OZ - 1169

COMPACT - LED 600 W

- **Type:** Followspot
- **Source:** LED 600 W
- **Optics:** 7° to 14.5° zoom
- **Colour temperature:** Cool White

Too bright to ignore !

Oz is proof that Robert Juliat continues to lead the way in followspot design ! The new dynamic long-throw model features an exclusive 600W cool white LED source and is the first professional LED followspot able to deliver a high output comparable with that of 1200W discharge followspots. With its compact dimension, silent operation, smooth electronic dimming and the benefits of no lamp change and powerful output, Oz is the perfect front of house spot for larger venues and full size theatres.

Features

- **Fully closing iris cassette:** removable for fast, easy replacement; protective backplate for extended lifespan
- **Universal adjustable gobo holder:** "A" size glass and metal gobos
- **Ergonomic dimmer control:** one-handed dim, pan and tilt
- **Local control:** light intensity adjustment through built-in potentiometer
- **Frost filter:** on flip lever for quick soft-edge beam effect
- **Horizontal chopper (optional):** for masking control in TV studios and wide stages
- **Internal glass filter holder:** long term use of durable coloured, dichroic or textured glass
- **Individually removable colour frame:** gels replaced easily while colour cassette remains in place
- **Colour changer:** 6-way, self-cancelling boomerang colour-changer
- **USB connector:** for connection of additional accessories
- **Adjustable response time:** choice of fast or slow dimming for tungsten-like simulation - adjustment by DMX protocol
- **Universal data control:** compatible with DMX, RDM, Art-Net, sACN protocols
- **Remote setup:** all parameters can be adjusted by RDM protocol
- **Local setup:** DMX address and mode, dimming curve and response time through 4-button display with automatic light switch-off
- **Control:** local and DMX
- **Dimming parameters:** choice of square or linear dimming curves
- **DMX:** 8 or 16 bit dimming, response time and strobe function
- **Easy focus reference:** graduated scale on side of the unit; fast and easy refocusing
- **Adjustable yoke (optional):** for optimum overhead positioning
- **Fine balance:** precision positioning and smooth operation even with the smallest movements
- **Stand:** perfectly weighted for maximum stability with smooth rotation for optimum performance. Easy set up; triple safety system for extra security

Optical

- **Long life:** outstanding operational lifetime expectation, no need to replace lamps, low maintenance
- **High output:** comparable to 1200W discharge followspots
- **Gobo :** excellent gobo projection
- **Optical quality:** smooth flat beam, no hot spot
- **Variable zoom optics:** sharp focus at every beam angle. Independent control of image size and focus.
- **Electronic dimmer:** dimming without clipping or cut-out at low intensity levels; high quality smoothing
- **No colour shift:** colour temperature remains the same when dimming

Construction

- **Made in France :** fully manufactured in Robert Juliat premises retaining complete control over all aspects of quality
- **PSU:** built-in electronic flicker-free power supply for easy, plug-and-play installation
- **Power connectors:** compatible powerCON® TRUE1 IN and OUT connectors for daisy chaining
- **Silent-running cooling fans:** ideal for TV studios and opera houses
- **Electronic thermal management system:** ensures maximum performance of the system without any risk of overheating
- **Bodywork:** strong sheet metal construction for durability
- **Ergonomic wrap-around handle:** comfort, safety and practicality from all operating positions
- **Moving parts:** smooth at all times, even when hot
- **Captive knobs and handles:** additional security when working at height or in transit
- **Easy access to all parts:** easy cleaning and maintenance

Picture:

ROBERT JULIAT

- **Lamp type:** LED
- **Power:** 600 W

LED specifications	Power *	Lumen output*	Colour temperature*	Life*	CRI* (min)
LED 600W	600 W	32 500 lm	6000K	20 000 h	91

(*) manufacturer's data

Optics

Characteristics
- **Type:** Zoom
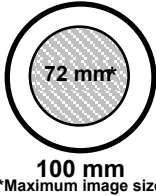- **Range:** 7° to 14.5° (Field angle)
- **Focal length:** 283 - 589 mm

