RES - 9645

9605X - LED 600 W

- **Type:** Profile spot
- Source: LED 600 W
- Optics: 15° to 40° zoom
- Colour temperature: Cool White

The bright new classic in LED profile technology with mighty output

Sharing its technology, output and quality of light with Oz and Alice, Robert Juliat presents its brilliant range of LED profiles, the Charles 960SX series. This range of 600W LED profiles is available in 3 variable zoom ranges and exhibits a high optical efficiency with a 6000K colour temperature and a CRI in excess of 90. Smooth electronic dimming and an in-built, flicker-free power supply gives silent operation and packs a high output that reaches 80% of the renowned 2.5 kW HID D'Artagnan capabilities.

Features

- Multi-function double gate: simultaneous use of gobos and iris. Sharp focus of both gobo and shutter
- · Shutter gate: up to 8 shutters. Remove shutters for easy
- maintenance or tuck fully inside gate for secure transport
- User-friendly shutter-lock system: secures shutters' setting in any
- circumstances (locking efficient up to 4 shutters)
- · Universal gobo holder: "A" size glass and metal gobo
- · Lens tube lock feature: secures rotating lens tube against
- unwanted movement
- · 90° rotating lens tube / gate / front accessories holder: rotation of the projected image is always possible - no need to move the yoke
- · Internal glass filter holder: long term use of durable coloured,
- dichroic or textured glass
- XLR7 connector: for fan cooled front extension cassette
- (recommended for dark colours)
- · Adjustable response time: choice of fast or slow dimming for tungsten-like simulation - adjustment by DMX protocol
- · Ethernet-DMX node: data IN through RJ45 connector; data OUT through DMX for daisy chaining • Universal data control: compatible with DMX, RDM, Art-Net, sACN
- protocols
- Remote setup: all parameters can be adjusted by RDM protocol
- DMX: 8 or 16 bit dimming and strobe function
- · 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
- · Easy focus reference: graduated scale on side of the unit; fast and easy refocusing
- · Tilt reference on hanging yoke: index for rapid re-positioning

Optical

- · Long life: outstanding operational lifetime expectation, no need to replace lamps, low maintenance
- · Gobo : excellent gobo projection
- Variable zoom optics: sharp focus at every beam angle.

Independent control of image size and focus. Focus handles on both sides

· 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-andplay installation

• Power connectors: neutrik® powerCON TRUE1 TOP 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
- · Moving parts: smooth at all times, even when hot

· Captive knobs and handles: additional security when working at height or in transit

Spare parts and accessories: interchangeable across the

tungsten, discharge or LED ranges, reducing running costs · Easy access to all parts: easy cleaning and maintenance

Picture 964SX

DSEN356_964SX - 23/03/2022 Robert Juliat reserves the right to change or alter any of the items detailed on this page. to increase or improve manufacturing techniques without prior notice. Robert Juliat S.A.S., 32 rue de Beaumont, 60530 Fresnoy-en-Thelle - France Telephone : +33 (0)3 44 26 51 89 - fax : +33 (0)3 44 26 90 79 - info@robertjuliat.fr www.robertjuliat.com

