# LEDBeam 150™


ROBE

**The best things come in small packages, now with zoom included. LEDBeam 150™ is the answer with fast sweeping beams and a wide far-reaching quality wash in compact housing.**

The spectacular zoom range of 3.8° to 60° uses an eminent custom-designed optical system, now equipped with Robe's innovative lens coating technology which brings benefits such as bright and clear lenses, no scratches or marks, higher light output and longer intervals between cleaning.

The unique LEDBeam 150™ FWQ offers Fresnel-Wash type of light output for even smooth edges and better color homogenization.

Attractive colorful chases and smooth transitions are powered by a cluster of high power multichip 40W RGBW LEDs.

A highly optimized motorised control produces speedy pan and tilt movement.

Besides intense strobing capabilities, both LEDBeam 150™ and LEDBeam 150™ FWQ also offer gentle 18-bit dimming, including Tungsten lamp effects.

## Source

- Light source type: 7 x 40W RGBW multichips
- LED life Expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours

## Optical System

- Robe's proprietary optical design
- RLCT™ Innovative lens coating technology
- High - efficiency zoom optical system, ratio 15.5: 1
- Zoom range: 3.8° - 60°
- Diffusion filter imbedded (for LEDBeam 150 FWQ)
- **LEDBeam 150**
  Fixture total lumen output:
  3.550 lm (integrating sphere)
  2.842 lm (goniophotometer)
  Illuminance: 12.200 lx @5m
- **LEDBeam 150 FWQ**
  Fixture total lumen output:
  2.850 lm (integrating sphere)
  2.288 lm (goniophotometer)
  Illuminance: 8.190 lx @5m

## Dynamic Effects and Features

- Colour mixing mode RGBW or CMY
- Variable CTO: 2.700K - 8.000K
- 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)
- Motorized zoom
- Pre-programmed random strobe & pulse effects
- High resolution electronic dimming: 0–100 %

## Control and Programming

- Setting & Addressing: two-row LCD display & 4 control buttons, stand-alone operation with 3 editable programs (each up to 40 steps)
- Protocols: USITT DMX-512, RDM
- Wireless CRMX™ technology from Lumen Radio - on request
- DMX Protocol modes: 2
- Control channels: 22, 16
- Pan/Tilt resolution: 8 or 16 bit
- RGBW / CMY: 8 or 16 bit
- Zoom: 8 or 16 bit
- Dimmer: 8 or 16 bit (internal 18 bit)

## Movement

- Pan movement: 450°
- Tilt movement: 228°
- Movement control: Standard and Speed
- Controllable speed of Pan/Tilt movement
- Automatic Pan/Tilt position correction

## Thermal Specification

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 80 °C (176 °F)
- Minimum operating temperature: -5 °C (23 °F)

## Noise Levels

- Sound pressure level: 18 dB(A) at 1 m (quiet mode)
  34 dB(A) at 1 m (auto mode)
- Sound power level: 26 dB(A) (quiet mode)
  42 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. 220W
- Power connector in/out: Neutrik powerCON in/out
- DMX and RDM data in/out: Locking 5-pin XLR

## Approvals

- CE Compliant
- cETLus Compliant

## Environmental Information

- GWP (Global Warming Potential) total in modules A1-A3 (according LCA): 137 kg CO2e
- Recycled contain material: 7.8%

## Mechanical Specification

- Height: 337 mm (13.27")
- Width: 244 mm (9.6")
- Depth: 149 mm (5.87")
- Weight: 5.7 kg (12.6 lbs)
- Ingress protection rating: IP20

## Included Items

- User Manual
- Omega Adaptor CL-regular

## Rigging

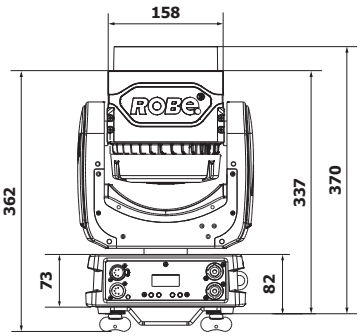
- Mounting points: 1 pair of 1/4-turn locks
- 1 x Omega adaptor with 1/4-turn quick locks
- Universal operating position
- Safety cable attachment point

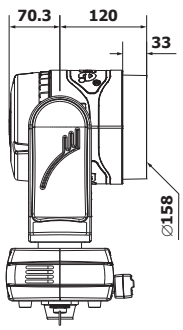
## Optional Accessories

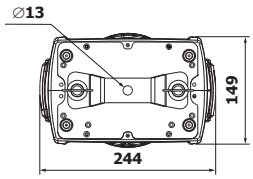
- Diffusion filter 2° FWQ (for LEDBeam 150): 10980423
- Clear lens cover: 10980604
- Wireless DMX external module: 10980127
- EggCrate: 10980346
- Doughty Trigger Clamp: 17030386
- Safety wire 36 kg: 99011963
- Mains Cable powerCON In/Schuko 2 m: 13051724
- Mains Cable powerCON In/CEE 16A 2 m: 13051725
- Mains Cable powerCON In/US 2 m: 13051726
- Mains Cable powerCON In/open ended 2 m: 13051731
- Daisy Chain powerCON In/Out EU 2 m: 13051727
- Daisy Chain powerCON In/Out US 2 m: 13051728
- Single Top Loader Case: 10120214
- Quad Top Loader Case: 10120215
- Eight Pack Top Loader Case: 10120216
- Foam Shell: 20020300

## Legal

- LEDBeam 150™ is a Trademark of Robe lighting s.r.o.
- LEDBeam 150™ and LEDBeam 150™ FWQ are patented by Robe lighting s.r.o. and protected by one or more pending or issued patents

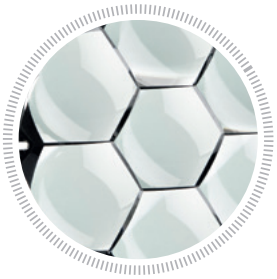


## Optical System

Incorporating sophisticated custom-designed optical system combined with optional eggcrate for precise control of the light beam.



## Zoom Range

Spectacular zoom range of 3.8° to 60° offers fast sweeping beams and a wide excellent quality wash.

## Lens Coating Technology

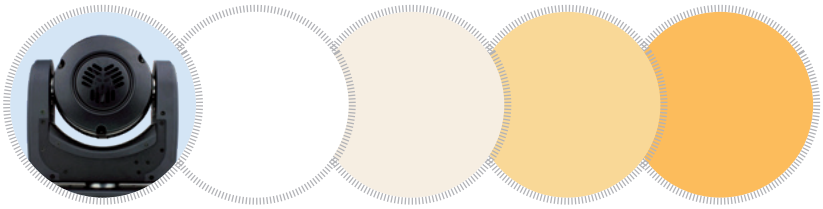
The innovative lens coating technology protects soft plastic lenses against „surface scattering" even when scrubbed repeatedly. Anti-static properties prolong the time period before the lenses will collect dust and create white maps on the lens surface. The new coating brings countless benefits including longer intervals between cleaning, bright and clear lenses, no scratches or marks, and higher light output (Patent pending).

## LED Colours

LEDBeam 150 is able to produce 4.300 from pastel to saturated colours.

## True White Colours

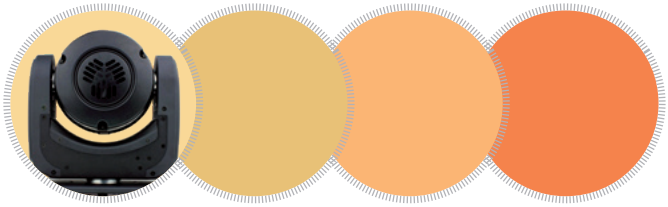
Spotless colormixing of specially calibrated LEDs together with predefined values on a Virtual Colour wheel channel allow quick direct calling of exact white hues of 2.700K, 3.200K, 4.200K, 5.600K and 8.000K.



8.000 K | 5.600 K | 4.200 K | 3.200 K | 2.700 K

## Tungsten Effect

The Halogen lamp mode provides emulation of 750W, 1.000W, 1.200W, 2.000W and 2.500W tungsten lamps. The dimmer channel initiates halogen lamp-like behavior (red effect and thermal delay) for each lamp type during dimming.



Dimmer 100% | Dimmer 80% | Dimmer 50% | Dimmer 20%

# Spiider®

ROBE®

***The Robe Spiider® – Our super bright LED WashBeam luminaire has truly set the benchmark in performance! Using 18 x 40 Watt and 1 x 60 Watt LEDs, combined with a highly efficient 12,5:1 zoom optical system, ranging from tight 4° Beam to wide 50° Wash, makes the Spiider® the leader in its class. Beautiful convergence of hard edge in-air effects, punchy beams and smooth, homogenized rich colour washes are all encapsulated in the unique Spiider®!***

The Spiider® product family truly sets itself apart. With the eye-catching Robe patented MCFE™ – Multi-Coloured Flower Effects – emitting sharp, multi-coloured spikes of light, including variable speed and rotation direction control to further increase the projection of charismatic in-air animations.

Dynamic video effects are easily achieved by mapping individual pixels and controlled by DMX desk or media servers via sACN with internal HTP merging, DMX or by Kling-Net protocol. Equipped with Robe's innovative lens coating technology, the lenses keep bright and clear, with no scratches or marks, providing higher light output for longer intervals between cleaning

Perfect colour and dimming control are available via RGBW and CMY colour mixing modes; our 18 Bit L3™ Low Light Linearity dimming software for imperceptible fades to black; variable CCT of 2.700K – 8.000K; tungsten emulation simulating the red shift and thermal delay of tungsten lamps for whites from 2.700K – 4.200K; and our DataSwatch™ 237 pre-programmed colour library

## Source

- Light Source Type: 1 x 60W RGBW and 18 x 40W RGBW LED multichips
- LED Life Expectancy: min. 50.000 hours
- Typical Lumen Maintenance: L70/B50 @ 50.000 hours

## Optical System

- Robe's proprietary optical design
- High-efficiency zoom optical system, ratio 12.5:1
- Zoom range: 4°–50°
- Fixture total lumen output: 13.700 lm (integrating sphere)
  11.000 lm (goniophotometer)
- Illuminance: 50.100 lx @ 5 m
- RLCT™ Innovative lens coating technology (Patent pending)
- EasyClean™ - newly designed and patented lens sandwich system for easy cleaning and time saving maintenance of the lenses

## Dynamic Effects and Features

- Colour mixing mode: RGBW or CMY
- Individual control of each RGBW pixel
- Variable CTO 2.700K–8.000K
- Virtual Colour Wheel with 66 preset swatches
- Tungsten lamp effect: 750W, 1.000W, 1.200W, 2.000W, 2.500W lamp emulation for whites from 2.700K to 4.200K (red shift and thermal delay)
- Colour rainbow effect with variable speed
- Pre-programmed pixel effects with colour, dimming and strobe chases, waves and pulses at variable speed and direction
- MCFE™- (Multi-Coloured Flower Effects) - creating spectacular multicolour beam effects in the air rotating in both directions at variable speed (Patented)
- Strobe effect: variable speed (max.20 flashes per second)
- Pre-programed random strobe & pulse effects
- High resolution electronic dimming: 0–100 %
- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black

## 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, Art-Net, MA Net, MA Net2, sACN, Kling-Net
- Wireless CRMX™ technology from Lumen Radio - on request
- DMX protocol modes: 10
- Control Channels: 49, 27, 33, 90, 27, 47, 91, 110, 104, 123
- Pan/Tilt resolution: 16 bit
- R,G,B,W colour mixing (internal 18 bit): 8 or 16 bit
- Zoom: 8 bit
- Dimmer (internal 18 bit): 8 or 16 bit

## Movement

- Pan movement: 540°
- Tilt movement: 220°
- Movement control: Standard and Speed
- Controllable speed of Pan & Tilt movement
- EMS™- Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patent pending)
- Automatic Pan & Tilt position correction

## Thermal Specification

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 75 °C (167 °F)
- Minimal operating temperature: - 5 °C (23 °F)

## Electrical Specification and Connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100–240 V AC, 50-60 Hz
- Power consumption: max. 660 W
- Power connector in: Neutric powerCON TRUE 1
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in/out: RJ45
- Embedded Ethernet switch 10/100 Mbps: 1 x in / 1 x out
- USB connector (series A)

## Approvals

- CE Compliant
- cETLus Compliant (pending)

## Mechanical specification

- Height: 477 mm (18.7") – head in vertical position
- Width: 390 mm (15.3")
- Depth: 252 mm (9.9")
- Weight: 13.3 kg (29.2 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
- Tilt transport lock

## Included Items

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON TRUE1 In connector

## Optional Accessories

- Diffusion filter: 2° 10980416
- Clear lens cover: 10980607
- EggCrate: 10980317
- Doughty Trigger Clamp: 17030386
- Safety wire 36 kg: 99011963
- Mounting adapter for one omega holder - black: 10980100
- Mounting adapter for one omega holder - white: 10980129
- Mounting adapter for one omega holder - neutral: 10980113
- Single Top Loader Case: 10120195-01
- Dual Top Loader Case: 10120207
- Quad Top Loader Case: 10120208
- Foam Shell: 2002 0290

## Legal

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

## Proprietary Optical System

Robe RnD have designed a new very efficient 12.5: 1 zoom optical system with a range from 4°–50°, resulting in light output of over 13.700 lumens and intensity of 50.000 lux @ 5 m (Patent pending).

## Innovative Flower Effect

The innovative MCFE™ - Multi-Coloured Flower Effect creates sharp colourful spikes of light, rotating in both directions at variable speed, adding new visual effect to the show! (Patented)

## Lens Coating Technology

The innovative lens coating technology protects soft plastic lenses against „surface scattering" even when scrubbed repeatedly. Anti-static properties prolong the time period before the lenses will collect dust and create white maps on the lens surface. The new coating brings countless benefits including longer intervals between cleaning, bright and clear lenses, no scratches or marks, and higher light output (Patent pending).

## Pixel Control

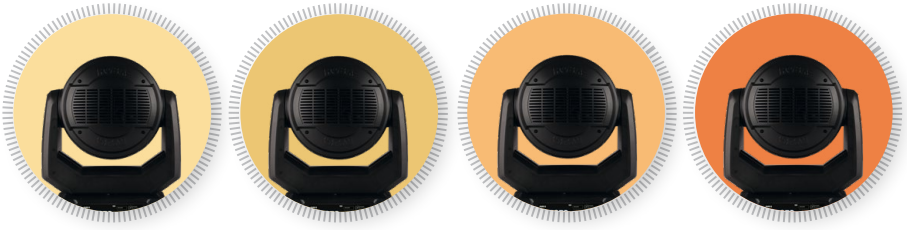
Individual pixel control of each LED via DMX or Kling-Net protocols allows to turn the fixture to the low res screen or to create variety of spectacular beam effects in the air.

## True White Colours

Spotless colormixing of specially calibrated LEDs together with predefined values on a Virtual Colour wheel channel allow quick direct calling of exact white hues of 2.700K, 3.200K, 4.200K, 5.600K and 8.000K.


## Tungsten effect

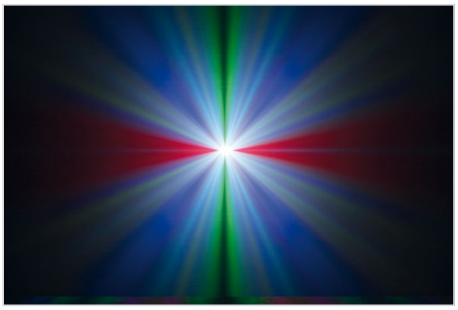
The halogen lamp mode provides emulation of 750W, 1.000W, 1.200W, 2.000W and 2.500W. The dimmer channel initiates halogen lamp-like behavior (red effect and thermal delay) for each lamp type during dimming.




## Max. Zoom

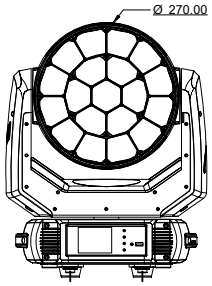
## Min. Zoom

## Flower Effect



# Spïder®


RNS2
ROBE
ESCAPE
NEXT
PREV
ENTER
DISPLAY ON
ROBE Innovative Technology
Spïder®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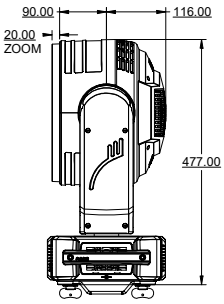
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20.00
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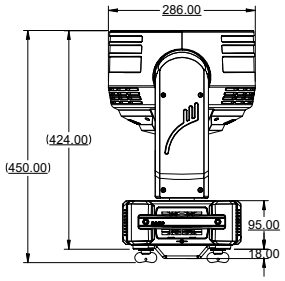
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(450.00)
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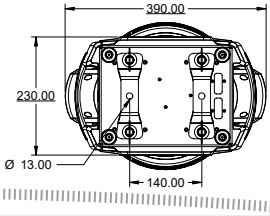
18.00


390.00
230.00
Ø 13.00
140.00

# PROFILE™

# PROFILE FS™

ROBE®

PROFILE™

## Like the original lamp of the same name, the Robe T1 is set to become just as influential in the world of stage and studio lighting.