Gel filter
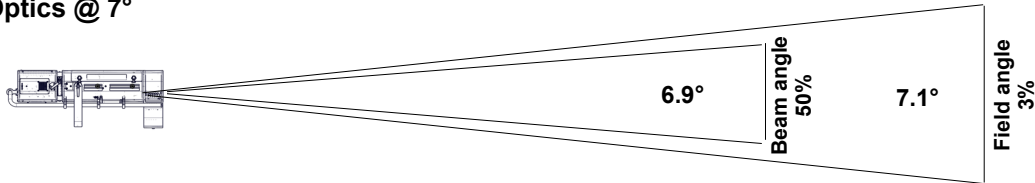- **Shape:** Circle
- **Standard size:** 210 mm (8.3 in)

Gobo
- **Size:** A
- **Material:** Metal
  Glass

72 mm*

100 mm
***Maximum image size**

Photometrics

optics: 7°-14,5° / Standard

• Optics @ 7°

	6.9°	Beam angle 50%	7.1°	Field angle 3%

Beam intensity
1 375 000 cd

Field lumens
12 850 lm

Efficacy
18 lm/W

Distance	15 m	20 m	25 m	30 m	35 m	40 m
Diameter	1.9 m	2.5 m	3.1 m	3.7 m	4.3 m	5 m
Illumination	6 200 lux	3 450 lux	2 250 lux	1 550 lux	1 150 lux	860 lux
Distance	50 ft	65 ft	80 ft	100 ft	115 ft	130 ft
Diameter	6.2 ft	8.1 ft	9.9 ft	12.4 ft	14.3 ft	16.1 ft
Illumination	560 fc	330 fc	220 fc	140 fc	110 fc	85 fc

• Optics @ 14.5°

	13.4°	Beam angle 50%	13.8°	Field angle 3%
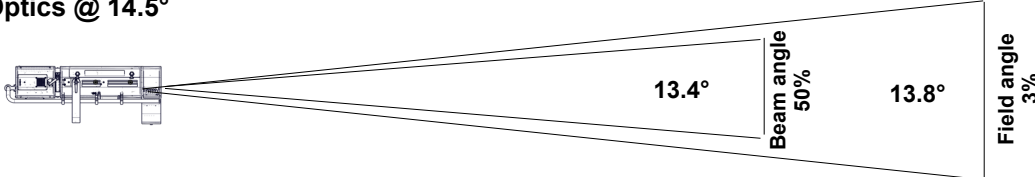
Beam intensity
426 500 cd

Field lumens
15 400 lm

Efficacy
22 lm/W

Distance	15 m	20 m	25 m	30 m	35 m	40 m
Diameter	3.6 m	4.8 m	6.1 m	7.3 m	8.5 m	9.7 m
Illumination	1 900 lux	1 100 lux	690 lux	480 lux	350 lux	270 lux
Distance	50 ft	65 ft	80 ft	100 ft	115 ft	130 ft
Diameter	12.1 ft	15.7 ft	19.4 ft	24.2 ft	27.8 ft	31.5 ft
Illumination	180 fc	110 fc	70 fc	43 fc	33 fc	26 fc

Remote control

- **Data protocol:** USITT DMX512-A
  RDM / Art-Net / sACN
- **DMX chart:**

- **Data IN connector:** 5 pins XLR male + etherCON RJ45
- **Data OUT connector** 5 pins XLR female

Mode 1 (1 channels)	Mode 2 (2 channels)	Mode 3 (5 channels)	Mode 4 (6 channels)	Mode 5 (6 channels)	Mode 6 (8 channels)
Dimmer	Dimmer	Dimmer	Dimmer	Dimmer	Dimmer
	Dimmer fine	Strobe duration	Dimmer fine	Master dimmer	Dimmer fine
		Strobe speed	Strobe duration	Strobe duration	Master dimmer
		Response time	Strobe speed	Strobe speed	Master dimmer fine
		Control mode	Response time	Response time	Strobe duration
			Control mode	Control mode	Strobe speed
					Response time
					Control mode

