iSpiider®

ROBE®

iSpiider®


IP65
INGRESS
PROTECTION
SUPER-BRIGHT
LED
WASHBEAM
INNOVATIVE
FLOWER
EFFECT
LIGHT OUTPUT
10.500lm
49.000lx @ 5M
INDIVIDUAL
PIXEL
CONTROL
ZOOM
4° – 50°
NFC
iSpiider
ROBE
ROBE

Unlike other spiders, our new IP65 rated iSpiider®, with its highly advanced protective design, is perfectly happy to play in the rain!

Ideally suited for festivals, concerts and outdoor events, or any scenario needing to deal with inclement or unpredictable weather, the iSpiider® is a bright, high-performance rated WashBeam luminaire, retaining all the favourite features of its phenomenally successful indoor relative, the Spiider®.

Designed, developed, and manufactured, to be sealed against water and particle ingress, thereby strictly adhering to their IP65 rating, you can be confident of both its protection and performance. Their aluminium housing gives a dust-free environment for the optics, eliminating the need for frequent cleaning and routine maintenance. By including NFC (Near-Field Communication) technology, you can access setup, diagnostic and performance features, even when the fixture is not powered, directly from your mobile device using the Robe Com app. iSpiider® uses the same 18 × 40-Watt, and 1 × 60-Watt LED source as the original, with the identical 12.5:1 zoom optical system, giving the same, tight 4° Beam to wide 50° Wash.

The unique Robe patented MCFE™ - Multi-Coloured Flower Effect, driven by the center 60W RGBW LED multichip, produces sharp, multicoloured spikes of light, rotating in both directions at variable speed, adding visual impact to any show. All control protocols are present, with dynamic video effects achieved by mapping individual pixels, controlled by DMX control desks, media servers via sACN with internal HTP merging, or Kling-Net. Designed to be used indoors or out, we make fixture swap with the original Spiider® easy, as the DMX control channels, operating speeds, and feature set of both luminaires are identical.

iSeries - Robe reliability in all weathers.

Source

- Light source type: 1 × 60W RGBW and 18 × 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: 13.100 lm (integrating sphere)
  10.500 lm (goniophotometer)
- Illuminance: 49.000 lx @ 5 m
- Innovative lens coating technology (Patent pending)

Dynamic Effects and Features

- Colour mixing mode RGBW or CMY
- Individual control of each RGBW pixel
- White light: Variable CCT 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 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)
- 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

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, Art-Net, MA Net, MA Net2, sACN, Kling-Net
- 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
- REAP™ - Robe Ethernet Access Portal
- 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: 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: -10°C (14°F)
- Total heat dissipation: max. 1614 BTU/h (calculated)

Electrical Specification and Connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: max. 600W
- Power connector in: IP65 Neutrik powerCON TRUE1
- DMX and RDM data in/out: IP65 Locking 5-pin XLR connectors
- Embedded Ethernet switch 10/100 Mbps: 1 × in / 1 × out
- Ethernet port in: 2 × IP65 RJ45 connector

Approvals

- CE Compliant
- cETLus Compliant (pending)

Mechanical Specification

- Height: 534 mm (21.0") – head in vertical position
- 595 mm (23.4") – head in horizontal position
- Width: 450 mm (17.7")
- Depth: 277 mm (10.9")
- Weight: 24.9 kg (54.9 lbs)
- Ingress protection rating: IP65

Rigging

- Mounting positions: Horizontally or vertically
- Universal operating position
- Mounting points: 2 pairs of 1/4-turn locking points
- 2× 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

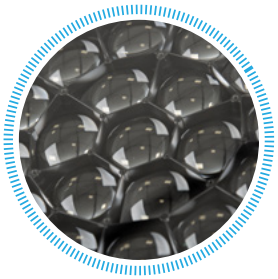
Optional Accessories

- Doughty Trigger Clamp: 17030386
- Safety wire 35 kg: 99011963
- Single Top Loader Case: 10120277
- Dual Top Loader Case: 10120278
- Foam Shell: 20020416

Legal

Optical System

Robe R&D has designed a new very efficient 12.5:1 zoom optical system with a range from 4°–50°, resulting in light output of 10.500 lumens and intensity of 49.000 lux @ 5m (Patented).

