

# iTetra2™

Once again, proving that our spider family are not afraid of the rain, the iTETRA2™ is totally happy to splash around!

**Light source**

18x 40W RGBW LED multichips

**Light output**

10.500 lm

**Zoom range**

4° - 45°

**Effects**

2x MCFE™ - Multi-Coloured Flower Effects - creating spectacular multicolour beam effects in the air rotating in both directions at variable speed (patented), pixel control, virtual colour wheel, tungsten lamp effect



The spectacular iTETRA2™ linear bar has joined the Robe iSERIES! The IP65-rated iTETRA2™ retains all the qualities and features of its highly successful indoor brother, adding Robe's groundbreaking, self-managing, low-maintenance ingress protection technology, allowing outdoor use of this classic fixture by removing the threat of rain, dust, humidity, smoke or haze damage, even in the harshest conditions.

With identical DMX map, features and performance to TETRA2™, the outdoor iTETRA2™ can be used without having to learn a new fixture! The ingenious ingress protection system is specifically designed to allow standard maintenance and preparation procedures without any additional tools, so maintenance work can be conducted on-site.

The onboard patented RAINS™ (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control. The active monitoring system automatically removes any moisture

detected within the fixture, providing constant monitoring to ensure peak performance.

Outdoor fixtures need to operate in extreme cold. iTETRA2™ contains an innovative POLAR+™ technology, a special standby mode with low power consumption, in which the fixture's sensors and communications channels remain active. When activated,

POLAR+™ automatically maintains an internal temperature level, giving instant operability down to minus 50 degrees centigrade!

iTETRA™ runs an ingenious Self Pressure Test to check internal pressure. This self-test, taking less than 3 minutes, provides an error message if gaskets or covers were not replaced correctly or locking screws tightened, ensuring maximum protection. Their lightweight aluminium alloy structure, provide a dust-free environment for the optics. This eliminates the need for frequent cleaning, routine maintenance, and UV damage to plastic parts.

By including NFC (Near-Field Communication) technology, you can access setup, diagnostic and performance features, even without power, directly from your mobile device using the Robe Com app.

With the identical ultra-tight 4° beam from each of the 18 pixels of the original indoor TETRA2™, the iTETRA2™ produces 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 iTETRA2™ to be placed end to end on stage or truss, maintaining equal spacing between pixels. With the addition of two exclusive Robe patented MCFE™ – Multi-Coloured Flower Effects, the pixel-driven iTETRA2™ sets itself apart from others by projecting charismatic in-air animations.

Their 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. With 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.

Removing the need for distracting pre-use tilt calibration movement, our patented MAPS™ (Motionless Absolute Positioning System) allows the fixture to fully calibrate while remaining static - very useful when located within confined spaces.

An embedded Ethernet switch and a 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. Our REAP™ (Robe Ethernet Access Portal) allows access to fixture information and diagnostics over Ethernet Networks. Perfect for installations requiring remote centralised monitoring of fixture performance.

# Technical Specification

## Source

- Light source type: 18x 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
- Zoom range: 4°- 45°
- Highly efficient component optics
- Fixture total lumen output:
  - 10.500 lm (integrating sphere)
  - 8.439 lm (goniophotometer)
- RLCT™ Innovative lens coating technology (Patent pending)

## 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
- POLAR+™ for power saving and instant operation in extremely cold weather conditions

## 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
- Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity
- RAINS™ (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system to automatically remove any moisture detected within the fixture and provides constant monitoring to ensure peak performance
- 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 Tilt movement
- MAPS™ - Motionless absolute positioning system for Tilt (Patented)

## Thermal specification

- Maximum ambient temperature: 50°C (122°F)
- Maximum surface temperature: 70°C (158°F)
- Minimum operating temperature: -50°C (-58°F)
- Total heat dissipation: max. 2047 BTU/h (calculated)

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: 600 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: IP65 RJ45 for Embedded Epass™ switch 10/100 Mbps

## Mechanical specification

- Height: 310 mm (12.2") - head in vertical position
- Width: 1010 mm (39.76")
- Depth: 173 mm (6.81") - head in vertical position
- Weight: 29.3 kg (64.67 lbs)
- Ingress protection rating: IP65

## 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
- Variable Omega Adaptor 2 pcs: 99016241-02
- Power cord including powerCON TRUE1 In connector:
  - US:13052277-01
  - EU:13052276-01

## Optional accessories

- 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: 10120311
- Dual Top Loader Case: 10120318
- Foam Shell: 20020466
- Omega Adaptor CL-variable 2pcs in box: 10980550

## Legal

- iTetra2™ is a Trademark of Robe lighting s. r. o.
- iTetra2™ is patented by Robe lighting s. r. o. and protected by one or more pending or issued patents