Dimensions and weight
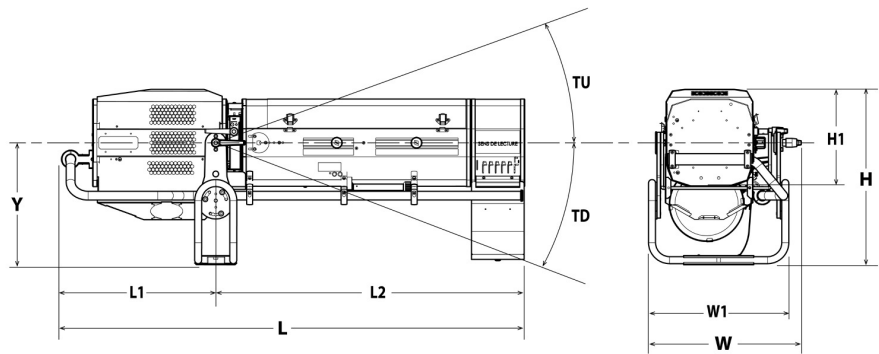
Weight: 41 kg (90.2 lbs)

Height	Length	Width	Yoke	Tilt	Option
H= 480 mm (18.9 in) H1= 375 mm (14.8 in)	L= 1321 mm (52 in) L1= 545 mm (21.5 in) L2= 776 mm (30.6 in)	W= 418 mm (16.5 in) W1= 350 mm (13.8 in)	Y= 325 mm (12.8 in)	TU= 35° TD= 45°	TO= 65°

Shipping

- **Weight :** 55 kg (121 lbs)

- **Volume :** .39 m^3 (13.62 ft^3)

Installation

- **Minimum distance to illuminated surface:** 1.5 m (4.9 ft)

- **Operating position:**
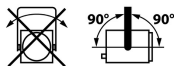
Construction

- **Housing:** Steel sheet - Aluminium
- **Colour:** Black
- **Cooling:** Variable fans
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** 65°C (149°F)
- **Total heat dissipation:** 2 184 BTU/h
- **Ingress Protection (IP) rating**: IP20

Warranty

- **Fixture: 3 years**
See General Sales Condition on website
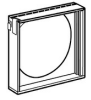
Acoustics

- **Noise level: < 39,9 dB(A)**

Approvals

Electrical compatibility

- 220/230 V - 50 Hz
- 245 V - 50 Hz
- 110/120 V - 60 Hz
- 208 V - 60 Hz
- 220/230 V - 60 Hz
- 100 V - 50 Hz
- 100 V - 60 Hz
- Selector: automatic detection

Power input

- **Type:** removable power cord with compatible powerCON® TRUE1 connector (included)
- **Cable:** H07RNF 3G1.5
- **Length:** 3 m (9.8 ft)
- **Power connector:** CEE 7/7 (2P+E NF/Schuko)

Power consumption

Voltage	Frequency	Current	Power	Power factor
230 V	50 Hz	2.8 A	640 W	0.99
120 V	60 Hz	5.5 A	649 W	0.99
100 V	60 Hz	6.7 A	655 W	0.99

Power Supply Unit

- **PSU:** Internal - Electronic PSU - Flicker free with PFC
- **Control:** Local / DMX
- **Protection:** Mains: 10A 1P1D breaker - UL /
- **Power thru:** compatible powerCON® TRUE1 - Maximum of 5 units (230 V) / 2 units (120 V)

Model

1169	LED 600 W Followspot - 1169 Oz - Cool White - 7/14.5°
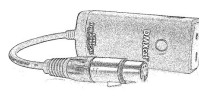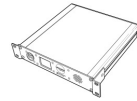
Options

PCP1716A	16A blue 2P+E 6h IEC60309 power connector	
FRO/1117PV	Heavy duty adjustable yoke	
FRO/SMEPV	Heavy duty adjustable yoke equipped with TILT SpotMe sensor (E type)	
PG80	Ø80mm chopper kit (G80+ GR120+ adaptation kit)	
M210TM	6 ways "push/pull" colour changer	
CAV700P1	Double slot front cassette for 215x215mm accessories (instead of "boomerang" colour changer)	
CAG/CL	Left side controls option for Oz & Alice (Iris/Dimmer/Frost/Colour changer/Display)	
FC1169	Flight-case for Oz & Alice / GT stand / accessories - Dim: 1340x710x700mm - Weight: 55 Kg	

