CHARLES - 9615X

*96*05X - LED 600 W

Personal and a second sec

- Type: Profile spot
- Source: LED 600 W
- Optics: 8° to 16° 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

• Gate lock feature: secures rotating gate against unwanted movement

• 90° rotating gate : 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

• 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 repositioning

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-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
- 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:961SX

DSEN352_961SX - 08/11/2024 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 - info@robertjuliat.fr - www.robertjuliat.com**

ROBERT JULIAT

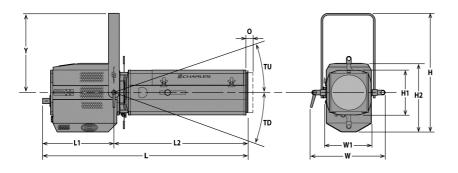
- Lamp type: LED Power: 600 W

LED specificati	ons	Powe	· · · · · · · · · · · · · · · · · · ·	umen output	Colour temperature [*]		Life [*]		CRI [°] (min)
LED 600W		600 \	N 32	2 500 lm	6000K	20) 000 h	ı	91
Optics									(*) manufacturer's d
Characteristic	s	Ge	l filter			Gobo			
• Type: Zoom • Range: 8° to 16 • Focal length: 2	• • •	• St		Square 215x215 mr 245x245 mr	, ,	• Size: • Mate	rial:	A Metal Glass	100 mm ⁺ Maximum imag
									*Maximum imag
Photometrics									
optics: 8°-16° / Standard									
optics: 8°-16° / Standard				8°	Beam angle 50%	8°	Field angle 3%		1 036 300 cd
optics: 8°-16° / Standard • Optics @ 8°	10 m	20 m	30 m	8° 40 m	Beam angle 50%	8° 60 m	Field angle 3%		1 036 300 cd Field lumens 12 850 lm Efficacy
optics: 8°-16° / Standard • Optics @ 8°		20 m 2.8 m	30 m 4.2 m				Field angle 3%		1 036 300 cd [°] Field lumens 12 850 lm
optics: 8°-16° / Standard • Optics @ 8° • Optics @ bistance	10 m			40 m	50 m	60 m	Field angle 3%		Field lumens 12 850 lm Efficacy
optics: 8°-16° / Standard • Optics @ 8° • Optics @ bistance Diatance	10 m 1.4 m	2.8 m	4.2 m	40 m 5.6 m	50 m 7 m	60 m 8.4 m	Field angle 3%		1 036 300 cd [°] Field lumens 12 850 lm Efficacy
optics: 8°-16° / Standard • Optics @ 8° • Optics @ 20 • Optics @ 20 • Optics • Optics @ 20 • Optics •	10 m 1.4 m 10 500 lux	2.8 m 2 600 lux	4.2 m 1 200 lux	40 m 5.6 m 650 lux	50 m 7 m 420 lux	60 m 8.4 m 290 lux	Field angle 3%		1 036 300 cd [°] Field lumens 12 850 lm Efficacy

Optics @ 16				15°	Beam angle 50%	16°	Field angle 3%	Beam intensity 314 500 cd Field lumens 14 300 lm
Distance	10 m	20 m	30 m	40 m	50 m	60 m	I	Efficacy 22 lm/W
Diameter	2.8 m	5.6 m	8.4 m	11.2 m	14.1 m	16.9 m		22 111/ 00
Illumination	3 150 lux	790 lux	350 lux	200 lux	130 lux	90 lux		
Distance	35 ft	65 ft	100 ft	130 ft	165 ft	195 ft		
Diameter	9.8 ft	18.3 ft	28.1 ft	36.5 ft	46.4 ft	54.8 ft		
Illumination	260 fc	75 fc	32 fc	19 fc	12 fc	9 fc		

Remote control

• Data protocol: USITT DMX512-A • Data IN connector: 5 pins XLR male + etherCON RJ45	0
• DMX chart:	6
Mode 1 (1 channels) Mode 2 (2 channels) Mode 3 (5 channels) Mode 4 (6 channels)	
Dimmer Dimmer Dimmer Dimmer	
Dimmer fine Strobe duration Dimmer fine	
Strobe speed Strobe duration	
Response time Strobe speed	
Control mode Response time	
Control mode	