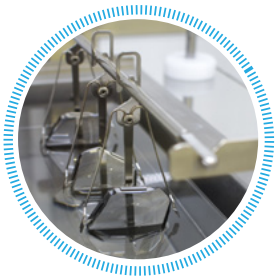


Innovative Flower Effect

The new innovative Multi-Coloured Flower Effect creates sharp, colourful spikes of light, rotating in both directions at variable speed, adding a new, spectacular 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 before the lenses collect dust and create white maps on the 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 turn the fixture either into the low res screen or allows the creation of stunning in-air beam effects.

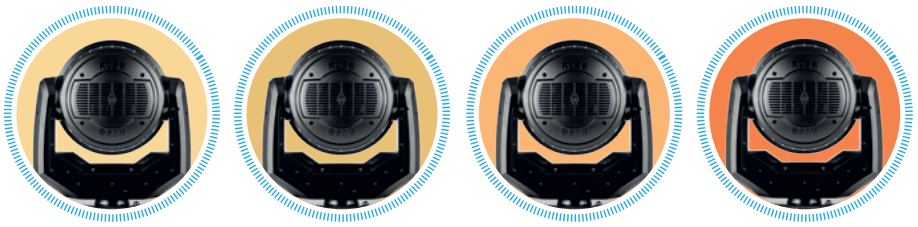
True White Colours

Precise colour-mixing 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