Accessories

CCU1	Full closing iris cassette - Ø72mm - Weight: 1.33 Kg **1 included**	
PF1011	Ø210 mm metal filter holder **6 included**	
SGUP2	Universal "A" size gobo-holder (metal, glass, frosted glass) **1 included**	
VDM100	Ø97mm frosted glass with holder **1 included**	
M210B	6 ways "boomerang" colour changer - Weight: 3.36 Kg **1 included**	
CCU1SM	Full closing iris cassette with position sensor for SpotMe system - Ø72mm	
GT4000	Tripod stand with safety chain - SWL: 130 Kg - max. height: 1030 mm - Weight: 7.91 Kg	
GT4000RSM	Tripod stand with ball head rotation with security chain and SpotMe PAN sensor - SWL: 130 Kg - max. height: 1030 mm	

GT4000S	Tripod stand without safety chain - SWL: 130 Kg - max. height: 1030 mm - Weight: 8.65 Kg	
JPP	Monopod stand for overhead followspot - Weight: 3.6 Kg	
T1000	TV spigot with followspots swivel head - Weight: 1.82 Kg	
T4000	Followspot mount for Ø50mm pipe (suspension or overhead) - SWL= 100 Kg - Weight: 4.88 Kg	
T4000RSM	Followspot mount with ball head rotation and SpotMe PAN sensor - SWL = 100 Kg - Weight: 8.53 Kg	
CAV700A	Double slot front cassette for 215x215mm accessories - Weight: 0.52 Kg	
FCM100R	Ø97mm 1/2 CTO correction filter (Rosco #3408) with holder	
VD120	120x120mm frosted glass	
FRO/1017PD	Heavy duty adjustable yoke - Weight: 4.33 Kg	
FRO/SMEPD	Heavy duty adjustable yoke equipped with TILT SpotMe sensor (E type)	
G80	Ø80mm horizontal chopper - Weight: 0.37 Kg	
GR120	Slot reducer for SGUP gobo holder (if PG80 option) - Weight: 0.2 Kg	
Kit G80	Ø80mm chopper kit (G80+ GR120+ adaptation kit) - Weight: 0.69 Kg	
M210T	6 ways "push/pull" colour changer - Weight: 3.67 Kg	
M210TVCL	Light shield for M210T push/pull colour changer - Weight: 1.98 Kg	
BK/E1	Extra weight kit for BK1 (0,5 Kg) - Weight: 0.5 Kg	
BK1	Followspot balancing kit (including 1 Kg counterweights) - Weight: 2.05 Kg	
Kit TELRAD	Telrad followspot sight with raiser and universal mounting kit - Weight: 1.23 Kg	
SDUP	Followspot cue sheet holder with universal mounting kit	

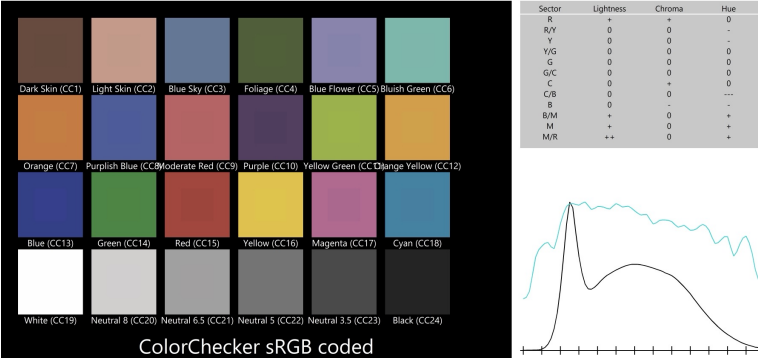|		
TCSM	SpotMe calibration tool kit	
DMXcat	Bluetooth DMX/RDM Multifunction test tool - City Theatrical DMXcat®	
Maestro	Maestro server for SpotMe - rackable unit: 1U - half 19" - Weight: 1.2 Kg	