Incorporating unique, innovative systems and technologies, including:

**MSL™** - Multi-Spectral Light source, adjustable CCT from 2.700 K to 8.000 K, CRI 95+, 12.600 lm

**DataSwatch™** - Fast selection of the most trusted colours & tones

**MCE™** - Split and multicoloured effects created directly from the LED engine

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

**EMS™** - Smooth stabilization Pan & Tilt movement system

**Cpulse™** - Special flicker-free management for all vision systems

**RCC™** - Robe Colour Calibration system with on-call self-recalibration of the LED engine without the use of any external tool

**Plano4™** - Framing shutters module with 4 individually positionable blades plus rotation of the complete frame system + - 60°

**MAPS™** - Motionless absolute positioning system for Pan & Tilt

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

**REAP™** - Robe Ethernet Access Portal

**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

**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

The T1 Profile™ is the result of extensive collaboration with lighting professionals throughout the world and includes all the features they demand, including fast, easy, CMY colour control; separate +/- green hue control channel; 7°–49° focus tracking zoom; variable 0.5° and 10° frosts at all zoom levels; selection of breakup and aerial gobos, animation wheel; 6-facet prism, plus a fully motorised, rotating, framing shutter set.

The variable CCT from 2.700 K to 8.000 K and tungsten emulation features ensures the T1 Profile™ fits into any lighting design, and at just 24.5 kg, this compact fixture also slots into any rig.

**Small, light, quiet & bright T1 - designed by you, for you, the only ONE you need.**

***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.***

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 2.700K to 8.000K 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.

Removing the need for fixture Pan & Tilt pre-use calibration movement, the innovative, and exceptionally accurate optional MAPS™ (Patented) Motionless Absolute Positioning System provides stationary reset with no distracting motion if this occurs during a performance. Furthermore, this technology allows you to power cycle luminaires within confined spaces.

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.

The T1 Profile FollowSpot is equipped with the digital camera on the head and can be connected with the RoboSpot BaseStation for off-stage follow spot operation.

***You need only ONE. T1***

W-F

## 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
- + - Green correction function
- Adjustable CRI from 80 to 95+
- MCE™ - Split and multicoloured effects created directly from the LED engine (Patented)
- Framing shutters: Patented 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, patented slot & lock system
- 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
- 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 CTO: 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: 25.0 mm
- Outside diameter: 26.8 mm
- Thickness: 1.1 mm
- Max. thickness: 4 mm
- High temperature borofloat or better glass
- Patented 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 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. 2.560 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: max. 750W at 230 V / 50 Hz (all LEDs On)
- Power connector in: Neutrik powerCON TRUE1
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in/out: RJ45 (instead of 3-pin XLR) - T1 Profile & T1 Profile FS, for Embedded Epass™ switch 10/100 Mbps - on request

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical Specification

- Height: 726 mm (28.6") - head in vertical position
- Width: 400 mm (15.7")
- Depth: 258 mm (10.2") - head in vertical position
- Weight: T1 Profile 24.3 kg (54 lbs)
  T1 Profile FS 25.5 kg (56.2 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
- Power cord including powerCON TRUE1 In connector
- Gel frame adaptor
- RoboSpot Camera for T1 Profile FS

## Camera (T1 Profile FS)

- Type: SNZ-6320
- Resolution: 1920 x 1080, 16:9 Full HD (1080p) resolution support
- Zoom: 32x optical zoom, 16x digital zoom
- Streaming: H.264, MPEG dual codec, Multiple streaming
- Vision: Day & Night (ICR), WDR (120dB)
- Minimum illumination: 0.3 Lux

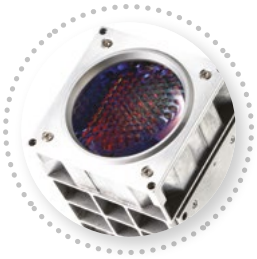
## Optional Accessories

- 7.5" Gel Frame: 10980443
- Gel frame adaptor: T1 with Top Hat 10980474
- Top hat: 10980451
- Doughty Trigger Clamp: 17030386
- 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
- Safety wire 35 kg: 99011963
- Single Top Loader Case: 10120244-03
- Dual Top Loader Case: 10120245-03
- Foam Shell: 20020340-01

## Legal

## MSL™ Multi-Spectral LED Light source

The new revolutionary MSL™ 550W LED engine (Patented) provides a fixture output reaching 12.600 lumens, high quality spectrum of CRI 95+, adjustable CCT from 2.700K to 8.000K and aditive colour mixing with CMY control mode.

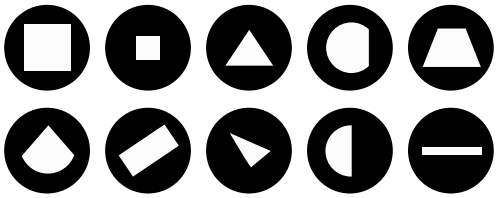


## CMY Colour Mixing

## Framing Shutters Module

T1 uses a patented Plano4™ framing shutters module with four blades which can be individually controlled, positioned and angled. The whole module can be rotated + – 60°.

4-Plane Shutter System



## Animation Wheel

Aluminium animation wheel can be used alone or in combination with gobo.

## Gobos

T1 comprises a selection of breakup and aerial gobos designed specifically for theatrical and TV productions.

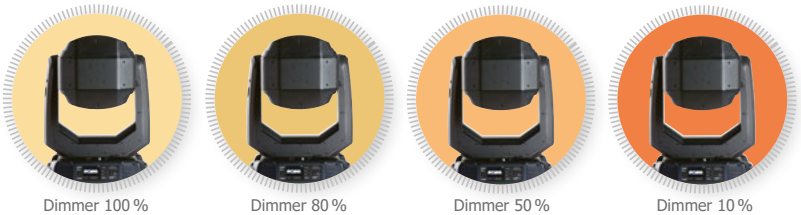
Rotating Gobo Wheel

## True White Colours

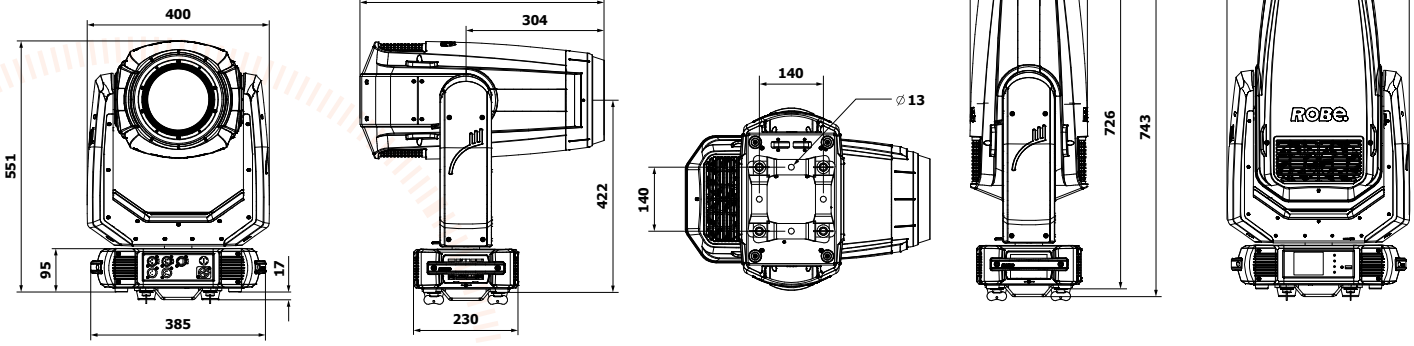
Factory calibrated whites and colours via the new RCC™ Robe Colour Calibration system allow quick direct calling of whites of any colour temerature from 2.700K to 8.000K.


## Tungsten effect

The Halogen lamp mode provides emulation of 750W, 1.000W, 1.200W, 2.000W and 2.500W tungsten lamps. The dimmer channel initiates halogen lamp-like behaviour (red effect and thermal delay) for each lamp type during dimming.



# T1 PROFILE™




# PROFILE™

# PROFILE FS™

ROBE®

# T2 PROFILE™

**Maintaining the absolute colour finesse of Robe's phenomenally successful Multi-Spectral MSL™ LED light engines, the T2 Profile™ produces over 22.000 lumens, measured at the front lens, via its 850 W MSL™ source, to throw their beautiful light further than before.**

Incorporating unique, innovative systems and technologies, including:

**MSL™** - Multi-Spectral Light source, adjustable CCT from 2.700 K to 8.000 K, CRI 95+, 22.000 lm

**DataSwatch™** - Fast selection of the most trusted colours & tones

**MCE™** - Split and multicoloured effects created directly from the LED engine

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

**EMS™** - Smooth stabilization Pan & Tilt movement system

**Cpulse™** - Special flicker-free management for all vision systems

**RCC™** - Robe Colour Calibration system with on-call self-recalibration of the LED engine without the use of any external tool

**Plano4™** - Framing shutters module with 4 individually positionable blades plus rotation of the complete frame system + - 60°

**MLP™** - Multi-Level Prisms allow multiple prisms to be "stacked" while retaining individual speed and direction control. This ability, with variable shape and size, creates unlimited dynamic, multi-level flower and beam effects.

**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

**MAPS™** - Motionless absolute positioning system for Pan & Tilt

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

**REAP™** - Robe Ethernet Access Portal

**MagFrost™** - Magnetic paddle fast change system providing exchangeable frosts containing as standard a very light 1° for instant softening of the projected gobo or framing shutters, and a medium 5° for even wash, both specifically selected for theatre and TV use

The exceptionally quiet T2 Profile™ provides the perfect long-throw partner to the smaller T1, as they both feature the MSL series LED engines, producing identical multi-spectral colour mixing consistency. T2 includes all the features top lighting designers demand. These include fast, easy, CMY colour control; separate +/- green hue control channel; 5°–55° zoom; variable 1° and 5° interchangeable frosts with full zoom range capability; one rotating and one static gobo wheel; animation wheel; two rotating prisms and an innovative framing shutter set.

The variable CCT from 2.700K to 8.000K and tungsten emulation features ensures the T2 Profile™, with its exceptional light quality and control, will fit into any lighting design.

**The bigger, brighter, yet quiet & light T2 - requested by the world's top lighting designers, now giving you greater multi-spectral reach.**

## *T2. Taking Multispectral perfection even further!*

While simultaneously maintaining the absolute colour finesse of Robe's phenomenally successful T1 series, featuring the MSL™ (Multi-Spectral) LED engine, our T2 Profile™ provides an enhanced output of more than 22.000 lumens, measured at the front lens, via its 850W MSL™ source, to throw their beautiful light even further than before. With a zoom range of 5–55°, T2 Profile™ is ideally suited to its longer-throw role in theatre, television, and touring.

T2 Profile™ is again full of theatrical subtlety. With CMY colour control, DataSwatch™ filters containing a selection of pre-programmed colours via our renowned RCC™ (Robe Colour Calibration) algorithm and a wide-ranging 2.700K to 8.000K CCT control, all variations of colour are possible. With absolutely no difference in colour produced by T1 and T2 platforms, you can use them together with confidence to provide consistent colour across your lighting rig, perfect for even the most demanding designers.

The precise needs of theatrical dimming are catered for with our super-smooth L3™ dimming system producing imperceptible fades to black. The high CRI of 95+ assures natural rendition of all skin tones.

Removing the need for fixture Pan & Tilt pre-use calibration movement, the innovative, and exceptionally accurate optional MAPS™ (Patented) Motionless Absolute Positioning System provides stationary reset with no distracting motion if this occurs during a performance. Furthermore, this technology allows you to power cycle luminaires within confined spaces.

Specifically, for television work, we have included a plus and minus green channel and the Cpulse™ flicker-free management system for all vision systems including HD and UHD cameras, all controllable directly from your console. All this combined with our acclaimed four plane shuttering system, two rotating gobo wheels, an animation wheel, two rotating prisms, changeable 1° and 5° variable frosts with full zoom range coverage, gives you total control over your designs.

Designed to operate in noise-sensitive environments such as television studios, theatres, and houses of worship, T2 utilises our innovative AirLOC™ system. Meaning „Less Optical Cleaning," this technology not only aids noise reduction but also dramatically reduces the level of airborne particles drawn over the optics, keeping them in pristine condition for far longer.

The T2 Profile FS™ is equipped with the digital camera on its head and can be connected with the RoboSpot™ BaseStation for off-stage follow spot operation.

***T2 – the next step.***

## Source

- Light source type: MSL™ 850W 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 11:1
- Zoom range: 5° - 55°, covers favoured field angles of most Theatre and TV lights
- Fixture total lumen output: 22.000 lm (integrating sphere)
  17.600 lm (goniophotometer)
- Output lens diameter: 180 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 4.200K (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: 6 rotating, indexable and replaceable breakup and aerial gobos + open, all gobos specially selected for theatrical and TV productions, patented slot & lock system
- Static gobo wheel: 8 static, replaceable breakup gobos + open, all gobos specially selected for theatrical and TV productions, patented slot & lock system
- Animation wheel: Aluminium animation wheel, used alone or in combination with gobos, rotating in both directions at variable speed
- MLP™ - Patented Multi-Level Prisms allow multiple prisms to be "stacked" while retaining individual speed and direction control. With variable shape and size it creates unlimited dynamic, multi-level flower and beam effects.
  - Prism 1: Independent 6 facet linear prism rotating in both directions at variable speed
  - Prism 2: Independent 6 facet circular prism rotating in both directions at variable speed
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- MagFrost™ - magnetic paddle fast change system providing exchangeable frosts containing as standard a very light 1° for instant softening of the projected gobo or framing shutters, and a medium 5° for even wash, both specifically selected for theatre and TV use
- Motorized zoom and focus
- 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
- 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 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
- Epass™- Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity
- Wireless CRMX™ technology from LumenRadio - on request
- DMX Protocol modes: 3
- Control channels: 52, 36, 56
- 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: 270°
- 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

## Static Gobos

- 8x rotating glass gobos
- Image diameter: 25 mm
- Outside diameter: 30.8 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass
- Slot & lock system for easy replacement of gobos

## Rotating Gobos

- 6x rotating glass gobos
- Image diameter: 25 mm
- Outside diameter: 30.8 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass
- Patented slot & lock system for easy replacement of gobos

## Effect Wheel

- Single animation wheel
- Material: Aluminium
- Diameter: 121 mm
- Can be used alone or in combination with rotating gobos
- Rotating in both directions at 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. 3.924 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: 100–240 V, 50 / 60 Hz
- Power consumption: max. 1.150W
- 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
- Ethernet port out: RJ45 - T2 Profile FS, camera video output

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical Specification

- Height: 802 mm (31.6") - head in vertical position
- Width: 483 mm (19")
- Depth: 335 mm (13.2") - head in vertical position
- Weight: T2 Profile™: 36.9 kg (81.4 lbs)
  T2 Profile FS™: 37.5 kg (82.67 lbs)
- Ingress protection rating: IP20

## Rigging

- Mounting positions: 0°, 32°, 90°
- Universal operating position
- Mounting points: 5 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: 99016721
- RoboSpot Camera for T2 Profile FS™

## Camera (T2 Profile FS)

- Type: SNZ-6320
- Resolution: 1920 x 1080, 16:9 Full HD (1080p) resolution support
- Zoom: 32x optical zoom, 16x digital zoom
- Streaming: H.264, MPEG dual codec, Multiple streaming
- Vision: Day & Night (ICR), WDR (120dB)
- Minimum illumination: 0.3 Lux

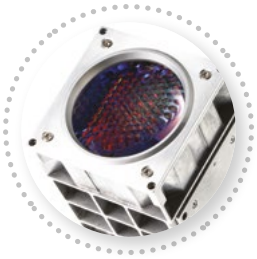
## Optional Accessories

- 7.5" Gel Frame: 10980561
- Top hat: 10980591
- Frost 0.5° (exchange) assembled: 10980581
- Frost 1° (exchange) assembled: 10980564
- Frost 5° (exchange) assembled: 10980565
- Frost 10° (exchange) assembled: 10980556
- Frost 20° (exchange) assembled: 10980577
- Frost 30° (exchange) assembled: 10980582
- Doughty Trigger Clamp: 17030386
- Omega Adaptor Tall CL-regular 2 pcs in box: 10980501
- Safety wire 50 kg: 99011957
- Single Top Loader Case: 10120271
- Dual Top Loader Case: 10120272
- Foam Shell: 20020396

## Legal

## MSL™ Multi-Spectral LED Light source

The new revolutionary MSL™ 850W LED engine (Patented) provides a fixture output reaching 22.000 lumens, high quality spectrum of CRI 95+, adjustable CCT from 2.700K to 8.000K and aditive colour mixing with CMY control mode.