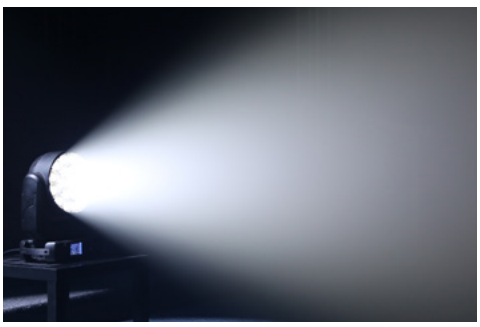
Tungsten Effect

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

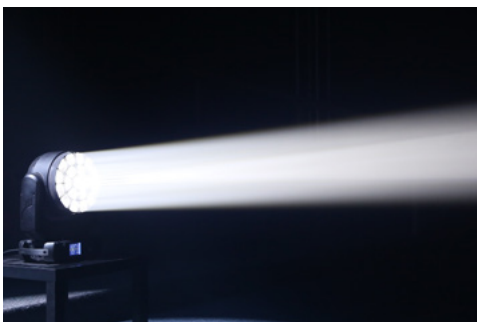


Dimmer 100% | Dimmer 80% | Dimmer 50% | Dimmer 20%

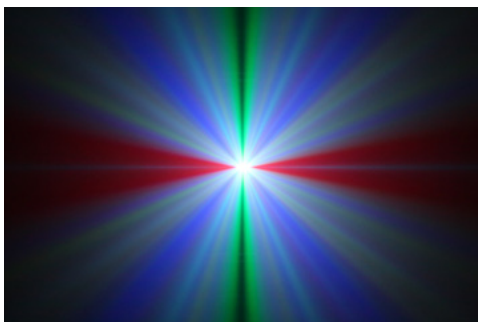
Max. Zoom



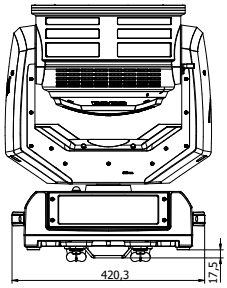
Min. Zoom

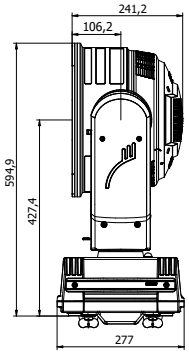


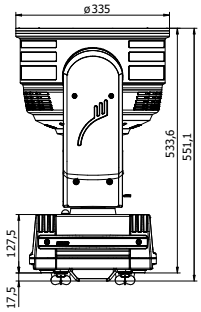
Flower Effect



iSpiider®





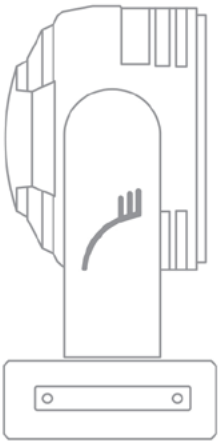


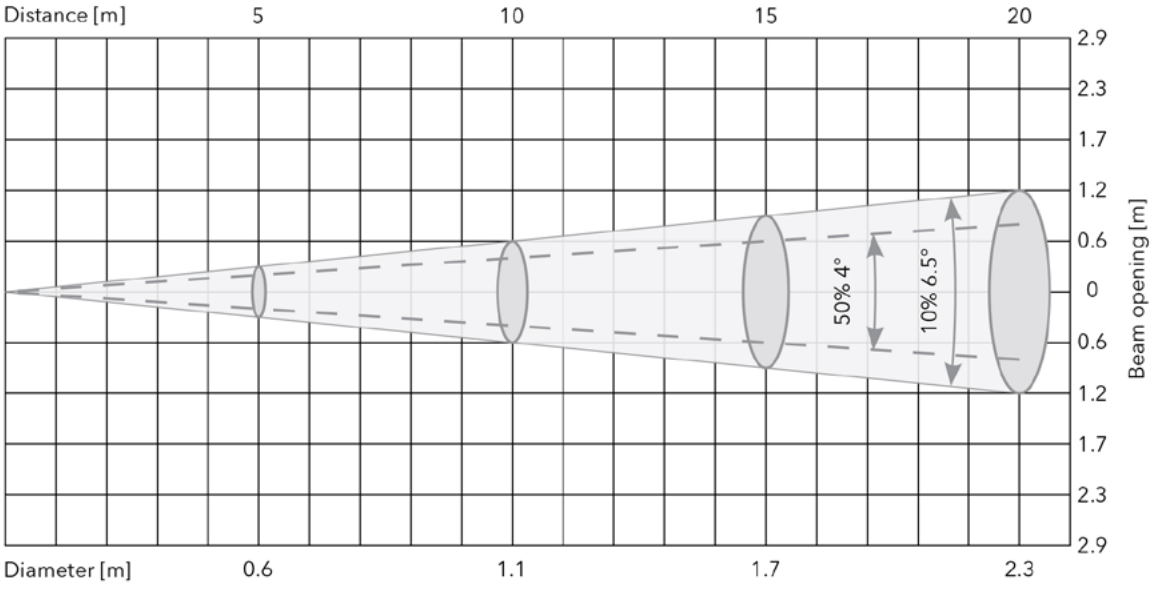
iSpiider

Photometric report

Beam angle 6.5° - Min. Zoom

Beam angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
6.5°	5627 lm	5115 lm	1214750 cd	660 W

