



Tarrantula™

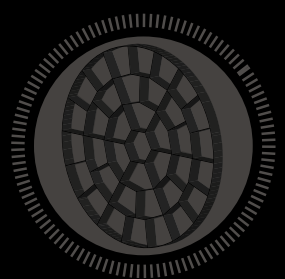
**RGBW
COLOUR
MIXING**

**LIGHT OUTPUT
20.150 lm
80.200 lx @ 5M**

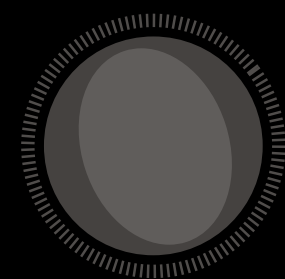
**ZOOM
4°–50°**

Accessories

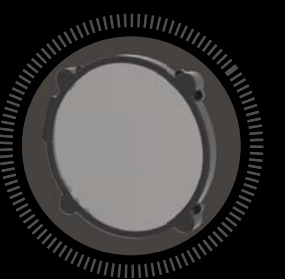
Optional Eggcrate



Optional Diffusor 2°



Beam shaper kit



Packaging

Cardboard



Exterior dimensions

590 x 390 x 640 mm
(23.2" x 15.4" x 25.2")

Single Top Loader Case
Tarrantula™



590 x 390 x 640 mm
(23.2" x 15.4" x 25.2")

Dual Top Loader Case
Tarrantula™



620 x 600 x 720 mm
(24.4" x 23.6" x 28.4")



www.robe.cz



Head office: ROBE lighting s. r. o. | Hážovice 2090 | 756 61 Rožnov pod Radhoštěm | Czech Republic
Factory: ROBE lighting s. r. o. | Palackého 416 | 757 01 Valašské Meziříčí | Czech Republic
Tel.: +420 571 751 500 | Fax: +420 571 751 515 | E-mail: robe@robe.cz

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Tarrantula™



Tarrantula™

**ULTRABRIGHT
LED
WASHBEAM**

**INNOVATIVE
FLOWER
EFFECT**

**INDIVIDUAL
PIXEL
CONTROL**



Tarrantula™ Technical Specification

Tarrantula™ Product diagrams

Building on the success of the LEDWash 1200 and Spider's advanced technology, Robe is excited to announce the release of their most powerful LED beam/wash/effects fixture yet. We call it the Tarrantula.

Designed for concerts, car shows, sporting tournaments, indeed any event in a large venue, the Tarrantula is powered by 36x 30W and 1x 60W high powered emitters providing a stunning 20,000 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 the exclusive Robe "Flower Effect" 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.

Source

- Light source type: 1x 60W RGBW and 3x 30W RGBW LED multichips
- LED life expectancy: min. 50,000 hours
- Typical lumen maintenance: 70% @ 20,000 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: 20,150 lm
- Light output: 80,200 lx @ 5 m

Dynamic Effects

- 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: 2,700K and 3,200K (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
- Innovative Flower Effect: rotating in both directions at variable speed (Patent pending)
- Strobe effect: variable speed (max. 20 flashes per second)
- Pre-programmed random strobe & pulse effects
- High resolution electronic dimming: 0-100%

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

Mechanical Specification

- Wireless CRMX™ technology from Lumen Radio (on request)
- DMX Protocol modes: 6
- Control channels: 27, 47, 145, 182, 158, 195
- 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)

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

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

Included Items

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

Accessories

- Diffusion filter: 2°
- Beam shaper kit
- EggCrate
- Doughty Trigger Clamp
- Safety wire 35 kg
- Single Top Loader Case
- Dual Top Loader Case
- Foam Shell

Electrical Specification and Connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: 1,000 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: 1 x in / 1 x out

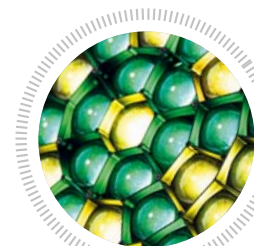
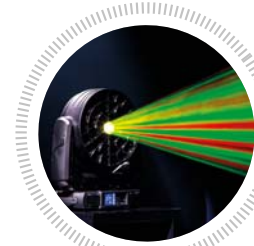
Approvals

- CE Compliant
- cETLus Compliant (pending)



Innovative Flower Effect

The new innovative Flower Effect creates sharp multicoloured spikes of light, rotating in both directions at variable speed, adding new visual effect to the show! (Patent pending)



Proprietary Optical System

Robe RnD have designed a new very efficient 12:1 zoom optical system with a range from 4° to 50°, resulting in light output of over 20,150 lumens and intensity of 80,200 lux @5m. (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

In the Halogen lamp mode predefined for White Halogen 2,700K and 3,200K, the Dimmer channel initiates halogen lamp-like behaviour (red effect and thermal delay) during dimming.