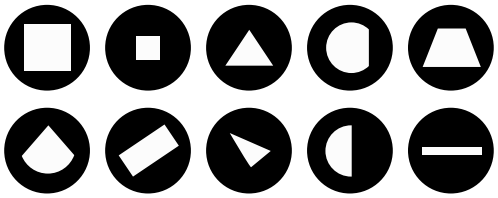


## CMY Colour Mixing

## Framing Shutters Module

T2 uses a patented Plano4™ framing shutters module with four blades which can be individually controlled, positioned and angled. The whole module can be rotated + – 60°.

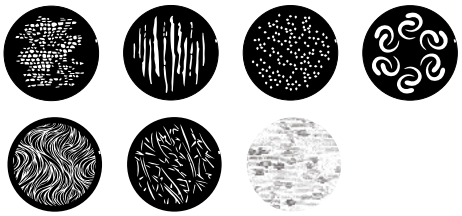
4-Plane Shutter System



## Animation Wheel

Aluminium animation wheel can be used alone or in combination with gobo.

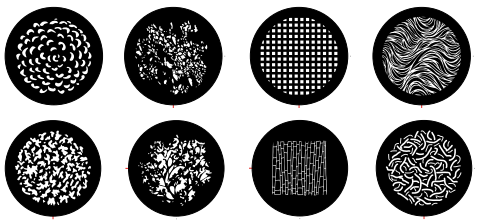
Rotating Gobo Wheel



## Gobos

T2 comprises a selection of breakup and aerial gobos designed specifically for theatrical and TV productions.

Static Gobo Wheel



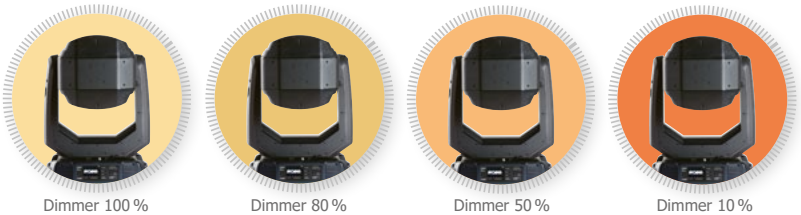
## True White Colours

Factory calibrated whites and colours via the new RCC™ Robe Colour Calibration system allow quick direct calling of whites of any colour temerature from 2.700K to 8.000K.

8.000 K | 5.600 K | 4.200 K | 3.200 K | 2.700 K

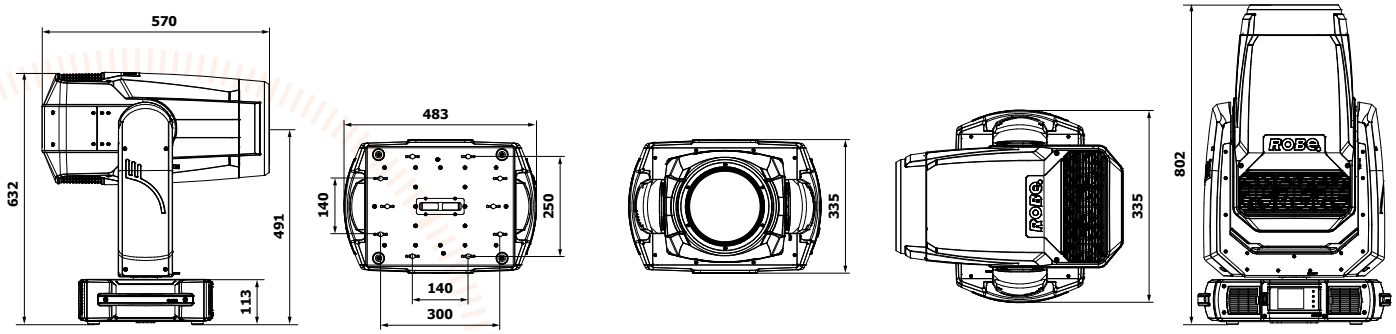
## Tungsten effect

The Halogen lamp mode provides emulation of 750W, 1.000W, 1.200W, 2.000W and 2.500W tungsten lamps. The dimmer channel initiates halogen lamp-like behaviour (red effect and thermal delay) for each lamp type during dimming.



Dimmer 100 % | Dimmer 80 % | Dimmer 50 % | Dimmer 10 %

# T2 PROFILE™




# PAiNTE®

TRANSFERABLE ENGINE

310W WHITE
TE™
LED ENGINE

15.200 lm
FIXTURE
TOTAL
LUMEN OUTPUT


ZOOM
RANGE
8° - 48°

SMALL, COMPACT
LIGHTWEIGHT
BODY
ONLY 19.6 KG

CMY
COLOUR WHEEL
VIRTUAL CTO

PLANO4™
FRAMING
SHUTTER
SYSTEM

***PAINTE® delivers the perfect compact, quiet, quality profile solution for short to medium throw scenarios in theatrical, television, installation, live or corporate settings to create your masterpiece!***

Whether broad brush strokes or adding the finest detail, PAINTE® delivers the master's touch. Colours are boundless via the advanced CMY colour mixing system. From its compact frame, PAINTE® punches way above its weight, with an impressive 15.300-lumen fixture output of sparkling, clear, white light.

Designed for noise-sensitive environments, PAINTE® features the TE™ 310W HP White LED engine from our ground-breaking TRANSFERABLE ENGINE technology. The high-performance engine gives you the ability to easily maintain light quality and consistency across your inventory.

The motorised zoom gives a range of 8° - 48°, perfect for short to medium throw applications.

Precise beam control is via our highly advanced, patented, Plano4™ four individual plane shutter system. With 120-degree module rotation, each individual blade has a full curtain effect capability.

PAINTE® is packed with Robe innovation including CPulse™ flicker-free management system and ChromaTint™ green/magenta content control for the latest camera systems; L3™ Low Light Linearity dimming software for imperceptible fades to black; AirLOC™ (Less Optical Cleaning) technology keeping the optical elements in pristine condition for far longer; EMS™ Electronic Motion Stabiliser technology for enhanced fixture stability.

The fast, feature-packed, small footprint PAINTE® lets you brush in the finest detail or boldest statement with Robe quality.

***PAINTE® - The Palette of CreativiTE***

## Source

- Light source type: **TE™ 310W HP White LED Engine** (Patented):
  - HP - High Performance Engine for maximum light output and optimal colour characteristics
  - LED Engine output: 18.500 lm
  - Fixture total lumen output: 15.200 lm (integrating sphere) 12.250 lm (goniophotometer)
  - Colour temperature output: 6.700 K
  - CRI: 70, remotely selectable filter for CRI 90
  - Illuminance: 24.000 lx @ 5 m
- Light source type: **TE™ 310W HCF White LED Engine** (Patented):
  - HCF - High Colour Fidelity Engine for the best light quality and colour rendition
  - LED Engine output: 13.000 lm
  - Fixture total lumen output: 9.800 lm (integrating sphere) 7.800 lm (goniophotometer)
  - Colour temperature output: 6.000K
  - CRI: 96, TLCI: 97, TM-30-18 Rf: 92, TM-30-18 Rg: 99
  - Illuminance: 15.300 lx @ 5 m
- LED life expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours
- Light source warranty: 4 years or 20.000 hours

## Optical System

- Robe's proprietary optical design
- High-efficiency 13-lens zoom optical system, ratio: 6:1
- Zoom range: 8°–48°
- Output lens diameter: 110mm

## Dynamic Effects and Features

- Cyan: 0–100%
- Magenta: 0–100 %
- Yellow: 0–100%
- Virtual CTO
- Colour Wheel: 9 dichroic filters + white
- Rotating gobo wheel: 8 rotating, indexable and replaceable breakup and aerial gobos + open, patented slot & lock system
- ChromaTint™ - Patented plus / minus green correction function
- Static gobo wheel: 9 gobos + open
- Full curtain framing shutters: Patented Plano4™ framing shutters module with 4 individually positionable blades plus rotation of the complete framing system +-60°
- Prism: 8-facet prism rotating in both directions at variable speed
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- MagFrost™ - magnetic paddle fast change system providing exchangeable frost containing as standard a medium 5° for even wash
- Motorized zoom and focus
- Electronic strobe effect with variable speed up to 20 Hz
- Extremely quiet operation suitable for all types of production in Theatre and TV
- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black
- 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
- 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: 2
- Control channels: 44, 45
- Pan & Tilt resolution: 16 bit
- CMY: 8 bit
- Framing shutters module movement & rotation: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Static gobo wheel positioning: 8 or 16 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: 16 bit (internal 18 bit)

## Movement

- Pan movement: 540°
- Tilt movement: 270°
- Controllable speed of Pan & Tilt movement
- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patented)
- Automatic Pan & Tilt position correction

## Rotating Gobos

- Glass gobos: 8 rotating gobos + open
- Outside diameter: 15.9 mm
- Image diameter: 12.5 mm
- Thickness: 1.1 mm
- High temperature borofloat or better glass
- Patented slot & lock system for easy replacement of gobos

## Static Gobos

- Aluminium wheel with fixed gobos: 9 gobos + open position

## Framing Shutters System

- Full curtain framing shutters: 4 Blades, each with separate movement and rotation control
- Movement: Smooth with variable speed, ultrafast blade movements for creating mid-air effects
- Rotation: +- 60° of the complete framing system

## Thermal Specification

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 80 °C (176 °F)
- Minimum operating temperature: -5 °C (23 °F)
- Total heat dissipation: max. 1126 BTU/h (calculated)

## Electrical Specification and Connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: max. 440 W
- Power connector in: Neutrik powerCON TRUE1
- 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
- cETLus Compliant

## Mechanical specification

- Height: 619 mm (24.4") - Head in vertical position
- Width: 367 mm (14.4")
- Depth: 219 mm (8.6") - Head in vertical position
- Weight: 19.6 kg (43.2 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
- Pan & Tilt transport locks

## Included Items

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON TRUE1 In connector

## Optional Accessories

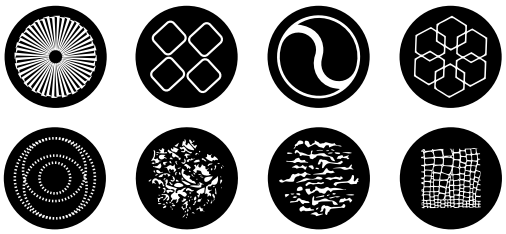
- Painte TE™ 310W HP White LED Engine: 14080078
- Painte TE™ 310W HCF White LED Engine: 14080083
- Painte TE™ 310W TGW White LED Engine: 14080099

- Frost 0.5° (exchange) assembled: 10980690
- Frost 1° (exchange) assembled: 10980691
- Frost 3.5° (exchange) assembled: 10980758
- Frost 10° (exchange) assembled: 10980693
- Frost 20° (exchange) assembled: 10980694
- Frost 30° (exchange) assembled: 10980695
- Upgrade kit EPASS Painte: 99030449
- Doughty Trigger Clamp: 17030386
- Safety wire 36 kg: 99011963
- Single Top Loader Case: 10120287
- Dual Top Loader Case: 10120288
- Quad Top Loader Case: 10120289
- Foam Shell: 20020444

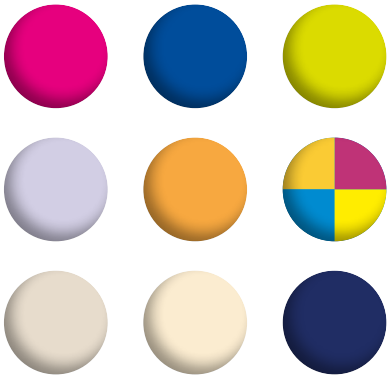
## Legal

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

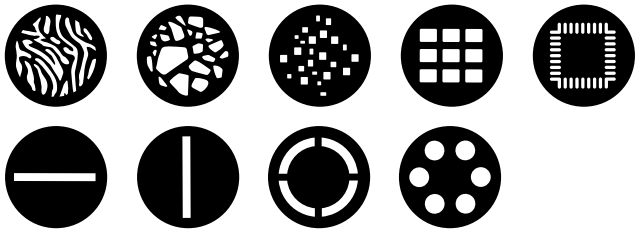

## Rotating Gobo Wheel

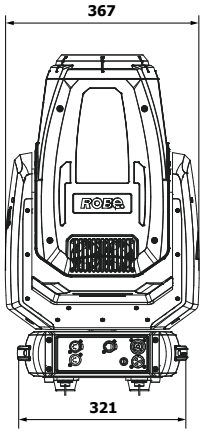


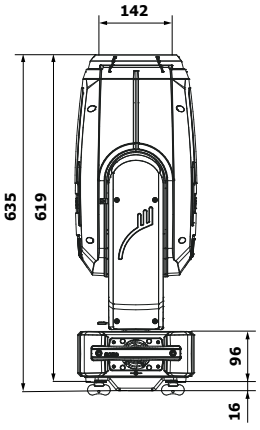
## Colour Wheel

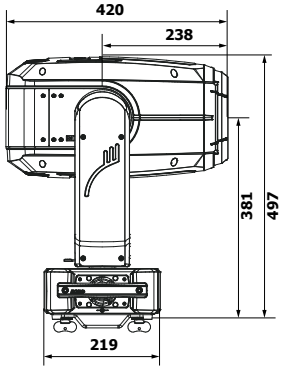


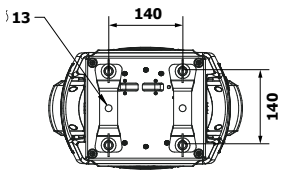
## Static Gobo Wheel





# ESPRITE®

TRANSFERABLE ENGINE

TE™
TRANSFERABLE ENGINE

# *Robe's world-first TE™ – TRANSFERABLE ENGINE guides performance lighting into the future!*

Our reputation for innovative design, hard-earned over nearly 30 years, is the result of asking questions, listening to customers, and repeatedly redefining the boundaries of technology.

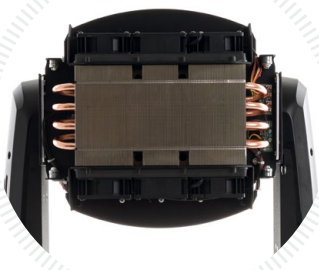
We have the most forward-thinking engineers and designers in our industry. We wanted to address the problem that white source LED engines cannot last forever and vary in colour consistency over time. The result of this intensive, and indeed extensive process is the ground-breaking **TRANSFERABLE ENGINE**.

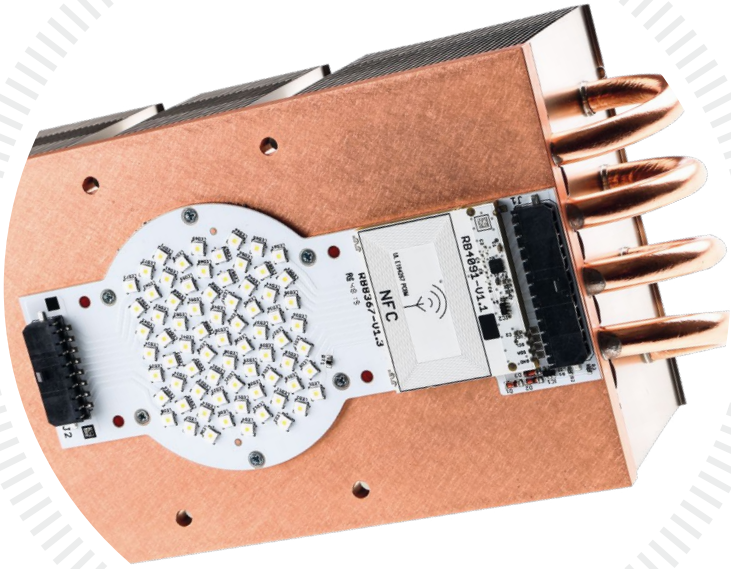
The fast change, low-cost **TRANSFERABLE ENGINE** technology ingeniously solves the problem of performance longevity for those preferring the higher brightness of white source LEDs as an obvious replacement for their ageing stock of discharge workhorses.