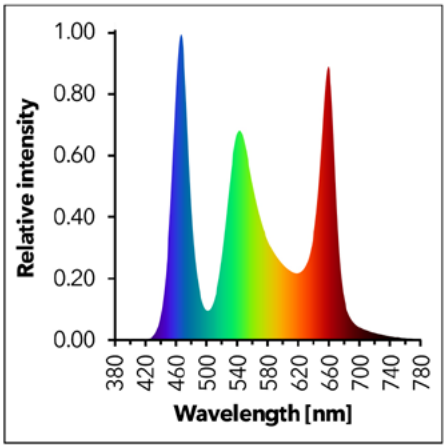




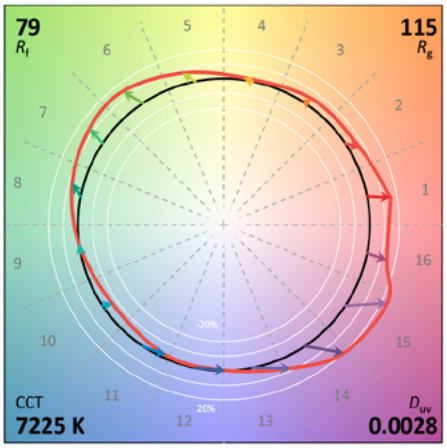
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	25 m	30 m	35 m	Total lumens
R+G+B+W	48590/4514	12148/1129	5399/502	3037/282	1944/181	1350/125	992/92	5115
Red	9040/840	2260/210	1004/93	565/52	362/34	251/23	184/17	952
Green	15830/1471	3958/368	1759/163	989/92	633/59	440/41	323/30	1666
Blue	3050/283	763/71	339/31	191/18	122/11	85/8	62/6	321
White	21740/2020	5435/505	2416/224	1359/126	870/81	604/56	444/41	2289

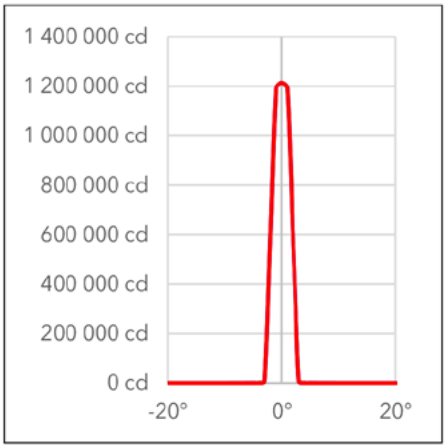
Spectrum



TM-30



Light distribution



Color temperature	CCT	7225
Color Deviation from Black	Duv	0.0028
Color Coordinate CIE 1931	x	0.3025
	y	0.3179
Color Coordinate	u	0.1949
	v	0.3072

Color rendering index	CRI	73
Red component	CRI R9	-22
Color fidelity	TM30 Rf	79
Color gamut	TM30 Rg	115
Television consistency Index	TLCI	63

Fixture settings: DMX mode: 1; Flower effect Off; White Point 8000K On; All pixels On