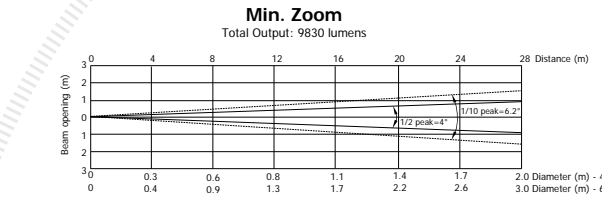
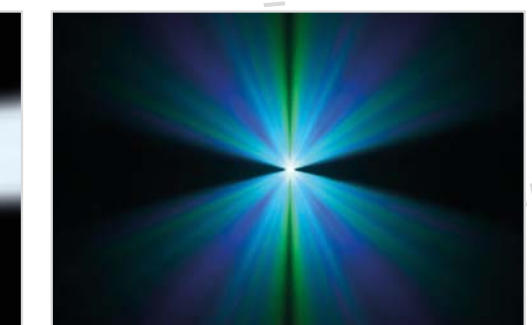
Max. Zoom



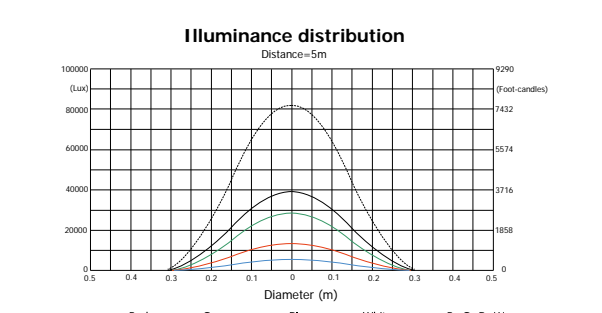
Min. Zoom



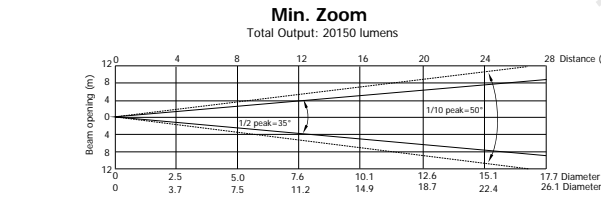
Flower Effect



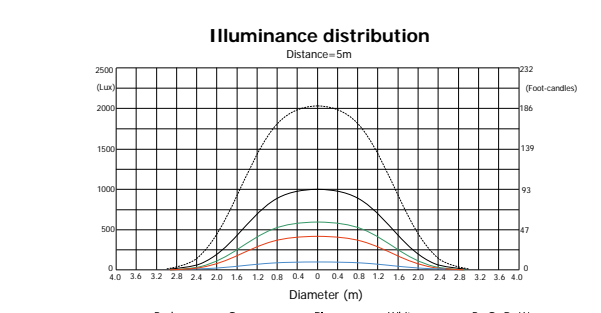
Distance (m)	4	5	8	12	16	20	24	28
Red	2880/144	1200/120	320/160	220/110	130/65	80/40	50/25	30/15
Green	2880/144	1200/120	320/160	220/110	130/65	80/40	50/25	30/15
Blue	2880/144	1200/120	320/160	220/110	130/65	80/40	50/25	30/15
White	2880/144	1200/120	320/160	220/110	130/65	80/40	50/25	30/15
R+G+B+W	11520/576	4800/240	1280/640	880/440	520/260	320/160	200/100	120/60



Illuminance distribution Distance=5m



Distance (m)	4	5	8	12	16	20	24	28
Red	2880/144	1200/120	320/160	220/110	130/65	80/40	50/25	30/15
Green	2880/144	1200/120	320/160	220/110	130/65	80/40	50/25	30/15
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R+G+B+W	11520/576	4800/240	1280/640	880/440	520/260	320/160	200/100	120/60



Illuminance distribution Distance=5m