To ensure the very best performance and consistency, we have designed, developed, patented, and manufactured the engines all within our own factory in the Czech Republic. They provide a monumental shift in LED technology and fixture design.

Commensurate with this level of technology, every Robe **TRANSFERABLE ENGINE** has its own, unique, memory with all engine data staying with the engine. This means when you transfer the engine to a new fixture, the data travels with it.

All data stored on the **TRANSFERABLE ENGINE** is easily accessible through Near Field Communication (NFC) technology via the ROBE COM app. This provides direct access to the engine information, including engine type and serial number; full module installation history; intensity compared to initial performance; hours worked and much more. All data is available without powering the engine while sitting on your shelf, giving you instant accessibility. Furthermore, when the module is installed in a fixture, the data is available directly from the fixture display.






TRANSFERABLE ENGINE™

Our **TRANSFERABLE ENGINES** are fast-changing, taking under 5 minutes. They require no special tools, complex procedures or return to workshop or agent. With no alignment or calibration needed, you have a rapid “lamp-like” exchange.

Robe **TRANSFERABLE ENGINES** are very economical, costing approximately twice the price of high-performance discharge lamps. Combined with the advantages of LED, you now have the tools available to maintain a high level of light consistency across your inventory.

Transferable means a new engine at a lower cost, compared to a replacement engine at a far higher price. With no warranty or reduced LED lifetime issues, they carry a four-year 20.000-hour warranty.

Another benefit of the self-referencing engines is their ability, via our unique software, to give you a visual performance reference. Being able to quickly set the outputs to a consistent level, even while the fixtures are up in the rig, will save you a lot of time in the pressurised world of touring.

Robe fixtures utilising the **TRANSFERABLE ENGINES** technology have been deliberately designed with built in capacity to take advantage of possible future LED engine development. This forethought, combined with their ease of transfer, will give you an even greater luminaire longevity.

In line with our stringent Green Policy, when the engines have reached the end of their life, we have the Robe **TRANSFERABLE ENGINES** free return for recycling offer, making them very Eco-friendly.

The **TRANSFERABLE ENGINES** concept pioneers a new era in luminaires using white source LED engines. It gives you the ability to cost-effectively maintain a high level of quality light consistency across your inventory while ensuring the highest level of return on your investment.

***Robe, the recognised leader in moving light technology, has made another major leap in innovation. The new ESPRITE® Profile LED automated luminaire has a fast-change, low-cost, transferable light engine ingeniously solving the problem of performance longevity for those preferring the higher brightness of white source LEDs as an obvious replacement for their aging stock of discharge workhorses.***

With our unique, ground-breaking TRANSFERABLE ENGINE technology, we offer a selection of engines. The TE™ 650W HP White LED Engine (HP - High Performance) maximizes output, while the TE™ 650W HCF White LED Engine (HCF - High Colour Fidelity) ensures exceptional colour rendition. Additionally, the TE™ 650W TGW White LED Engine (TGW – Tungsten White) simulates the comforting warmth of tungsten lighting.

Now you can fit either engine within the same fixture, without alignment or warranty issues, within five minutes! Without the expense, and complication of needing to have separate luminaires with differing sources, TRANSFERABLE ENGINES give you the right engine, in the right fixture, at the right time!

The revolutionary self-referencing, data capturing engines are all designed, developed and manufactured within our own factory (Patents pending). Performance remains uncompromised with the TE™ 650W HP White 6.700 K LED Engine producing a piercing 34.000 lm, while the TE™ 650W HCF White 6.000 K LED Engine offers 23.000 lm with an exceptional inherent CRI of 96. The TE™ 650W TGW White 3.200 K LED Engine generates 19.500 lm with a CRI of 97, all measurements being integrating sphere. The L70/B50 ratings of 50.000 hours assure longevity.

This is enhanced by our legendary precision optics to produce crystal clear white light. The comprehensive feature set includes: Flat field CMY mixing; variable CTO; remotely selectable CRI 70/80/90 (HP Engine); two fast colour wheels; rotating and static gobo wheels; 6-facet rotating prism; 1° soft edge and 5° even wash frosts; an animation wheel and spectacular multi-colour effects. Quick, accurate, easy framing is provided via our patented fast framing shutter module with individual blade control and +/-60° rotation capability for extra fine control. The ESPRITE® Profile by design removes any airflow over the optics, resulting in reduced residue deposits thus extending periods between cleaning.

Furthermore, the unique Hot-Spot feature allows you to move from a flat field beam to a 6:1 ratio hot-spot beam giving uniform intensity when overlaying beam edges to create smooth washes of light. The Cpulse™ flicker-free management system operates beautifully with the latest HD and UHD camera systems. ChromaTint™ gives full green/magenta content control, with L3™ Low Light Linearity dimming for ultra-smooth fade to black for seamless integration into traditional lighting rigs.

The ESPRITE® FS is equipped with the digital camera on the head and can be connected with the RoboSpot™ BaseStation for off-stage follow spot operation.seamless integration with traditional lighting rigs.

## Source

- Light source type: **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: 34.000 lm (integrated sphere) 27.000 lm (goniophotometer)
  - Colour temperature output: 6.700K
  - CRI: 70, remotely selectable filters for CRI 80 and CRI 90
  - Illuminance: 85.000 lx @ 5 m
- Light source type: **TE™ 650W HCF White LED Engine** (Patented)
  - HCF - High Colour Fidelity Engine for the best light quality and colour rendition
  - LED Engine output: 37.500 lm
  - Fixture total lumen output: 22.800 lm (integrated sphere) 18.300 lm (goniophotometer)
  - Colour temperature output: 6.000K
  - CRI: 96, TLCI: 97, TM-30-18 Rf: 92, TM-30-18 Rg: 99
  - Illuminance: 59.000 lx @ 5 m
- Light source type: **TE™ 650W TGW White LED Engine** (Patented)
  - TGW - Simulates the comforting warmth of tungsten lighting
  - LED Engine output: 30.250 lm
  - Fixture total lumen output: 19.500 lm (integrated sphere) 15.700 lm (goniophotometer)
  - Colour temperature output: 3.200K
  - CRI: 97, TLCI: 97, TM-30-18 Rf: 93, TM-30-18 Rg: 102
  - Illuminance: 50.000 lx @ 5 m
- LED life expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours
- Light source warranty: 4 years or 20.000 hours

## Optical System

- Robe's proprietary optical design
- High-efficiency 13-lens zoom optical system, ratio 9:1
- Zoom range: 5.5° - 50°
- Output lens diameter: 150 mm

## Dynamic Effects and Features

- Cyan: 0–100%
- Magenta: 0–100%
- Yellow: 0–100%
- Variable CTO: 3.000K - 6.700K
- ChromaTint™ - patented plus / minus green correction function
- Colour Wheel 1: 5 fixed dichroic colours + white
- Colour Wheel 2: 5 fixed dichroic colours + white
- 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, patented slot & lock system
- Static gobo wheel: 9 static and replaceable gobos + open
- Animation wheel: Aluminium animation wheel, used alone or in combination with gobos, rotating in both directions at variable speed
- Prism: 6-facet prism rotating in both directions at variable speed
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- MagFrost™ - magnetic paddle fast change system providing exchangeable frosts containing as standard a very light 1° for instant softening of the projected gobo or framing shutters, and a medium 5° for even wash, both specifically selected for theatre and TV use
- Hot-Spot: from flat field to 6:1 hot-spot
- Motorized zoom and focus
- Electronic strobe effect with variable speed up to 20 Hz
- High resolution electronic dimming: 0–100%
- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black
- 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 operatiowith 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
- 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: 4
- Control channels: 49, 42, 50, 43
- Pan & Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- + - Green correction: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Framing shutters module movement & rotation: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Static gobo wheel positioning: 8 bit
- Animation wheel: 8 bit
- Animation wheel 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
- EMS™ - Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patented)
- Automatic Pan & Tilt position correction

## Rotating Gobos

- 7x rotating glass gobos
- Outside diameter: 26.8 mm
- Image diameter: 23.5 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass
- Patented slot & lock system for easy replacement of gobos

## Static Gobos

- 9x static glass gobos
- Outside diameter: 26.8 mm
- Image diameter: 23.5 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass

## 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
- 4 Blades, each with separate movement and rotation control
- Smooth movement with variable speed control ultrafast blade movements for creating mid-air effects
- Pre-programmed Shape and blade sequences
- Rotation +- 60° of the complete framing system

## Camera - ESPRITE FS

- Type: SNZ-6320
- Resolution: 1920 x 1080, 16:9 Full HD (1080p) resolution support
- Zoom: 32x optical zoom
  16x digital zoom

- Streaming: H.264, MPEG dual codec, Multiple streaming
- Vision: Day & Night (ICR), WDR (120dB)
- Minimum illumination: 0.3 Lux

## Thermal Specification

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 80 °C (176 °F)
- Minimum operating temperature: -5 °C (23 °F)
- Total heat dissipation: max. 2430 BTU/h (calculated)

## Noise Levels

- Sound pressure level: 27 dB(A) at 1 m (quiet mode)
  42 dB(A) at 1 m (auto mode)
- Sound power level: 35 dB(A) (quiet mode)
  50 dB(A) (auto mode)

## Electrical Specification and Connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: Standard mode max. 870 W
  at 230 V / 50 Hz
  High-power mode max. 950W
  at 230 V / 50 Hz
- Power connector in: Neutrik powerCON TRUE1
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45 - ESPRITE Profile
- Ethernet port in: RJ45 - ESPRITE FS, camera video output
- Ethernet port in/out: RJ45 (instead of 3-pin XLR) - ESPRITE Profile & FS, for Embedded Epass® switch 10/100 Mbps - on request
- USB connector (series A) for lightmaster purposes

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical specification

- Height: 733 mm (28.9")
- Width: 443 mm (17.4")
- Depth: 264 mm (10.4") - head in vertical position
- Weight: ESPRITE 28.2 kg (62.2 lbs)
  ESPRITE FS 29.4 kg (64.8 lbs)
- Ingress protection rating: IP20

## Rigging

- Mounting positions: Horizontally or vertically
- Universal operating position
- Mounting points: 5 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
- Power cord including powerCON TRUE1 In connector
- RoboSpot Camera for ESPRITE FS

## Optional Accessories

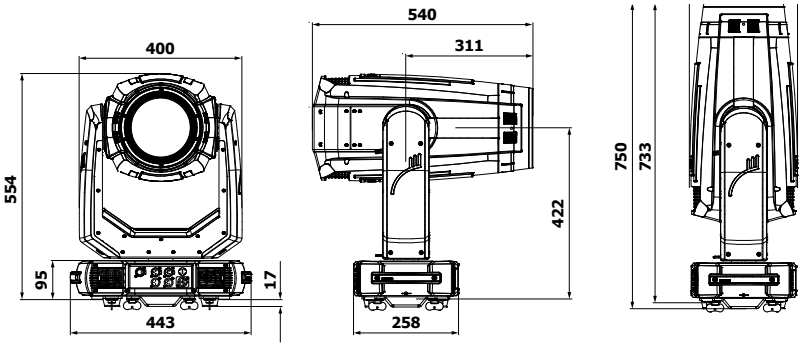
- Esprite TE™ 650W HP White LED Engine: 14080066
- Esprite TE™ 650W HCF White LED Engine: 14080071
- Esprite TE™ 650W TGW White LED Engine: 14080079
- Frost 0.5° (exchange) assembled: 10980583
- Frost 10° (exchange) assembled: 10980497
- Frost 20° (exchange) assembled: 10980574
- Frost 30° (exchange) assembled: 10980584
- Top Hat: 10980568
- Hot-Spot lens in gobo holder: 10980483
- Gel frame adaptor: 10980463
- Gel frame: 10980464
- Doughty Trigger Clamp: 17030386
- Omega Adaptor Tall CL-regular 2 pcs in box: 10980501
- Safety wire 35 kg: 99011963
- Single Top Loader Case: 10120254
- Dual Top Loader Case: 10120255
- Foam Shell: 20020357
- Top Hat: 10980568

## Legal

- ESPRITE® is Registered Trademark of Robe lighting s. r. o.
- ESPRITE® and ESPRITE® FS are patented by Robe lighting s. r. o. and protected by one or more pending or issued patents

## Colour Wheel 1

## Colour Wheel 2

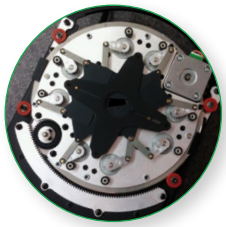


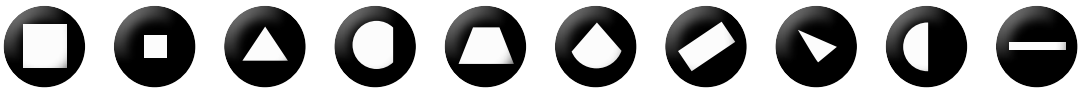

## Static Gobo Wheel

## Rotating Gobo Wheel

## Framing Shutters Module

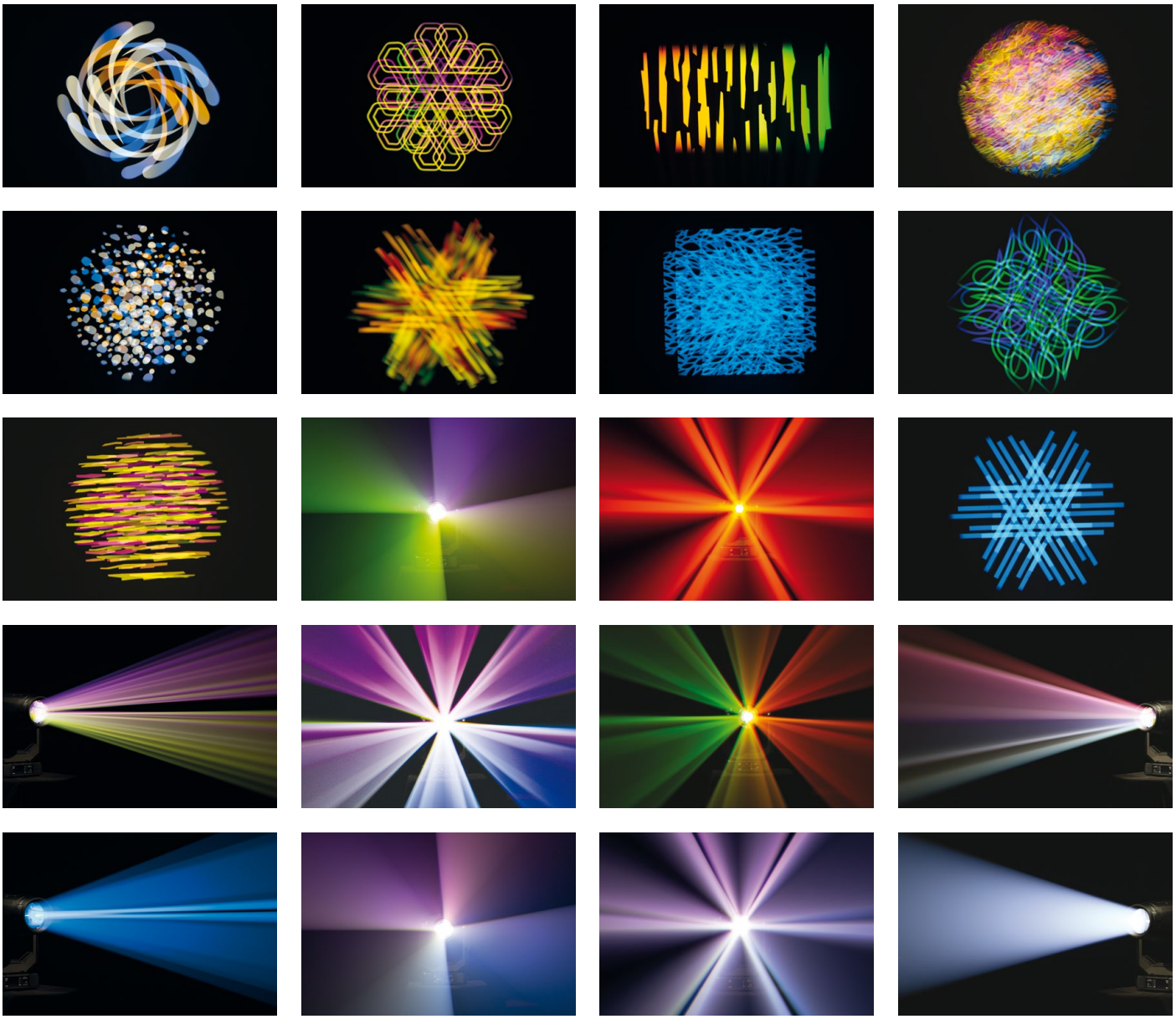
ESPRITE® uses Robe's patented Plano4™ system of four, fast, smooth moving, shutter blades, which can be individually angled and positioned. The whole module assembly can further rotate +- 60 degrees. Thanks to the unique design, all four blades can be focused at the same time and can be further softened by applying a light 1° frost giving the edges soft diffusion which is required in TV and Theatres. Shutters are precisely calibrated in the factory to ensure maximum accuracy and repeatability of programmed framing shapes.





