

# Tarrantula™

Building on the success of the LEDWash 1200 and Spider's advanced technology, the all new Tarrantula is the most powerful LED beam/wash/effects fixture on the market. 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.

**Light source**

1x 60W RGBW and 36x 40W RGBW LED multichips

**Light output**

25.200 lm, 80.200 lx @ 5m

**Zoom range**

4° - 50°

**Effects**

pixel control, MCFE™ - Multi-Coloured Flower Effects (patented), virtual colour wheel, tungsten lamp effect, preprogrammed pixel effects, optional beam shaper



Designed for concerts, car shows, sporting tournaments, indeed any event in a large venue, the Tarrantula is powered by 36x 40W and 1x 60W high powered emitters providing a stunning 25.200 lumen output. The versatile optical system offers an adjustable beam angle, from a tight 4° spot to a super-wide 50° wash, of the highest quality light. The LEDWash 800 inspired Beam Shaper accessory creates a traditional oval beam that can be indexed to precisely cover the desired stage or performance area. Central to the effects capabilities of this fixture is Robe patented MCFE™ - Multi-Coloured Flower Effects, adding yet another spectacular visual dimension. Driven by the 60W RGBW multichip, this creates the sharpest spikes of light, rotating in either direction with controlled speed. Fully saturated and intense colours as well as subtle pastel tones are created with velvety smooth transitions thanks to the integrated internal 18bit LED dimming system. Dynamic video effects are easily achieved by mapping individual pixels controlled by a DMX desk or media servers via sACN with internal HTP merging, DMX or by Kling-Net protocol.

# Technical Specification

## Source

- Light source type: 1x 60W RGBW and 36 x 40W RGBW LED multichips
- LED life expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours
- CRI: 76

## Optical system

- Robe's proprietary optical design
- High - efficiency zoom optical system, ratio 12,5:1
- Zoom range: 4° - 50°
- Fixture total lumen output:
  - 25.200 lm (integrating sphere)
  - 21.358 lm (goniophotometer)
- Illuminance: 80.200 lx @ 5 m
- RLCT™ Innovative lens coating technology

## 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 at whites: 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-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

## 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: 6
- Control channels: 28, 48, 146, 183, 159, 196
- Pan & Tilt resolution: 16 bit
- R,G,B,W colour mixing: 8 or 16 bit (internal 18 bit)
- Zoom: 8 bit
- Dimmer: 8 or 16 bit (internal 18 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 (Patented)
- Automatic Pan & Tilt position correction

## Thermal specification

- Maximum ambient temperature: 45°C (113°F)
- Maximum surface temperature: 75°C (167°F)
- Minimum operating temperature: -5°C (23°F)
- Total heat dissipation: max. 3412 BTU/h (calculated)

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: 1000 W
- Power in connector: Neutric powerCON TRUE1
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in/out: RJ45
- Embedded Ethernet switch 10/100 Mbps: 1x in / 1x out
- USB connector (series A)

## Approvals

- CE Compliant
- cETLus Compliant (pending)

## Mechanical specification

- Height: 587 mm (23.1")
- Width: 508 mm (20")
- Depth: 257 mm (10.1")
- Weight: 21.2 kg (46.7 lbs)
- Ingress protection rating: IP20

## Rigging

- Mounting positions: Horizontally or vertically
- Universal operating position
- Mounting points: 2 pairs of ¼-turn locking points
- 2x Omega adaptors with ¼-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°: 10980417
- Clear lens cover: 10980608
- Beam shaper kit: 10980430
- EggCrate: 10980431
- Doughty Trigger Clamp: 17030386
- Safety wire 36 kg: 99011963
- Single Top Loader Case: 10120234 - 01 (w/o Beam shaper)
- Dual Top Loader Case: 10120235 - 01 (w/o Beam shaper)
- Foam Shell: 20020319

## Legal

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