

# T1 Profile™

T1. The new ONE and only fixture you need for theatre, television and touring and now with the option to be connected to the Robe innovative RoboSpot system.

**Light source**

MSL™ 550 W Multi-Spectral LED engine

**Light output**

up to 12.600 lm, CRI 95+, + - Green Correction Function, Cpulse™ special flicker free management for HD and UHD cameras

**Zoom range**

7° - 49°

**Effects**

Rotating gobo wheel, Animation Wheel, Framing Shutters, 6-facet rotating prism



Specifically designed to fulfil the challenging requirements of these diverse applications within one comprehensive fixture. The new revolutionary MSL™ (Multi-Spectral Light) LED engine's output reaches 12.600 lumens. It's impressively bright.

T1 Profile is full of theatrical subtlety. With CMY colour control, DataSwatch™ filters containing a selection of pre-programmed colours via the new generation RCC™ (Robe Colour Calibration) algorithm and a wide ranging 2700K to 8000K CCT control, all variations of colour are possible for even the most demanding designers. The precise needs of theatrical dimming are catered to with our super smooth Robe 18-bit dimming system. In addition, the high CRI of 95+ provides natural skin tones.

For television work, we have included a plus and minus green channel and Cpulse™ special flicker-free management for all vision systems such as HD and UHD cameras. All this combined with our crisp framing shutter system, full zoom range of 0,5° and 10° variable frosts, specially designed breakup and aerial gobos, animation wheel and prism, gives you total control of your designs in theatre, television and touring.

You need only ONE. T1.

# Technical Specification

## Source

- Light source type: MSL™ 550 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
- High - efficiency zoom optical system, ratio 7:1
- Zoom range: 7° - 49°, covers favoured field angles of most Theatre and TV lights
- Fixture total lumen output:
  - 12.600 lm (integrating sphere)
  - 10.075 lm (goniophotometer)
- Output lens diameter: 140 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 2.700K - 8.000K
- DataSwatch™ filters: pre-programmed 237 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+
- MCE™ - Split and multicoloured effects created directly from the LED engine (Patented)
- 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, all gobos specially selected for theatrical and TV productions
- Animation wheel: Aluminium animation wheel, used alone or in combination with gobos, rotating in both directions at variable speed
- Prism: 6 - facet 8° 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 0.5° for instant softening of the projected gobo or framing shutters, and a medium 10° 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
- 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
- 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.

## 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
- REAP™ - Robe Ethernet Access Portal
- Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity - on request
- Wireless CRMX™ technology from Lumen Radio - on request
- DMX Protocol modes: 3
- Control channels: 49, 33, 53
- Pan & Tilt resolution: 16 bit
- Colour mixing: 8 or 16 bit (internal 18 bit)
- Variable CCT: 8 bit
- Adjustable CRI: 8 bit
- + - Green correction: 8 bit
- Framing shutters module movement & rotation: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Animation wheel: 8 bit
- Prism indexing & 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
- 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 & Tilt (Patented) - on request

## Rotating gobos

- 7x rotating glass gobos
- Image diameter: 23.5 mm
- Outside diameter: 26.8 mm
- Thickness: 1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass
- "SLOT&LOCK" system for easy replacement of gobos

## Effect wheel

- Single animation wheel
- Material: Aluminium
- Can be used alone or in combination with rotating gobos
- Rotating in both directions, 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
- Smooth and very precise motion of framing shutters
- Rotation: +- 60° of the complete framing system

## 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. 2560 BTU/h (calculated)

## Noise Levels

- Sound pressure level:
  - 24 dB(A) at 1 m (quiet mode)
  - 30 dB(A) at 1 m (auto mode)
- Sound power level:
  - 32 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: maximum 750 W at 230 V / 50 Hz (all LEDs On)
- Power in connector: Neutrik powerCON TRUE1
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45
- Ethernet port in/out: RJ45 (instead of 3-pin XLR) for Embedded Epass™ switch 10/100 Mbps - on request
- USB connector (series A) for lightmaster purposes

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical specification

- Height: 726 mm (28.6") - head in horizontal position
- Width: 400 mm (15.7")
- Depth: 258 mm (10.2") - head in horizontal position
- Weight: 24.3 kg (54 lbs)
- Ingress protection rating: IP20

## Rigging

- Mounting positions: Horizontally or vertically
- 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: 10980440

## Optional accessories

- 7.5" Gel Frame: 10980443 (compatible with standard adaptor 10980440 only)
- Gel frame adaptor: T1 with Top Hat 10980474
- Top hat: 10980451 (compatible with optional adaptor 10980474 only)
- Doughty Trigger Clamp: 17030386
- Frost 0.5° (exchange) assembled: 10980583
- Frost 1° (exchange) assembled: 10980578
- Frost 5° (exchange) assembled: 10980573
- Frost 10° (exchange) assembled: 10980497
- Frost 20° (exchange) assembled: 10980574
- Frost 30° (exchange) assembled: 10980584
- Hot-Spot lens in gobo holder: 10980483
- Safety wire 36 kg: 99011963
- Single Top Loader Case: 10120244-03
- Dual Top Loader Case: 10120245-03
- Foam Shell: 20020340-01

## Legal

- T1 Profile™ is a Trademark of Robe lighting s. r. o.
- T1 Profile™ is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents

# Gobos&Colours

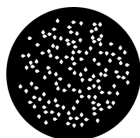
## Rotating Gobo Wheel



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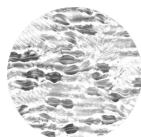
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## Animation Wheel



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