## Impressive Aerial and Graphic Effects

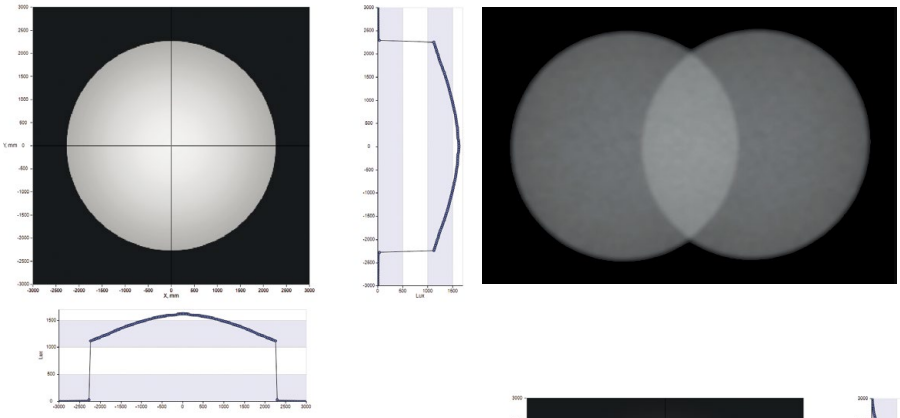
ESPRITE® will excite you with numerous possibilities for animations and mid–air effects thanks to two gobo wheels with carefully selected break-up and aerial gobos which can be further combined with a 6-facet rotating prism, animation wheel, split colours and a special multi-colour filter. By using these features, you will achieve interesting animations and effects like clouds, rain, water, fire and more abstract morphing images.



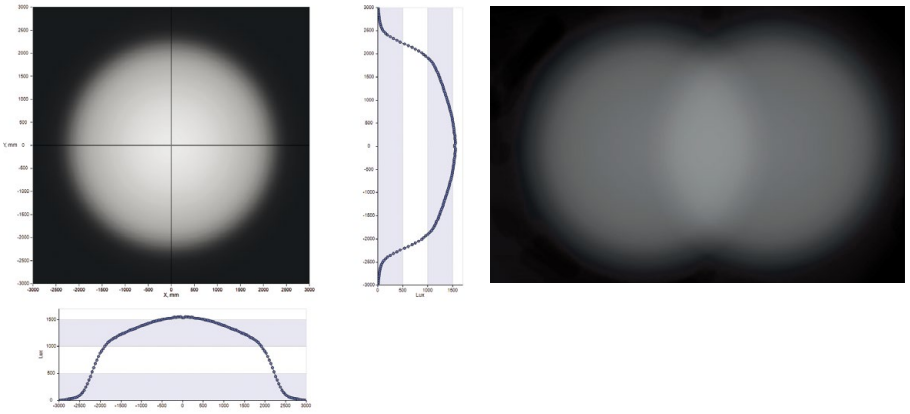
# Hot-Spot

ESPRITE® Profile produce a beautifully even, flat field of light. Whilst ideal for most applications, the perfect field makes it difficult to achieve smooth, continuous washes of light when the beam edges of multiple fixtures are overlapped.
By introducing our unique, patented, 6:1 ratio Hot-Spot lens, we can alter the field characteristics creating a centre weighted, peaked beam. With the addition of the frost filter, you can now effortlessly achieve silky smooth washes. This exclusive lens further enhances the feature rich ESPRITE® Profile, making it the most versatile Profile available.

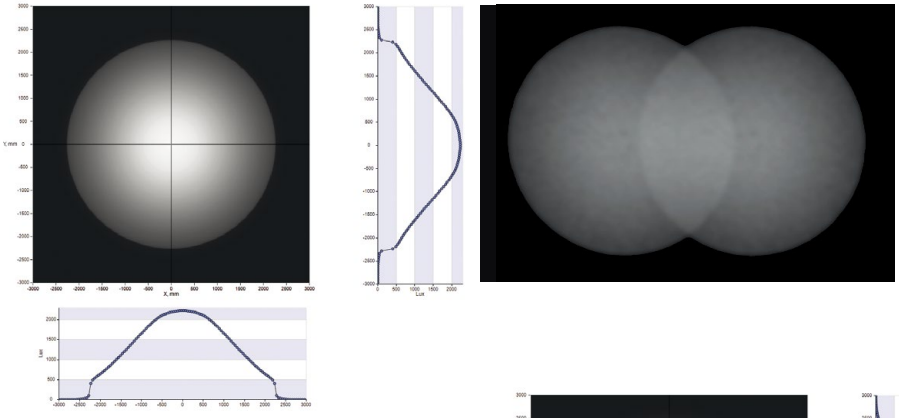
Flat field beams without Frost



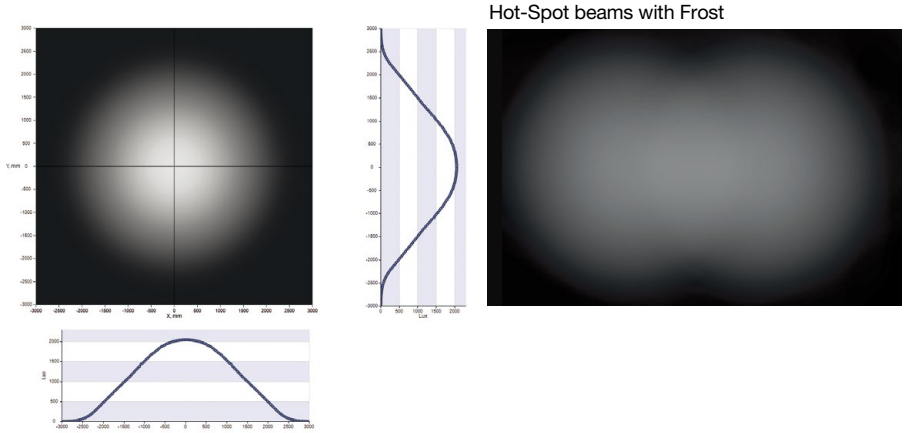
Flat field beams with Frost



Hot-Spot beams without Frost



Hot-Spot beams with Frost

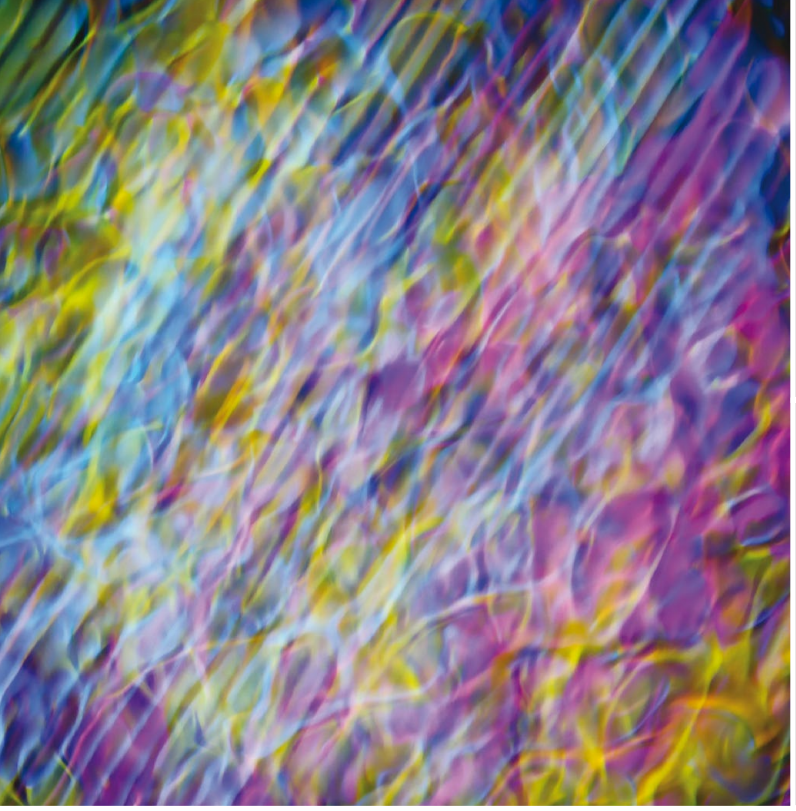


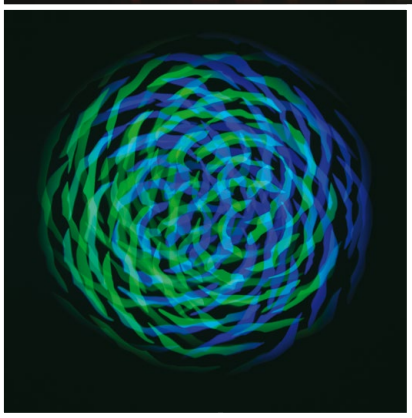
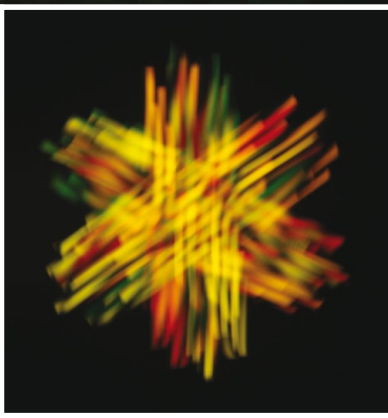
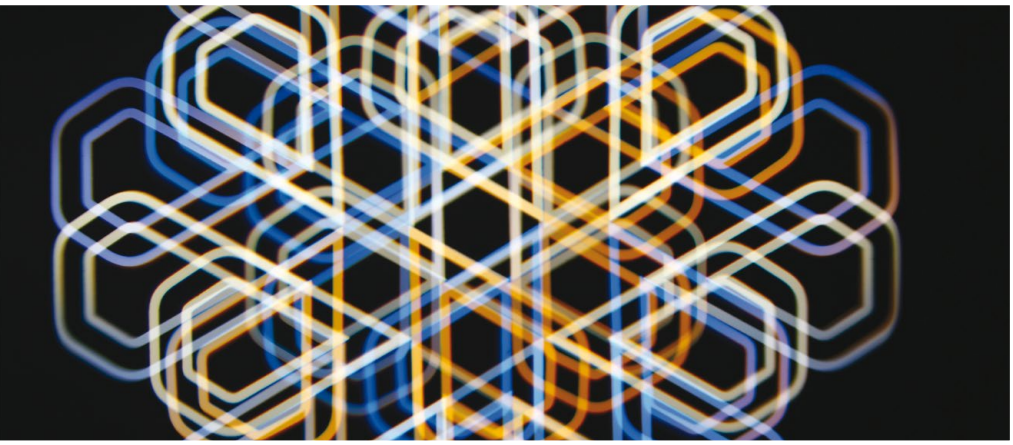
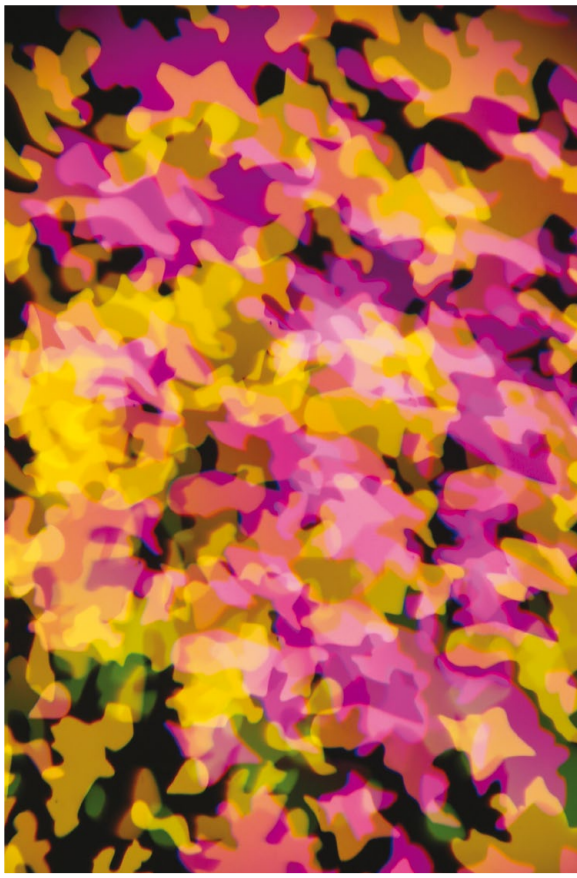
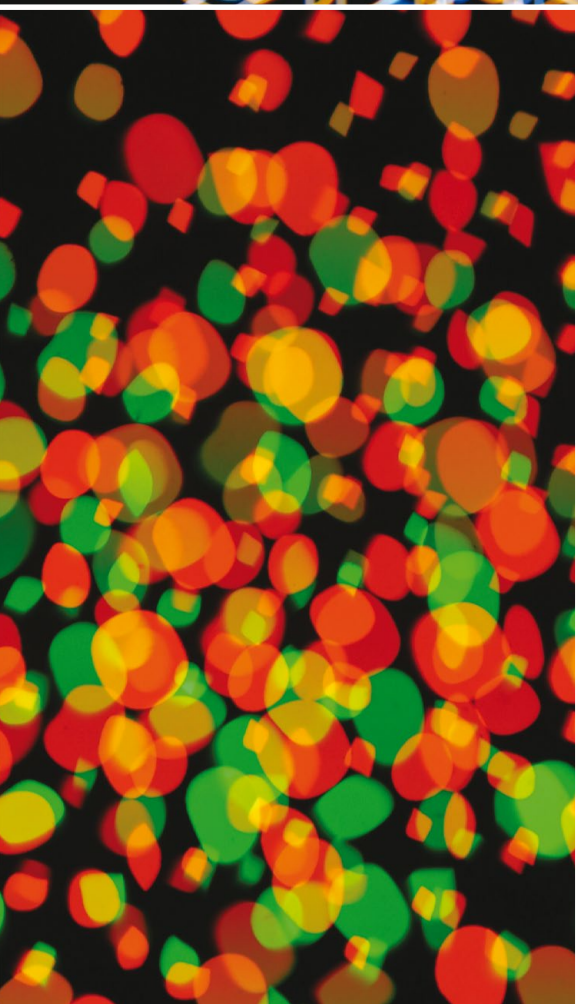
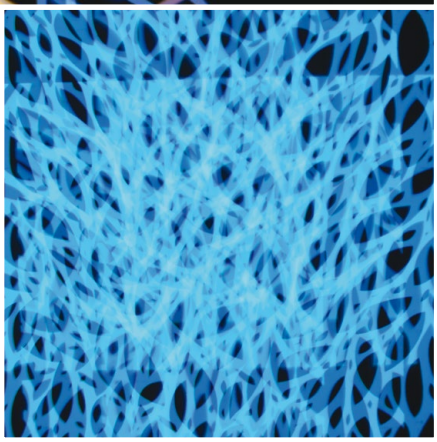
# ESPRITE® Profile






# ESPRITE® FS




# Tetra2™

ROBE®

***TETRAgnatha's are linear bars, built on the highly successful Spiider and Tarrantula technology. TETRA2™ is the larger format of the TETRAgnatha duo.***

Generating an ultra-tight 4° beam from each of the 18 pixels, they combine to produce a bright, defined "sheet" of light, desired by Lighting Designers. Seamless curtains of light can be constructed using several fixtures as the detailed design allows any combination of TETRA1™ and TETRA2™ to be placed end-to-end on stage or truss, whilst maintaining equal spacing between pixels. With the addition of two exclusive Robe patented MCFE™ - Multi - Coloured Flower Effects - the pixel-driven TETRA2™ sets itself apart from others by projecting charismatic in-air animations.

The homogenised beams, together with the smooth 11:1 zoom, provide a wash out to 45°, a footlight, a wall graze or dynamic in-air effects with fast-paced sweeping movements. Utilizing our latest L3™ (Low Light Linearity) dimming system for an imperceptible fade to black, the 18-bit control provides ultra-smooth colour mixing across the full colour spectrum. An embedded Ethernet switch and wide range of protocols (sACN, Art-Net or Kling-Net) allow a quick network installation and ease of control from media servers, DMX or the internal effects engine.