Weight: 35.2 kg (77.4 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)	· · · · · ·	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: < 39,9 dB(A)

Shipping

47 kg (103.4 lbs) • Weight :

• Volume : .35 m³ (12.36 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 50 Hz • 220/230 V - 60 Hz
- 245 V 50 Hz

• 100 V - 50 Hz • 100 V - 60 Hz

- 110/120 V 60 Hz • 208 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

961SX	LED 600 W Profile spot - 961SX Charles - Cool White - 8/16°	
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

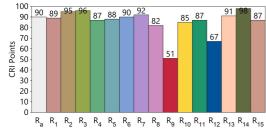
D8	Shutter for SX series 4 included	
PF1000M2	215x215mm metal filter holder 1 included	
SGUX	Universal "A" size gobo-holder (metal, glass, frosted glass) 1 included	
IWSX755	Drop-in iris (monoplane) with holder - Weight: 0.26 Kg	
D8	Shutter for SX series	<u> </u>
G1000	215x215mm safety grid	
CAV700A	Double slot front cassette for 215x215mm accessories - Weight: 0.52 Kg	
CAV700AJ	Double slot front cassette for 245x245mm accessories - Weight: 0.95 Kg	
RPF960	Front extension cassette for 215x215mm accessories with XLR7 fan (recommended for dark colours on 960SX) - Weight: 1.7 Kg	
RPF960E	Front extension cassette for 245x245mm accessories with XLR7 fan (recommended for dark colours on 960SX) - Weight: 1.7 Kg	
VD120	120x120mm frosted glass	
FCD700	Angled yoke - Weight: 1.62 Kg	\sum
DMXcat	Bluetooth DMX/RDM Multifunction test tool - City Theatrical DMXcat®	
		50

880 Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Weight: 1.36 Kg CS2 Sefety cable Ø2 mm L = 600mm SWL: 75 Kg	876	Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Weight: 1.25 Kg	
$\mathbf{CS2} \qquad \qquad \text{Sofety coble } \mathcal{O}2 \text{ mm } \mathbf{I} = 600 \text{ mm } \mathbf{S} \mathbf{W} \mathbf{I} \div 75 \mathbf{K} \mathbf{g}$	880		No.
	CS2	Safety cable Ø3 mm L= 600mm - SWL: 75 Kg	

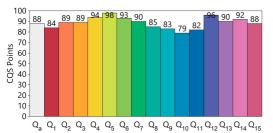
Light quality report

ССТ	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI
5 770K	0.0033	90	51	88	88	96	89

CRI - CIE Colour Rendering Index

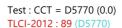


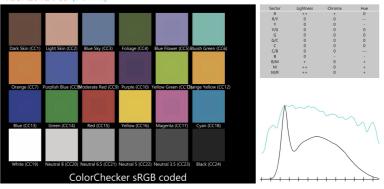
CQS - NIST Colour Quality Scale

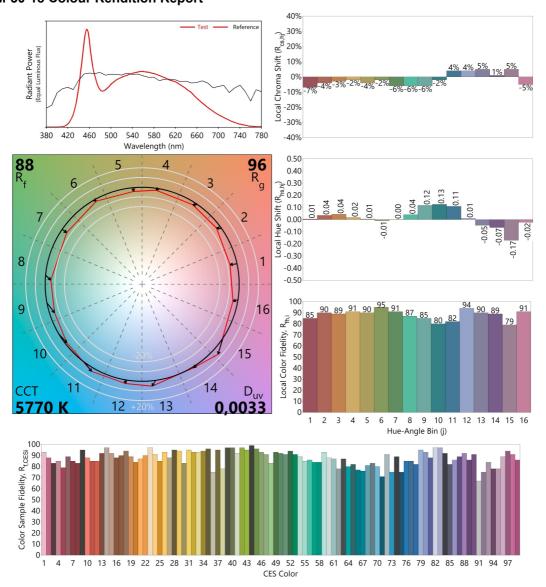


ANSI/IES TM-30-18 Colour Rendition Report

TLCI - Television Lighting Consistency Index







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