ROBERT JULIAT

- Lamp type: LED Power: 600 W

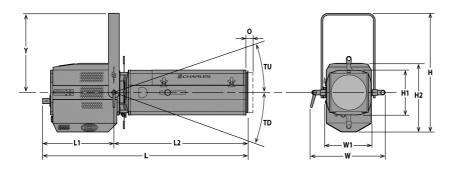
LED specificat	ions	Powe	5 M ^	Lumen output [*]	Colour temperature [*]		Life [*]	CRI [*] (min)
LED 600W		600	w a	32 500 lm	6000K	20	000	h 91
					Life a	lata following	L70B50) standard - (*) manufacturer's d
Optics								
Characteristic	s	Ge	l filter			Gobo		
Type: Zoom		• SI	hape:	Square		• Size:		A
Beam range: 1	5° to 40°		-	 215x215 mr	n (8.5x8.5 in)	Mate	rial:	Metal (75 mm
Focal length:	110 - 326 mm			e: 245x245 m				Glass
		-						100 mn
Photometrics								100 mn *Maximum imag
with LED 600W source	.							
Optics @ 15	-							Beam intensit
-					Beam angle 50%		Field angle 3%	487 100 cd
				13°	n al 50%	14°	dar 3%	-
	Į.				gear		lei	Field lumens
v					Ш		-	
Distance	5 m	10 m	15 m	20 m	25 m	30 m		Efficacy 29 lm/W
	1.2 m	2.5 m	3.7 m	4.9 m	6.1 m	7.4 m		29 111/00
Diameter				1.050 hm	780 lux	550 lux		
Diameter Illumination	19 500 lux	4 900 lux	2 200 lux	1 250 lux	700 108	000 10/		
	19 500 lux 15 ft	4 900 lux 35 ft	2 200 lux 50 ft	65 ft	80 ft	100 ft		
Illumination			50 ft 12.3 ft		80 ft 19.6 ft	100 ft 24.6 ft		
Illumination Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft		
Illumination Distance Diameter Illumination	15 ft 3.7 ft 2 200 fc	35 ft 8.6 ft	50 ft 12.3 ft	65 ft 16 ft	80 ft 19.6 ft	100 ft 24.6 ft	 	
Illumination Distance Diameter Illumination	15 ft 3.7 ft 2 200 fc	35 ft 8.6 ft	50 ft 12.3 ft	65 ft 16 ft	80 ft 19.6 ft 80 fc	100 ft 24.6 ft		Beam intensit
Illumination Distance Diameter	15 ft 3.7 ft 2 200 fc	35 ft 8.6 ft	50 ft 12.3 ft	65 ft 16 ft 120 fc	80 ft 19.6 ft 80 fc	100 ft 24.6 ft 49 fc	angle	Beam intensit 66 700 cd
Illumination Distance Diameter Illumination	15 ft 3.7 ft 2 200 fc	35 ft 8.6 ft	50 ft 12.3 ft	65 ft 16 ft	80 ft 19.6 ft	100 ft 24.6 ft	Field angle 3%	Beam intensit 66 700 cd Field lumens

Field	lumens
19 5	590 lm

Distance	5 m	10 m	15 m	20 m	25 m	30 m	E
Diameter	3.6 m	7.3 m	10.9 m	14.6 m	18.2 m	21.8 m	·
Illumination	2 700 lux	670 lux	300 lux	170 lux	110 lux	75 lux	
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft	
Diameter	10.9 ft	25.5 ft	36.4 ft	47.3 ft	58.2 ft	72.8 ft	
Illumination	300 fc	55 fc	27 fc	16 fc	11 fc	7 fc	

Remote control

		I		
Data protocol:	USITT DMX512-A	Data IN conne	ctor: 5 pins XLR mâle + etherCON RJ45	3
• DMX chart:	RDM / Art-Net / sACI	N │ • Data OUT con	nector 5 pins XLR femelle	
	1		1	
Mode 1 (1 channels)	Mode 2 (2 channels)	Mode 3 (5 channels)	Mode 4 (6 channels)	
Dimmer	Dimmer	Dimmer	Dimmer	
	Dimmer fine	Strobe duration	Master dimmer	
		Strobe speed	Strobe duration	
		Response time	Strobe speed	
		Control mode	Response time	
			Control mode	
1	1	1	1	



Weight: 32.5 kg (71.5 lbs)

Approvals

CE

Height	Length	Width	Yoke	Tilt	Option
H= 659 mm (25.9 in) H1= 250 mm (9.8 in) H2= 381 mm (15 in)	L= 867 mm (34.1 in) L1= 395 mm (15.6 in) L2= 471 mm (18.5 in)	W= 368 mm (14.5 in) W1= 250 mm (9.8 in)	Y= 440 mm (17.3 in)	TU= 68° TD= 90°	O= 25 mm (1 in)

Warranty

Acoustics

• Fixture: 3 years See General Sales Condition on website

• Noise level: < 38,2 dB(A)

Shipping

43 kg (94.6 lbs) • Weight :

• Volume : .3 m³ (10.59 ft³)