## Source

- Light source type: 18x 40W RGBW LEDz multichips
- LED life expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours

## Optical System

- Robe's proprietary optical design
- Zoom range: 4°- 45°
- Highly efficient component optics
- Fixture total lumen output: 10.500 lm (integrating sphere)
  8.439 lm (goniophotometer)

## Dynamic Effects and Features

- Colour mixing mode RGBW or CMY
- Individual control of each RGBW pixel
- Variable CCT: 2.700K – 8.000K
- Tungsten lamp effect: 750W, 1.000W, 1.200W, 2.000W, 2.500W lamp emulation for whites from 2.700K to 4.200K (red shift and thermal delay)
- DataSwatch™ filters: pre-programmed 237 colours and tones including most used whites 2.700K, 3.200K, 4.200K, 5.600K and 8.000K
- Pre-programmed pixel effects with colour, dimming and strobe chases, waves and pulses at variable speed and direction
- 2x MCFE™ - Multi-Coloured Flower Effects – creating spectacular multicolour beam effects in the air rotating in both directions at variable speed (Patented)
- Motorized zoom
- 2 independent zoom zones
- Pre-programmed random strobe & pulse effects
- Electronic strobe effect with variable speed up to 20 Hz
- High resolution electronic dimming: 0 – 100 %
- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black

## Control and Programming

- Setting & Addressing: 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 88 steps), built-in analyser for easy fault finding
- Protocols: USITT DMX-512, RDM, Art-Net, MA Net, MA Net2, sACN, Kling-Net
- REAP™ - Robe Ethernet Access Portal
- Wireless CRMX™ technology from Lumen Radio - on request
- DMX Protocol modes: 6
- Control channels: 34, 56, 97, 115, 110, 128
- RGBW / CMY: 8 or 16 bit
- Zoom: 8 or 16 bit
- Dimmer: 8 or 16 bit (internal 18 bit)

## Movement

- Tilt movement: 191°
- 16 bit movement resolution
- Controllable speed of Pan & Tilt movement

## Thermal Specification

- Maximum ambient temperature: 40°C (104°F)
- Maximum surface temperature: 70°C (158°F)
- Minimum operating temperature: -5°C (23°F)

## Electrical Specification and Connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: 600W at 230 V / 50 Hz
- Power connector in/out: Neutrik powerCON TRUE1 in/out
- DMX and RDM data in/out: Locking 5-pin XLR
- Ethernet port in/out: RJ45
- Embedded Ethernet switch 10/100 Mbps

## Mechanical Specification

- Height: 279 mm (10.98") - head in vertical position
- Width: 1007 mm (39.6")
- Depth: 192 mm (7.56") - head in horizontal position
- Weight: 18.1 kg (39.9 lbs)
- Ingress protection rating: IP20

## Rigging

- Mounting points: 2 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks
- Universal operating position
- Safety cable attachment point

## Included Items

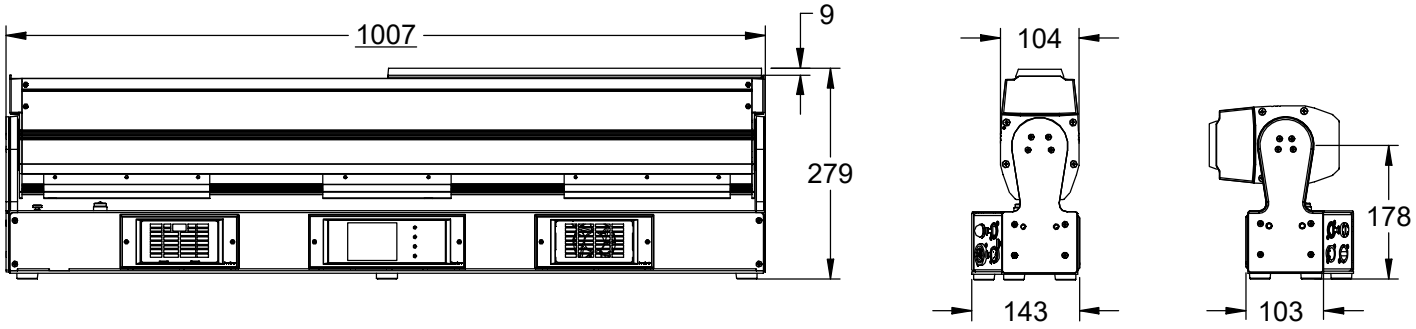
- User Manual
- Power cord including powerCON TRUE1 In connector

## Optional Accessories

- Safety wire 35 kg
- Daisy Chain powerCON TRUE1 In/Out, EU, 2m, Indoor: 13052439
- Daisy Chain powerCON TRUE1 In/Out, US, 2m, Indoor: 13052440
- Daisy Chain powerCON TRUE1 In/Out, EU, 5m, Indoor: 13052444
- Single Top Loader Case: 10120259
- Triple Top Loader Case: 10120264
- Foam Shell: 20020371
- Omega Adaptor CL-variable 2pcs in box: 10980550

## Legal

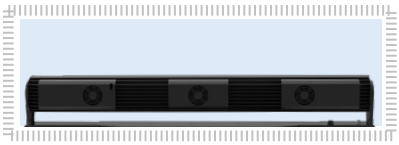
- Tetra2™ is a Trademark of Robe lighting s. r. o.
- Tetra2™ is patented by Robe lighting s. r. o. and protected by one or more pending or issued patents




Tetra2™

## True White Colours

Spotless colormixing of specially calibrated LEDs together with predefined values on a Virtual Colour wheel channel allow quick direct calling of exact white hues of 2.700K, 3.200K, 4.200K, 5.600K and 8.000K.






## Tungsten Effect

The Halogen lamp mode provides emulation of 750W, 1.000W, 1.200W, 2.000W and 2.500W tungsten lamps.
The dimmer channel initiates halogen lamp-like behavior (red effect and thermal delay) for each lamp type during dimming.



## LED Colours

Tetra2™ is able to produce 4.300 from pastel to saturated colours.

## Proprietary Optical System

Robe RnD have designed a very efficient 11:1 zoom optical system with a range from 4° to 45° (Patent pending).

## Lens Coating Technology

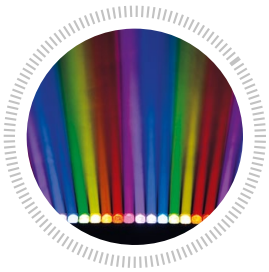
The innovative lens coating technology protects soft plastic lenses against "surface scattering" even when scrubbed repeatedly. Anti-static properties prolong the time period before the lenses will collect dust and create white maps on the lens surface. The new coating brings countless benefits including longer intervals between cleaning, bright and clear lenses, no scratches or marks, and higher light output (Patent pending).

## Innovative Flower Effect

The innovative MCFE™ - Multi-Coloured Flower Effect creates sharp colourful spikes of light, rotating in both directions at variable speed, adding new visual effect to the show (Patented).

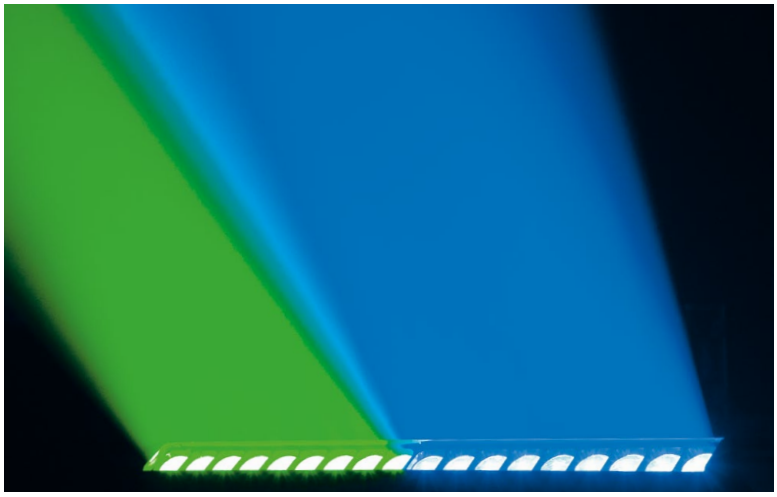
## Pixel Control

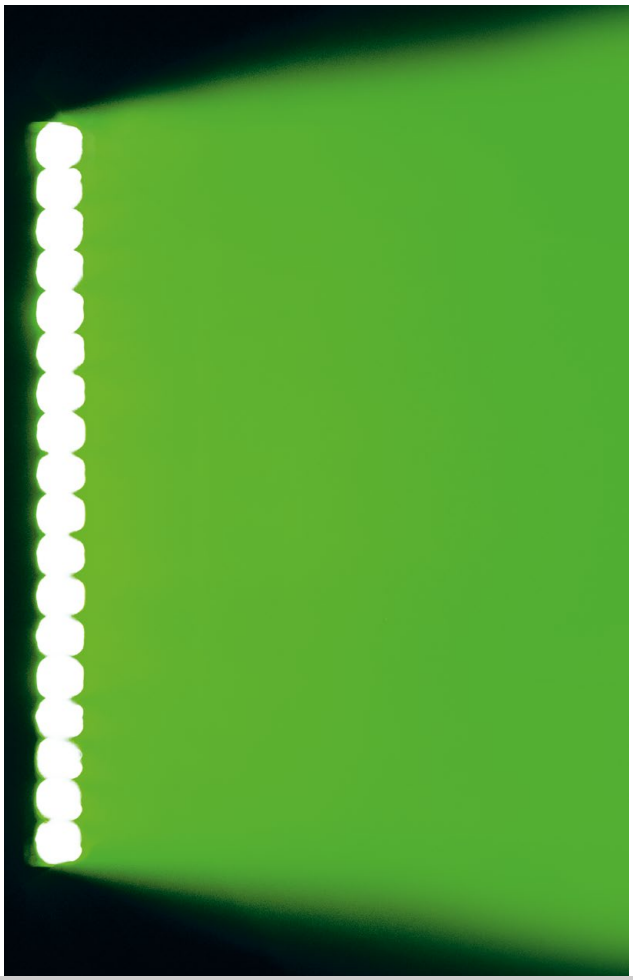
Individual pixel control of each LED via DMX or Kling-Net protocols allows to turn the fixture to the low res screen or to create variety of spectacular beam effects in the air.

