

# Tetra1™

TETRA1 is a linear bar built on the highly successful Spiider and Tarrantula technology. Despite its shorter length, TETRA1 maintains the same features, quality and pixel spacing as TETRA2.

**Light source**

9x 40W RGBW LED multichips

**Light output**

4.225 lm

**Zoom range**

4° - 45°

**Effects**1x MCFE™ Multi-coloured Flower Effects,  
Seamless Curtain of Light, Fast Paced  
Sweeping

Generating an ultra-tight 4° beam from each of the 9 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 compact, 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 one exclusive Robe patented MCFE™ - Multi-Coloured Flower Effect, the pixel-driven TETRA1 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.

# Technical Specification

## Source

- Light source type: 9x 40W RGBW LED multichips
- LED life expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours
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## Optical system

- Robe's proprietary optical design
- Zoom range: 4°- 45°
- High efficient component optics
- Fixture total lumen output: 4.225 lm
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## 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
- 1x MCFE™ - Multi-Coloured Flower Effects - creating spectacular multicolour beam effects in the air rotating in both directions at variable speed (patent pending)
- Motorized zoom
- 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
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## 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: 25, 45, 59, 68, 72, 81
- RGBW / CMY: 8 or 16 bit
- Zoom: 8 or 16 bit
- Dimmer: 8 or 16 bit (internal 18 bit)
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## **Movement**

- Tilt movement: 205°
- 16 bit movement resolution
- Controllable speed of Pan/Tilt movement
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## **Thermal specification**

- Maximum ambient temperature: 40°C (104°F)
- Maximum surface temperature: 70°C (158°F)
- Minimum operating temperature: -5°C (23°F)
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## **Electrical specification and connections**

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: 400 W at 230 V / 50 Hz
- Power in/out connector: 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
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## **Mechanical specification**

- Height: 279 mm (10.98") - head in vertical position
- Width: 508 mm (20")
- Depth: 192 mm (7.56") - head in horizontal position
- Weight: 11.3 kg (24.9 lbs)
- Ingress protection rating: IP20
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## 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
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## Included items

- User Manual
- Variable Omega Adaptor: 99016241-02
- Power cord including powerCON TRUE1 In connector
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## Optional accessories

- Diffusion filter: 2° 10980592
- Clear lens cover: 10980605
- Safety wire 36 kg: 99011963
- 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: 10120261
- Six Pack Top Loader Case: 10120263
- Dual Foam Shell: 20020372
- Omega Adaptor CL-variable 2pcs in box: 10980550
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## Legal

- Tetra1™ is a Trademark of Robe lighting s. r. o.
- Tetra1™ is patented by Robe lighting s. r. o. and protected by one or more pending or issued patents
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