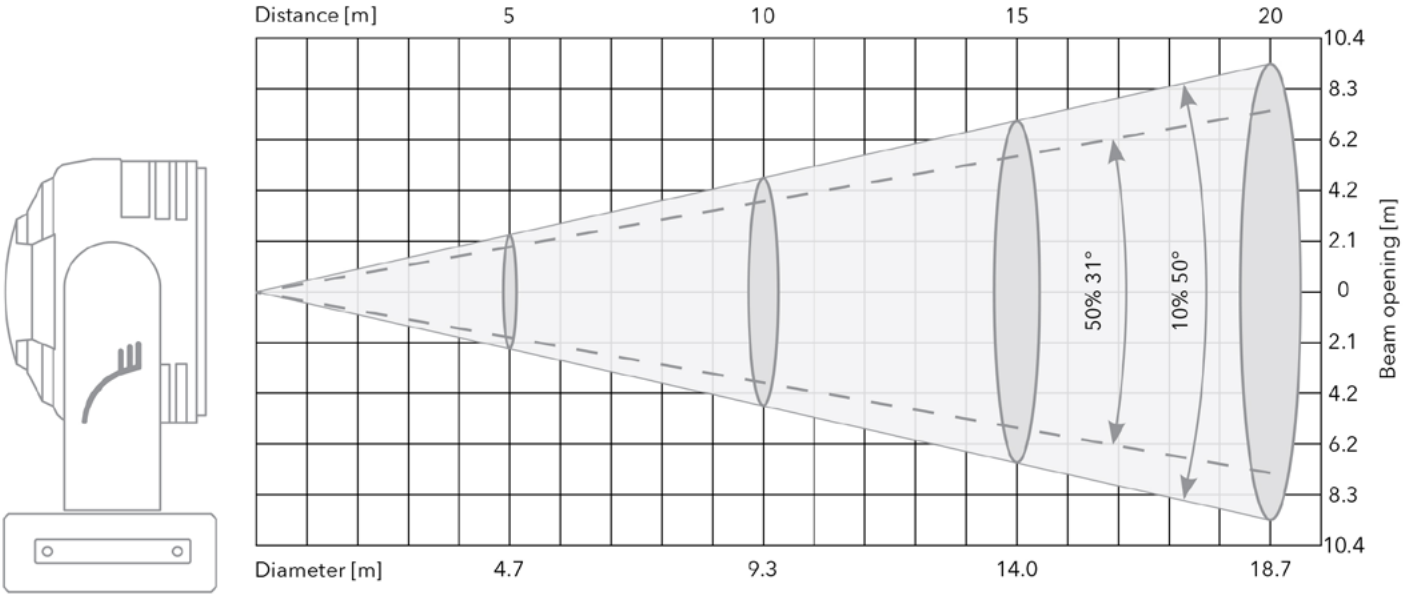
Measurement date: 05.03.2021

iSpiider

Photometric report

Beam angle 50° - Max. Zoom

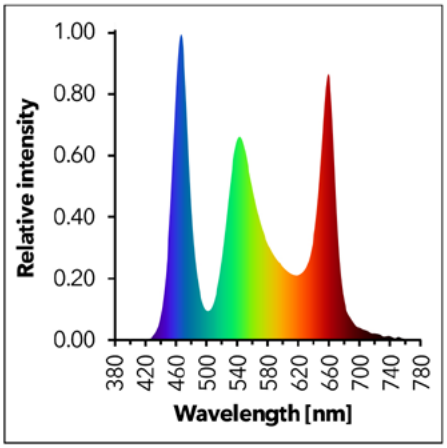
Beam angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
50°	12788 lm	10230 lm	30250 cd	660 W



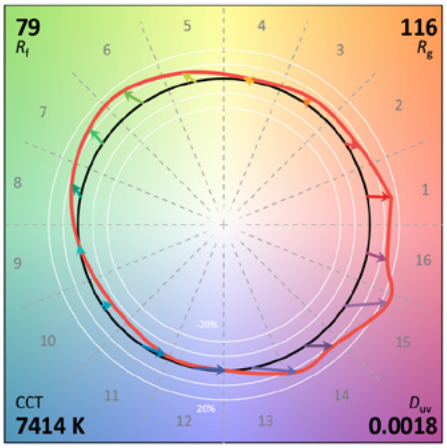
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	25 m	30 m	35 m	Total lumens
R+G+B+W	1210/112	303/28	134/12	76/7	48/4.5	34/3.1	25/2.3	10230
Red	210/20	53/4.9	23/2.2	13/1.2	8/0.8	6/0.5	4.3/0.4	1775
Green	407/38	102/9	45/4.2	25/2.4	16/1.5	11/1.1	8/0.8	3441
Blue	82/8	21/1.9	9/0.8	5/0.5	3.3/0.3	2.3/0.2	1.7/0.2	693
White	550/51	138/13	61/6	34/3.2	22/2	15/1.4	11/1	4650

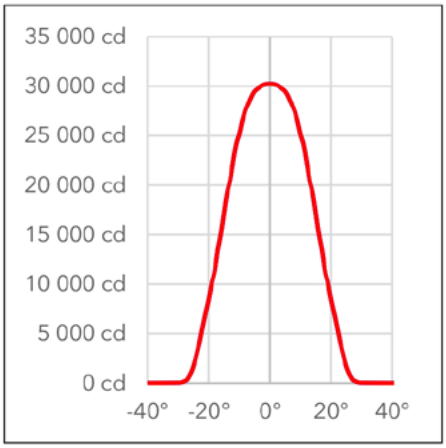
Spectrum



TM-30



Light distribution



Color temperature	CCT	7414
Color Deviation from Black	Duv	0.0017
Color Coordinate CIE 1931	x	0.3006
	y	0.3139
Color Coordinate	u	0.1950
	v	0.3055

Color rendering index	CRI	73
Red component	CRI R9	-25
Color fidelity	TM30 Rf	79
Color gamut	TM30 Rg	116
Television consistency Index	TLCI	62

Fixture settings: DMX mode: 1; Flower effect Off; White Point 8000K On; All pixels On

Measurement date: 05.03.2021

iSpiider®

ROBIN®
Innovative Technology

www.robe.cz

ROBE®

Head office: ROBE lighting s. r. o. | Házovice 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 | E-mail: robe@robe.cz