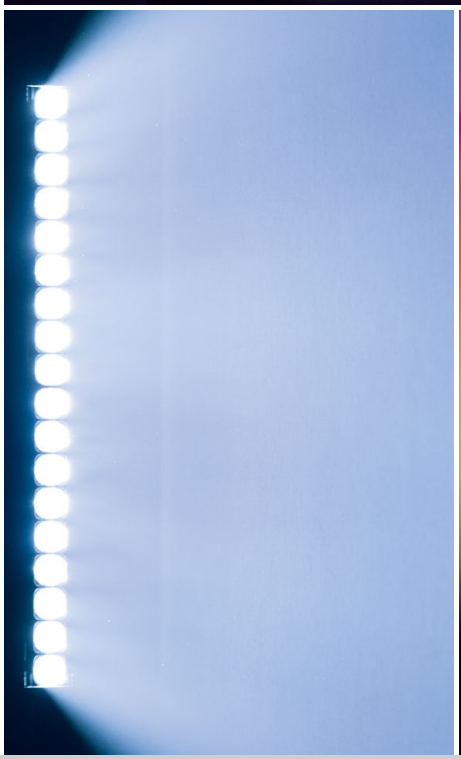


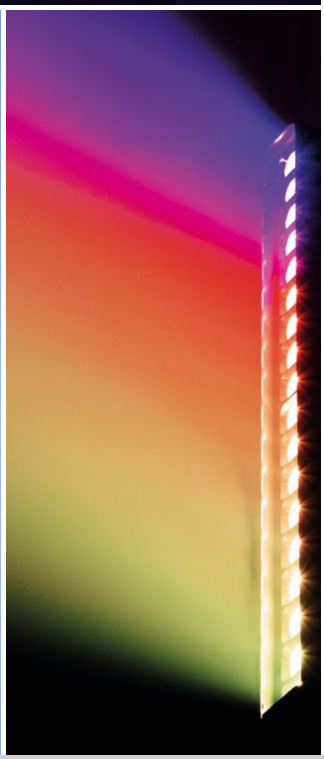
Tetra2™

# Sheet of light



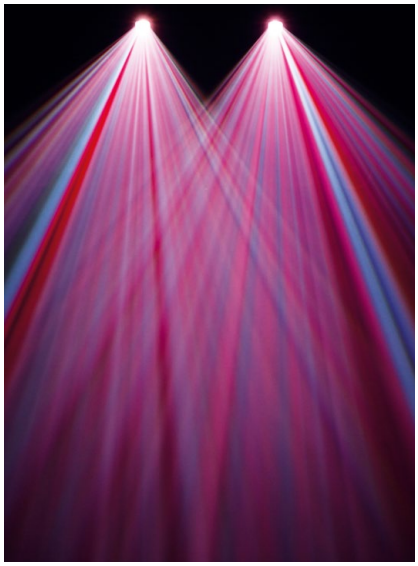


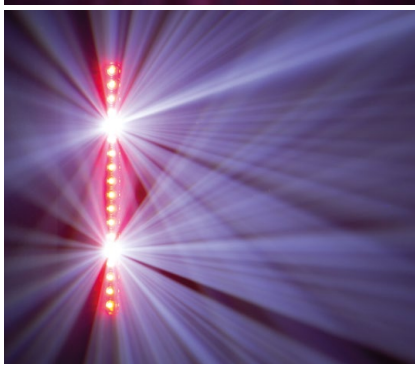


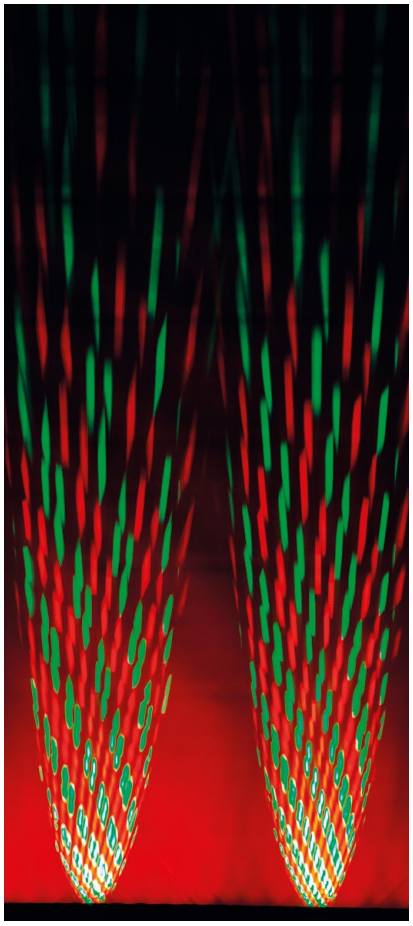


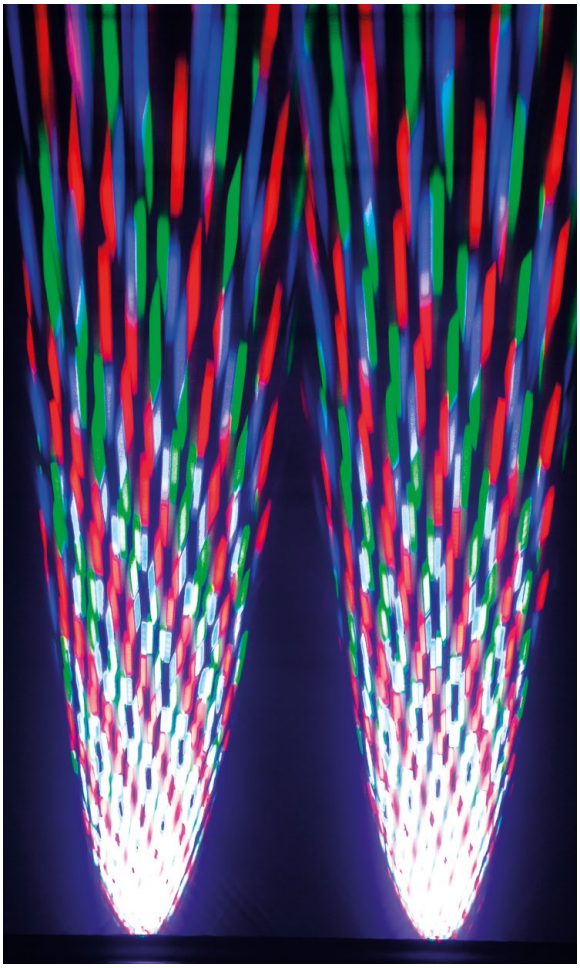
Tetra2™

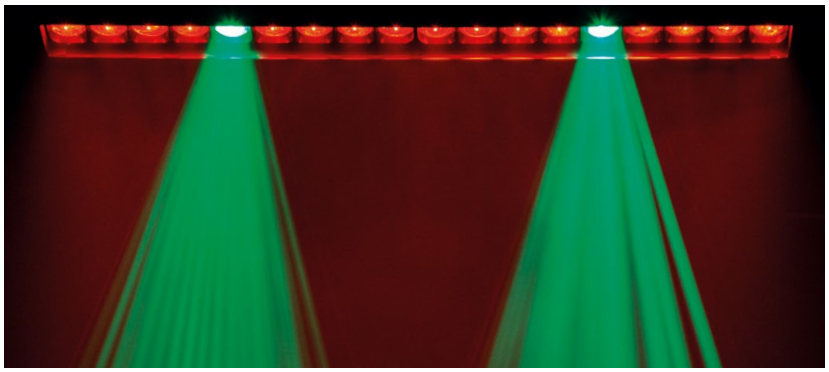
# Flower effect

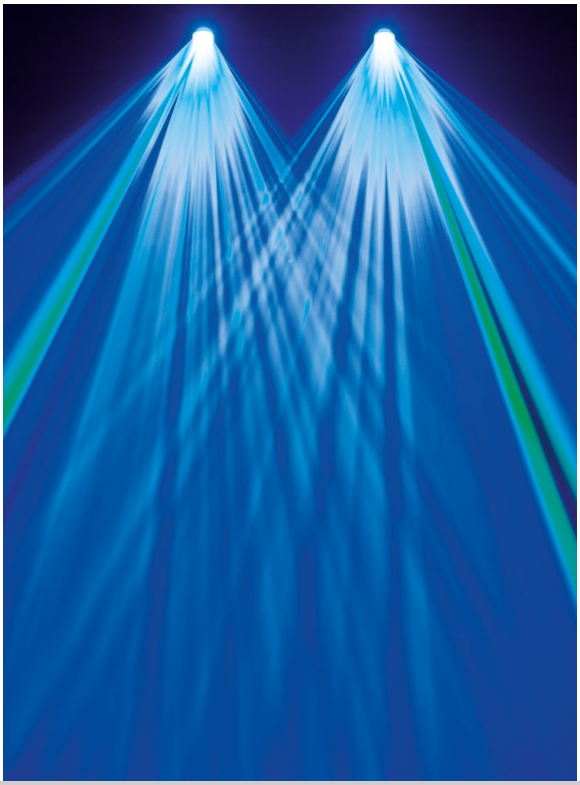


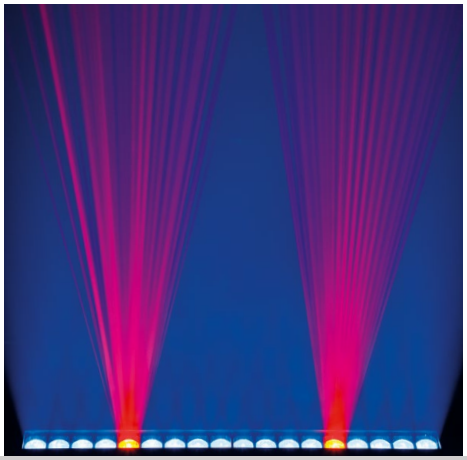


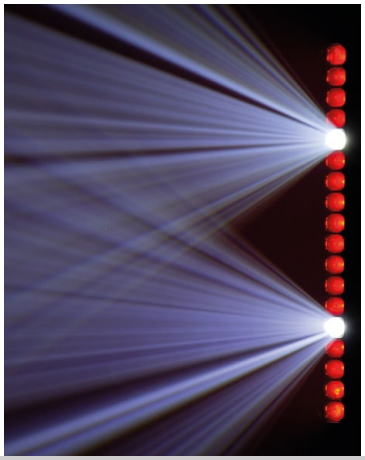






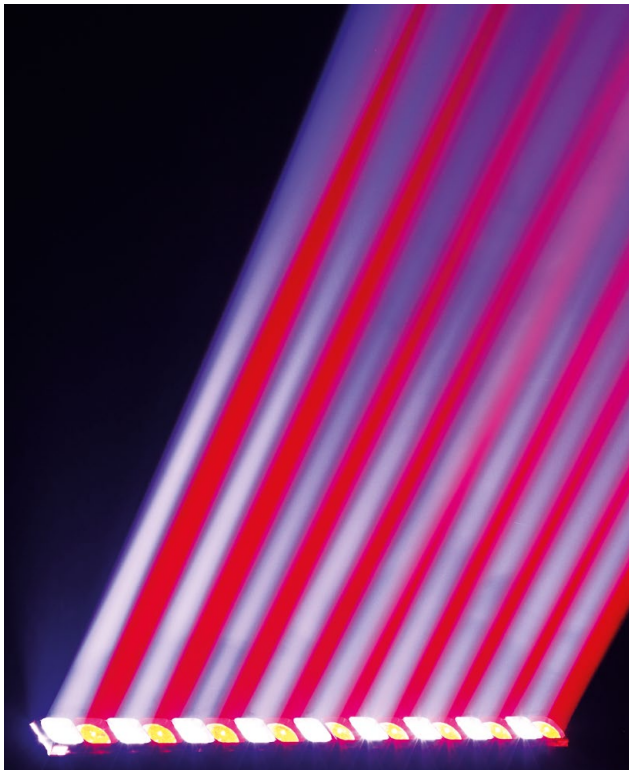


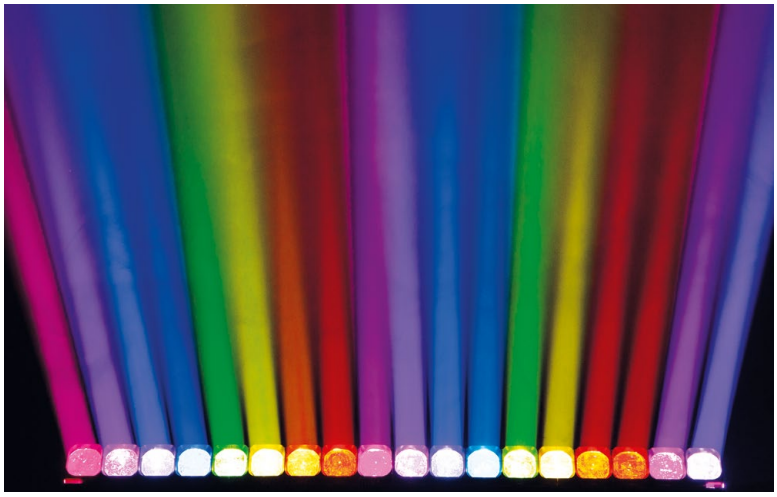


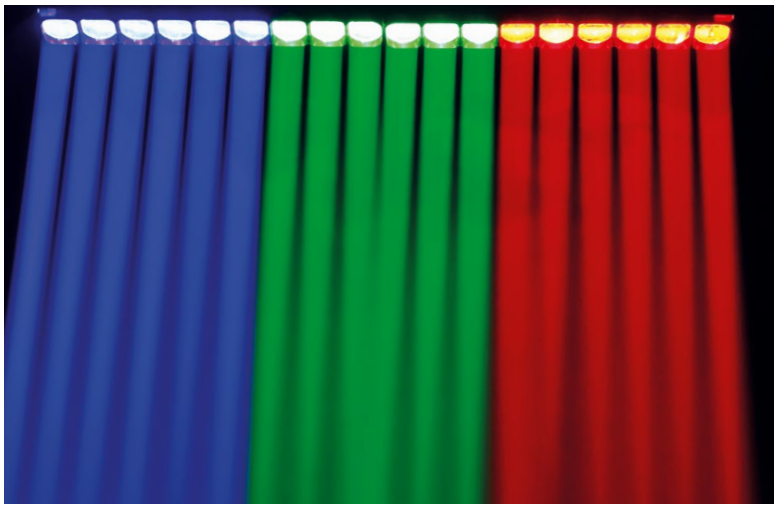


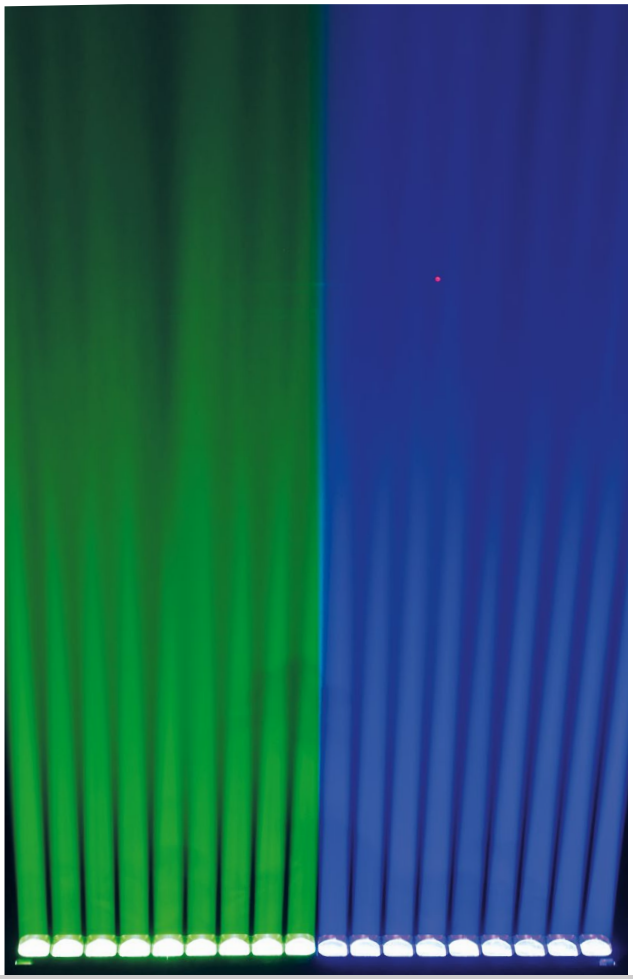
Tetra2™

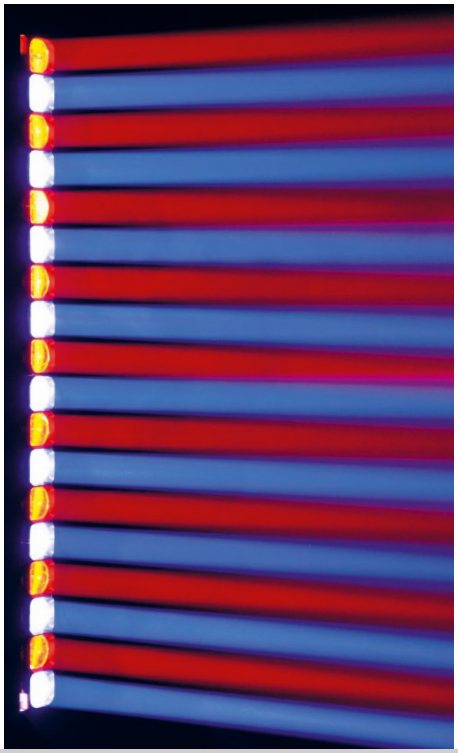
# Beam light

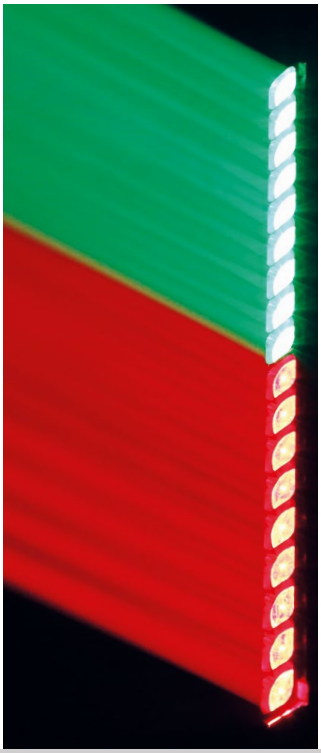






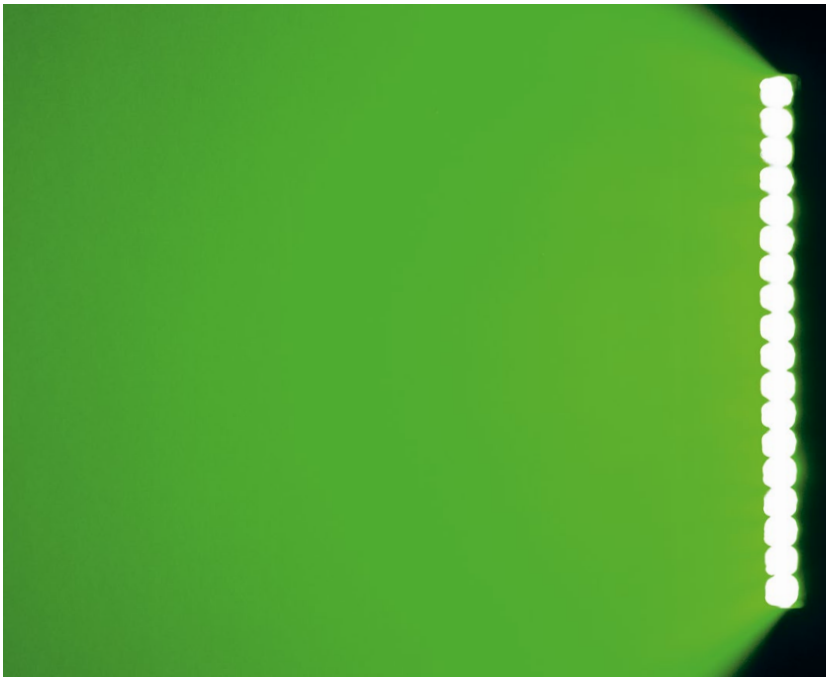


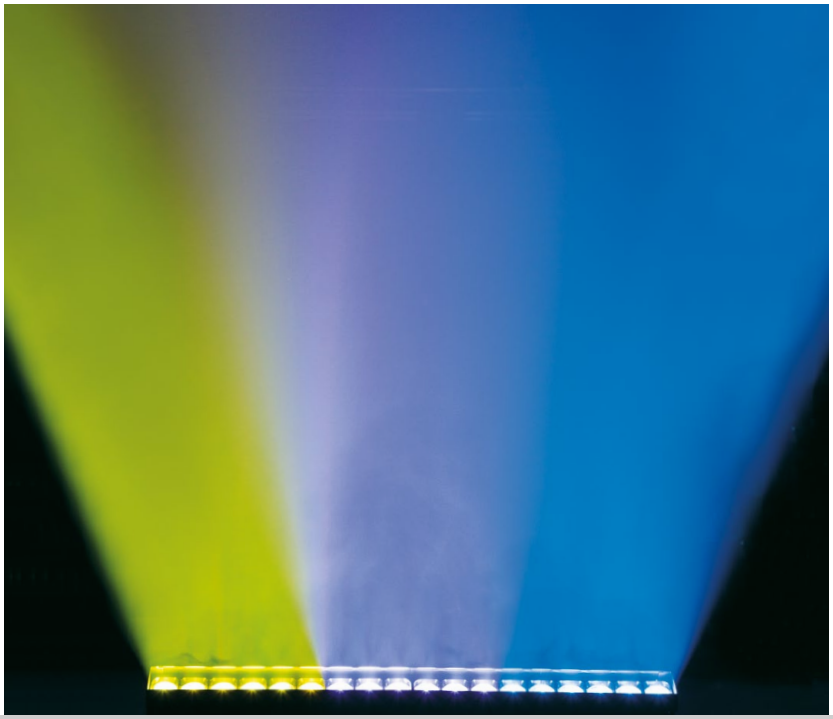


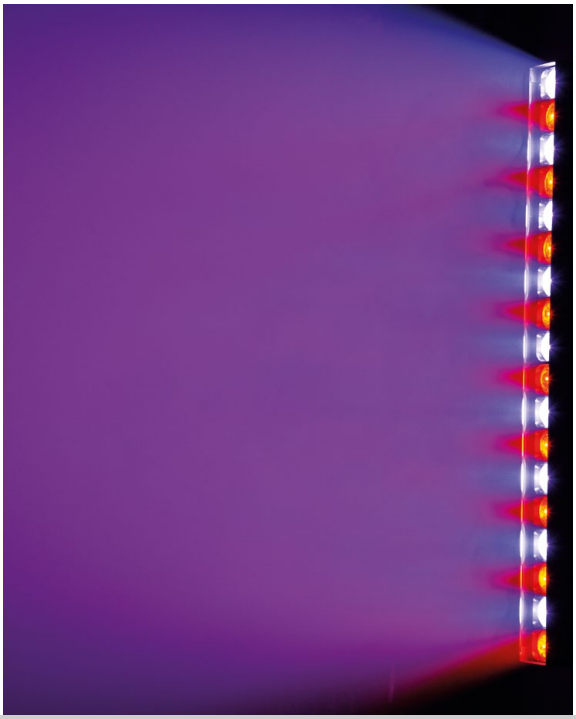


Tetra2™

# CYC & Wash light



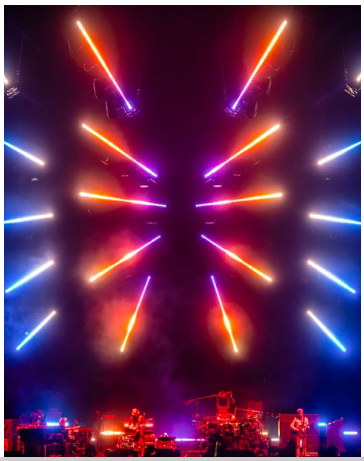




Tetra2™

Phish Summer Tour

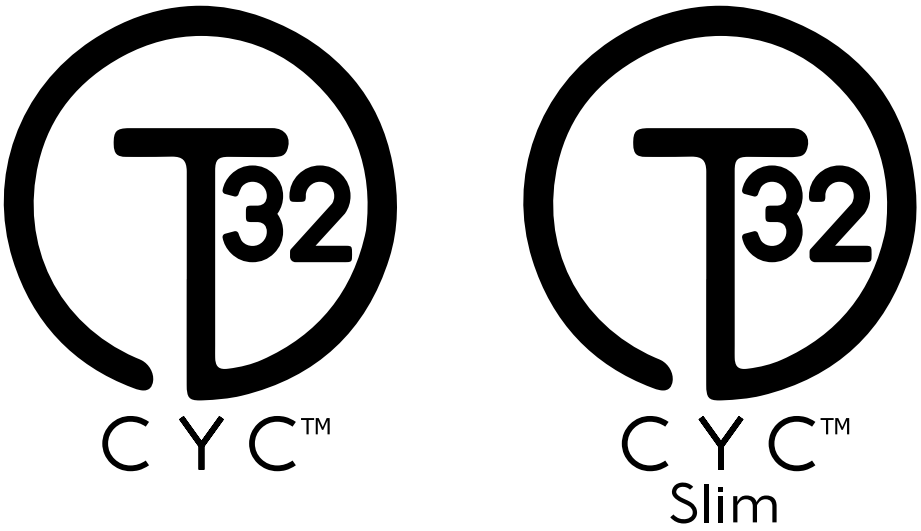
Photo credit: © Andrew Giffin



Tetra2™


CYC™

ROBE®




Designed in collaboration with the world's leading lighting designers, Opera Houses and Theatres, the T32 Cyc™ and smaller footprint T32 Cyc™ Slim attain greater reach, smoother coverage, and visual impact than previously possible from LED cyclorama luminaires.

They contain powerful RGBBAL multi-chip LEDs to generate high output levels. With an industry-leading 6:1 height-to-distance ratio, the classic asymmetric beam and on the T32 Cyc™ version only VertiSpot™ BARS™ and MAPS™ technologies provide more control than previously possible to give increased, smoother reach and coverage, even from close proximity to the cyclorama, leaving more stage space for performers.

Incorporating unique, innovative systems and technologies, including:

**MSL™** - Multi-Spectral RGBBAL light source for T-series consistency with adjustable CCT from 2.700 K to 8.000 K, CRI 96, TLCI 97

**DataSwatch™** - Fast selection of the most trusted colours and tones

**VertiSpot™** - Motorised vertical crossover point control for superior blending and vertical output variance for T32 Cyc™ (Patented)

**Opti-6™** - A 6:1 height-to-distance ratio asymmetrical optical system, producing a flat uniform field coverage even within close proximity to the cyclorama (Patented)

**MAPS™** - Motionless Absolute Positioning System for T32 Cyc™ VertiSpot™ control (Patented)

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

**Cpulse™** - Special flicker-free management system for all vision systems

**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

From the top or base of the cyclorama, T32 Cyc™ contains features that separate it from the T32 Cyc™ Slim. The patented motorised VertiSpot™ provides vertical crossover point control, superior blending and vertical output variance.

Our MAPS™ (Patented) Motionless Absolute Positioning System provides T32 Cyc™ stationary reset without motion, allowing discreet resetting and power cycling of fixtures even during a performance. The Slim version omits VertiSpot™, reducing both weight and footprint.

The T32 Cyc™ and T32 Cyc™ Slim have four separately controllable zones for increased variations and effects. T-Series colour consistency is assured with a virtually controlled CCT range of 2.700K to 8.000K, calibrated whites, DataSwatch™ onboard colour library and tungsten emulation.

Both versions contain a suite of fan level controls that guarantee stealth-like performance in the most demanding noise-sensitive environments.

**Now is the time to modernise your cyclorama lighting and give it the attention it deserves!**

***Are your productions being spoilt by poor cyclorama lighting? Are they not bright enough? Don't reach high enough? Are they poor-performing adaptations of other luminaires? It's time to change your cyclorama lighting from an eyesore into an eye stunner!***

Designed in collaboration with the world's leading lighting designers, Opera Houses and Theatres, the T32 Cyc™ and T32 Cyc™ Slim feature all the performance, tools, subtlety, and control to make your designs more exciting and visually stimulating than ever before.

Attaining greater reach, smoother coverage and visual impact than ever before from LED luminaires of this type, the low-laying, easily inter-connectable fixtures contain powerful RGBBAL multi-chip LEDs to generate not only high light levels but also faithfully reproduce those full-spectrum colours and tints favoured by designers across the world.

The industry-leading Opti-6™ 6:1 height-to-distance ratio optical design, with a classic asymmetric beam, provides greater, smoother reach and coverage, even from close proximity to the cyclorama, leaving more stage space for performer.

The T32 Cyc™ contains a revolutionary feature making it different to the Slim model. From either the top or base of the cyclorama our unique, patented motorised VertiSpot™ feature provides vertical crossover point control, giving superior blending and vertical output variance.

Pre-use movement of a fixture can be distracting. The MAPS™ (Patented) Motionless Absolute Positioning System within the T32 Cyc™ provides stationary reset without such motion, as sensors calculate the absolute positions. This allows discreet resetting and power cycling of fixtures during a performance.

The T32 Cyc™ Slim version removes VertiSPOT™ and MAPS™, producing a saving in terms of weight and footprint.

Both versions of the T32 have four separately controllable zones for increased variations and effects. These motorised tools allow split-second changes between scenes, giving designers far more scope than time-consuming, conventional, manually adjusted fixtures.

T-Series colour consistency is assured, with a virtually controlled CCT range of 2.700K to 8.000K. Factory-calibrated whites via the RCC™ Robe Colour Calibration system allow quick, direct call-up of whites at any colour temperature from 2.700K to 8.000K.

Our DataSwatch™ onboard colour library provides rapid pre-programmed colour selection, with tungsten emulation giving seamless integration with traditional lighting rigs. Colours are perfectly rendered, with exceptional ratings of CR:96 and TLCI:97. RGB or CMY colour mixing, with individual emitter control for advanced users, offers faster programming.

Vital for theatrical performance, our benchmark L3™ Low Light Linearity dimming software generates imperceptible fades to black for the most demanding practitioners.