Light quality report

CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI
5 760K	0.0003	92	63	89	89	96	90

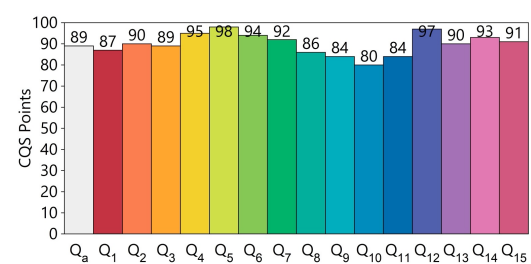## CRI - CIE Colour Rendering Index

CRI Points: R_a 92, R_1 93, R_2 97, R_3 97, R_4 89, R_5 91, R_6 92, R_7 92, R_8 85, R_9 63, R_{10} 92, R_{11} 89, R_{12} 70, R_{13} 95, R_{14} 99, R_{15} 91

CQS - NIST Colour Quality Scale

CQS Points: Q_a 89, Q_1 87, Q_2 90, Q_3 89, Q_4 95, Q_5 98, Q_6 94, Q_7 92, Q_8 86, Q_9 84, Q_{10} 80, Q_{11} 84, Q_{12} 97, Q_{13} 90, Q_{14} 93, Q_{15} 91
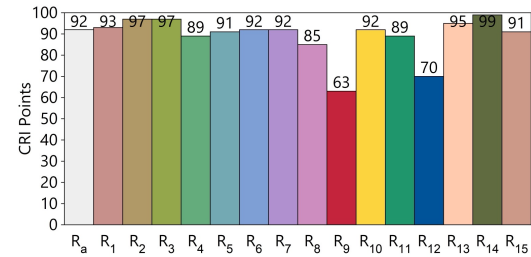
TLCI - Television Lighting Consistency Index

Test : CCT = D5759 (-0.5)

TLCI-2012 : 90 (D5759)

Sector	Lightness	Chroma	Hue
R	+	+	0
R/Y	0	0	-
Y	0	0	0
Y/G	0	0	-
G	0	0	0
G/C	0	0	0
C	0	+	0
C/B	0	0	-
B	0	-	---
B/M	+	0	+
M	+	0	+
M/R	++	0	+

Dark Skin (CC1), Light Skin (CC2), Blue Sky (CC3), Foliage (CC4), Blue Flower (CC5), Bluish Green (CC6)
Orange (CC7), Purplish Blue (CC8), Moderate Red (CC9), Purple (CC10), Yellow Green (CC11), Orange Yellow (CC12)
Blue (CC13), Green (CC14), Red (CC15), Yellow (CC16), Magenta (CC17), Cyan (CC18)
White (CC19), Neutral 8 (CC20), Neutral 6.5 (CC21), Neutral 5 (CC22), Neutral 3.5 (CC23), Black (CC24)

ColorChecker sRGB coded

ANSI/IES TM-30-18 Colour Rendition Report

R_f 89, R_g 96, CCT 5759 K, D_{uv} 0,0003

Local Chroma Shift ($R_{cs,hj}$): -6%, -3%, -2%, -2%, -5%, -3%, -6%, -6%, -4%, -1%, 4%, 4%, 4%, 0%, 5%, -4%

Local Hue Shift ($R_{hs,hj}$): 0.01, 0.03, 0.03, 0.01, -0.00, -0.01, 0.01, 0.06, 0.13, 0.12, 0.10, -0.00, -0.05, -0.06, -0.15, -0.01

Local Color Fidelity, $R_{f,hj}$ (Hue-Angle Bin j): 1: 86, 2: 92, 3: 91, 4: 91, 5: 90, 6: 95, 7: 90, 8: 87, 9: 85, 10: 81, 11: 83, 12: 94, 13: 90, 14: 90, 15: 81, 16: 92

Color Sample Fidelity, $R_{f,CESi}$ (CES Color)

Colours are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00