Installation

• Minimum distance to illuminated surface: 0.2 m (0.7 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

Electrical compatibility

- 220/230 V 60 Hz
- 220/230 V 50 Hz • 245 V - 50 Hz

• 100 V - 50 Hz

• 110/120 V - 60 Hz

- 100 V 60 Hz
- 208 V 60 Hz
- Selector: automatic detection

Power input



- Type: removable power cord with Neutrik
- powerCON TRUE1 TOP 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: -
- Power thru: Neutrik powerCON TRUE1 TOP Maximum of 5 units (230 V) / 2 units (120 V)

Model

964SX	LED 600 W Profile spot - 964SX Charles - Cool White - 15/40°	
Options		
CAV700	Double slot front cassette for 215x215mm accessories	
CAV700J	Double slot front cassette for 245x245mm accessories	
PCP1716A	16A blue 2P+E 6h IEC60309 power connector	

Accessories

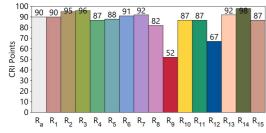
D8	Shutter for SX series 4 included	
PF1000M2	215x215mm metal filter holder 1 included	
SGUX	Universal "A" size gobo-holder (metal, glass, frosted glass) 1 included	
IWSX755	Drop-in iris (monoplane) with holder - Poids: 0.26 Kg	
G1000	215x215mm safety grid	
CAV700A	Double slot front cassette for 215x215mm accessories - Poids: 0.52 Kg	
CAV700AJ	Double slot front cassette for 245x245mm accessories - Poids: 0.95 Kg	
RPF960	Front extension cassette for 215x215mm accessories with XLR7 fan (recommended for dark colours on 960SX) - Poids: 1.7 Kg	
RPF960E	Front extension cassette for 245x245mm accessories with XLR7 fan (recommended for dark colours on 960SX) - Poids: 1.7 Kg	
VD120	120x120mm frosted glass	
FCD700	Angled yoke - Poids: 1.62 Kg	\sum
DMXcat	Bluetooth DMX/RDM Multifunction test tool - City Theatrical DMXcat®	
876	Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Poids: 1.25 Kg	J.
		- A

880	Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Poids: 1.36 Kg	
CS2	Safety cable Ø3 mm L= 600mm - SWL: 75 Kg	

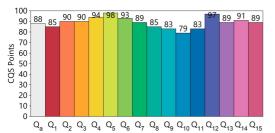
Light quality report

ССТ	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI
5 950K	0.0034	90	52	88	88	95	89

CRI - CIE Colour Rendering Index



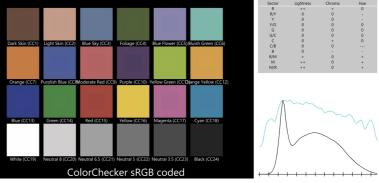
CQS - NIST Colour Quality Scale

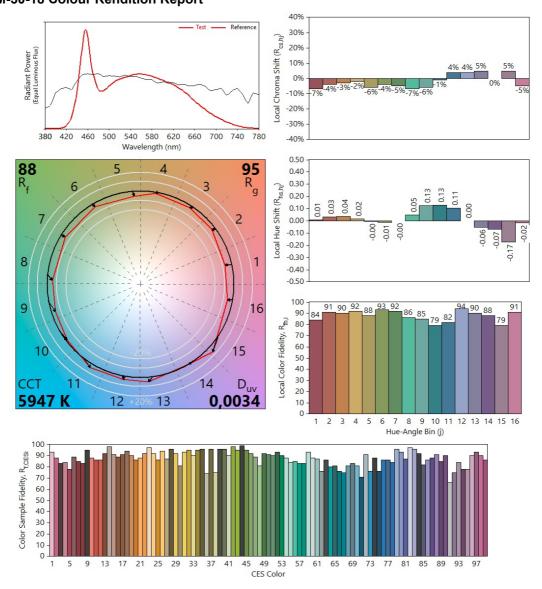


ANSI/IES TM-30-18 Colour Rendition Report

TLCI - Television Lighting Consistency Index







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