Packed with innovation, the T32 Cyc™ and T32 Cyc™ Slim contain a suite of fan-level controls that guarantees stealth-like performance in the most demanding noise sensitive environments. AirLOC™ (Less Optical Cleaning) technology keeps the optical elements in pristine condition for far longer, and the Cpulse™ flicker-free management system caters to the most advanced camera systems, letting broadcast users use this fixture with confidence.

Now is the time to modernise your cyclorama lighting and give it the attention it deserves!

***TT32 Cyc™ - The art of cyclorama lighting***

## Source

- Light source type: 16x 40W MSL™ RGBBAL LED multichips
- LED life expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours
- CRI: 96, TLCI: 97, TM-30-18 Rf: 92, TM-30-18 Rg: 99

## Optical System

- Robe's proprietary optical design
- Field angle: Asymmetrical field angle 85° x 45°
- Opti-6™ - A 6:1 height-to-distance ratio asymmetrical optical system, producing a flat uniform field coverage even within close proximity to the cyclorama
- Highly efficient component optics
- Fixture total lumen output:
  17.565 lm (integrating sphere)
  14.052 lm (goniophotometer)
- RLCT™ Innovative lens coating technology (Patent pending)

## Dynamic Effects and Features

- Colour mixing: CMY/RGB or RGBAL
- 4 individually controllable LED zones
- Variable CCT: 2.700K - 8.000K
- Tungsten lamp effect: 750W, 1.000W, 1.200W, 2.000W, 2.500W lamp emulation for whites from 2.700K to 4.200K (red shift and thermal delay)
- DataSwatch™ filters: pre-programmed 237 colours and tones including most used whites 2.700K, 3.200K, 4.200K, 5.600K and 8.000K
- Pre-programmed zone effects with colour, dimming and strobe chases, waves and pulses at variable speed and direction
- Pre-programmed random strobe & pulse effects
- Electronic strobe effect with variable speed up to 20 Hz
- High resolution electronic dimming: 0 - 100%
- 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
- MAPS™ - Motionless absolute positioning system for internal movement affecting beam distribution (Patented)
- 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.
- VertiSpot™ for T32 Cyc™ - Unique, motorised vertical crossover point control for superior blending and vertical output variance (Patented)

## Control and Programming

- Setting & Addressing: 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 88 steps), built-in analyser for easy fault finding
- Protocols: USITT DMX-512, RDM, Art-Net, 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: 2
- Control channels:
  T32 Cyc™: 38, 42
  T32 Cyc™ Slim: 31, 35
- RGBW / CMY: 8 or 16 bit
- Dimmer: 8 or 16 bit (internal 18 bit)

## Thermal Specification

- Maximum ambient temperature: 40 °C (104 °F)
- Maximum surface temperature: 70 °C (158 °F)
- Minimum operating temperature: -5 °C (23 °F)
- Total heat dissipation: max. 1.890 BTU/h (calculated)

## Electrical Specification and Connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: 740 W at 230 V / 50 Hz
- Power connector in/out: Neutrik powerCON TRUE1 in/out
- DMX and RDM data in/out: Locking 5-pin XLR
- Ethernet port in/out: RJ45 for Embedded Epass™ switch 10/100 Mbps
- Embedded Ethernet switch 10/100 Mbps

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical Specification

T32 Cyc™

- Height: 244 mm (9.5")
- Width: 1.019 mm (40.1")
- Depth: 336 mm (13.2")
- Weight: 34.5 kg (76.0 lbs)

T32 Cyc™ Slim
- Height: 244 mm (9.5")
- Width: 1.019 mm (40.1")
- Depth: 267 mm (10.5")
- Weight: 22.5 kg (49.6 lbs)

- Ingress protection rating: IP20

## Rigging

- Mounting points: 2 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks
- Universal operating position
- Safety cable attachment point

## Included Items

- User Manual
- Power cord including powerCON TRUE1 In connector
- Omega Adaptor T CL - 2pcs: 10980184

## Optional Accessories

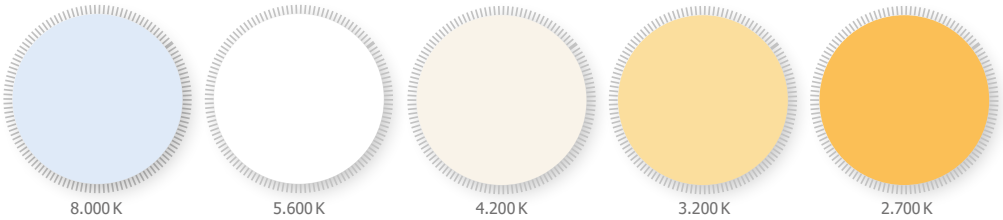
- Safety wire 36 kg: 99011963
- Omega Clamps CL-regular 2 pcs: 10980033
- Doughty Trigger Clamp: 17030386
- Daisy Chain powerCON TRUE1 In/Out, EU, 2m, Indoor: 13052439
- Daisy Chain powerCON TRUE1 In/Out, US, 2m, Indoor: 13052440
- Daisy Chain powerCON TRUE1 In/Out, EU, 5m, Indoor: 13052444
- Single Top Loader Case for T32 CYC™: 10120359-01
- Dual Top Loader Case for T32 CYC™: 10120348-01
- Single Top Loader Case for T32 CYC™ Slim: 10120349-01
- Dual Top Loader Case for T32 CYC™ Slim: 10120350-01

## Legal

- T32 Cyc™ is a Trademark of Robe lighting s. r. o.
- T32 Cyc™ and T32 Cyc™ Slim are patented by Robe lighting s. r. o. and protected by one or more pending or issued patents

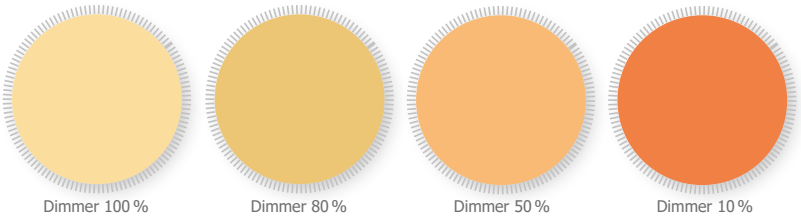
## True White Colours

T-Series colour consistency and seamless integration are assured with a virtually controlled CCT range of 2.700K to 8.000K, calibrated whites, DataSwatch™ onboard colour library and tungsten emulation. Colours are perfectly rendered with exceptional ratings of CR:96 and TLCI:97. RGB or CMY colour mixing control offers faster programming




## Tungsten effect

The Halogen lamp mode provides emulation of 750W, 1.000W, 1.200W, 2.000W and 2.500W tungsten lamps. The dimmer channel initiates halogen lamp-like behaviour (red effect and thermal delay) for each lamp type during dimming.




## Lens Coating Technology

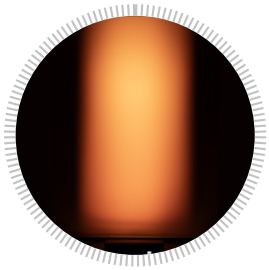
RLCT™ Innovative lens coating technology protects soft plastic lenses against „surface scattering“ even when scrubbed repeatedly. Anti-static properties prolong the time period before the lenses will collect dust and create white maps on the lens surface. The new coating brings countless benefits including; longer intervals between cleaning, bright and clear lenses, no scratches or marks, and higher ight output (Patent pending).

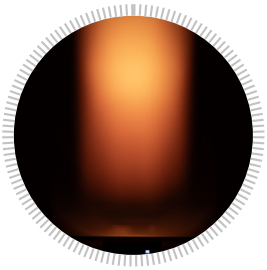
## Proprietary Optical System

Robe Opti-6™ 6:1 height-to-distance ratio asymmetrical optical system producing a flat, uniform field coverage even within close proximity to the cyclorama.

## VertiSpot™

Unique, motorised vertical crossover point control for T32 Cyc™ superior blending and vertical output variance (Patented)





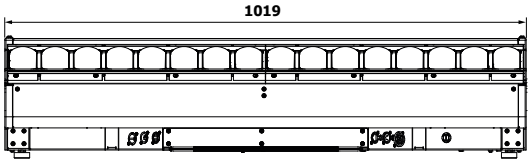
## LED Colours

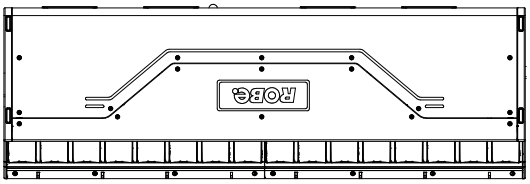
Powerful RGBBAL LEDs give high output for full pastel to saturated tones, with exceptional colour rendition CRI: 96 TLCI: 97.

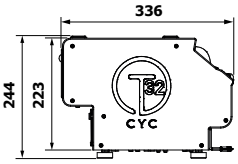
## Zone Control

4 individually controlled LED zones give opportunity for extra creativity and effects.

T32 CYC™






T32

CYC™

Slim