MSL™ (Multi-Spectral-Light) source, the T3 Fresnel™ honours its theatrical roots with a classic soft beam and wide ranging 6 - 65° zoom for flawless coverage in expansive venues.

The T3 Fresnel™ excels in nuanced colour work, offering selectable CMY, RGB or individual colour emitter control for advanced additive colour mixing. Features include the DataSwatch™ virtual colour library; factory calibrated whites; extensive 1.800K to 10.000K CCT range; lamp selectable tungsten emulation; and MCE™ macro-driven multicoloured effects. Its virtually controlled CRI of 80-95+ ensures perfect colour rendition and natural skin tones.

Vital for theatrical lighting, ultra-smooth theatrical dimming is achieved with the L3™ 18-bit system for seamless fades-to-black.

The comprehensive feature set includes a 4Door™ four leaf barndoor system (90° rotation), edge correction, and RotaScrim™ graduated filter with 180° beam rotation for the removal of unsightly hotspots. T-Series Fresnel's provide far more beam control than traditional wash lights.

Setting a new benchmark in diffusion, the T3 Fresnel™ features our revolutionary 0°-15° ProFrost™ progressive frost system. Offering precise, variable, even diffusion across the entire, this patented system is fully operable at any zoom setting. It can be inconspicuously introduced to provide anything from the faintest touch to the heaviest diffusion - giving designers previously unattainable control.

A dedicated plus/minus green channel and Cpulse™ flicker-free management ensure flawless results for broadcast.

Engineered for noise-sensitive environments, the T3 Fresnel™ offers console-adjustable fan modes for consistent output. Its AirLOC™ (Less Optical Cleaning) technology minimises airborne particle build-up and airflow noise, keeping optics cleaner for far longer and significantly maintenance intervals.

An Epass™ ethernet pass-through switch safeguards network connectivity, and the REAP™ (Robe Ethernet Access Portal) enables network-based monitoring.

The T3 Fresnel™ is the ultimate Long-Throw multi-spectral wash fixture for today's leading theatrical and broadcast designers.

**T3 Fresnel™ - Hi-Power Multispectral light quality.**

# Technical Specification

## Source

- Light source type: MSL™ 1400 W Multi-Spectral LED engine (Patented)
- LED life expectancy: min. 40.000 hours
- Colour rendition:
  - CRI: 95, CRI R9: 91, TM30-18 Rf: 93, TM30-18 Rg: 103, TLCI: 94
- Typical lumen maintenance: L70/B50 @ 40.000 hours
- Light source warranty: 3 years or 20.000 hours

## Optical system

- Robe's proprietary optical design
- Zoom range: 6° - 65°
- High-efficiency zoom optical system, ratio 11:1
- Fixture total lumen output:
  - 35.000 lm (integrating sphere)
  - 27.700 lm (goniophotometer)
- Output lens diameter: 250 mm

## Dynamic Effects and 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 standard range 2.700K - 8.000K, extended range 1.800K - 10.000K
- DataSwatch™ filters: pre-programmed 66 colours and tones including most used whites 2.700K, 3.200K, 4.200K, 5.600K and 8.000K
- 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+
- 4Door™ - Internal Barndoors with individual control of the four leaves for added beam control of wash light, with +/- 90° module rotation. (Patented)
- ProFrost™ progressive frost system smoothly softens, melts and dissolves projections from 0° to 15°
- RotaScrim™ - Internal Scrim module with graduated filter position control for asymmetrical style lighting of drapes and unwanted hotspot removal from scenery. The entire module can be rotated +/- 180°. (Patented)
- Motorised zoom
- ECC™ - Edge Colour Correction
- Electronic strobe effect with variable speed up to 20 Hz
- Pre-programmed random strobe & pulse effects
- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black
- Extremely quiet operation suitable for all types of production in Theatre and TV
- CPC™ Convection Passive Cooling Mode disables all fans for completely silent, convection-only cooling
- 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.
- UpLift™: To ease handling, clip on UpLift handles are designed to ease the burden. Handles are easily attached and removed, greatly easing carrying and lifting of larger fixtures.
- BARS™ - Brake Attribute Retention System (Patented) applied for internal movement affecting beam distribution

## Control and programming

- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- Display: QVGA Robe screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC, 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 - on request
- Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity
- DMX Protocol modes: 3
- Control channels: 35, 24, 39
- Pan & Tilt resolution: 16 bit
- Colour mixing: 8 or 16 bit (internal 18 bit)
- Variable CCT: 8 bit
- Internal barndoor module movement & rotation: 8 bit
- Internal scrim module movement & rotation: 8 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Edge colour correction: 8 bit
- Dimmer: 8 or 16 bit (internal 18 bit)

## Movement

- Pan movement: 540°
- Tilt movement: 265°
- Movement control: Standard and Speed
- Controllable speed of Pan & Tilt movement
- Automatic Pan & Tilt position correction
- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patented)
- MAPS™ - Motionless absolute positioning system for Pan and Tilt (Patented) - on request

## Internal barndoors

- Patented 4Door™ internal barndoors module:
  - 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

## Thermal specification

- Maximum ambient temperature: 45°C (113°F)
- Maximum surface temperature: 70°C (158°F)
- Minimum operating temperature: -5°C (23°F)
- Total heat dissipation: max. 4350 BTU/h (calculated)

## Noise Levels

- Sound pressure level:
  - 23 dB(A) at 1 m (quiet mode)
  - 29 dB(A) at 1 m (auto mode)
- Sound power level:
  - 31 dB(A) (quiet mode)
  - 37 dB(A) (auto mode)

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 120-240 V, 50/60 Hz
- Power consumption: max. 1700 W
- Power connector in: Neutrik powerCON TRUE1
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in/out: RJ45 for Embedded Epass™ switch 10/100 Mbps - on request USB connector (series A) for lightmaster purposes

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical specification

- Height: 832 mm (32.7") - head in vertical position
- Width: 506 mm (19.9")
- Depth: 347 mm (13.7") - head in vertical position
- Weight: 45 kg
- Ingress protection rating: IP20

## Rigging

- Mounting positions: 0°, 32°, 90°
- Universal operating position
- Mounting points: 2 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
- Gel frame adaptor: 99019521
- Top hat: 10981426

## Optional accessories

- UpLift™ Removable Handles (2 pcs): 10981220
- Doughty Trigger Clamp: 17030386
- Omega Adaptor T CL - 2pcs: 10980184
- Safety wire 50 kg: 99011957
- Single Top Loader Case: 10120386
- Dual Top Loader Case: 10120387
- Foam Shell: 20020535

## Legal

- T3 Fresnel™ is a Trademark of Robe lighting s. r. o.
- T3 Fresnel™ is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents