R 65 - 96=

9605X - LED 600 W



- **Type:** Profile spot
- Source: LED 600 W
- Optics: 29° to 50° 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 963SX

ROBERT JULIAT

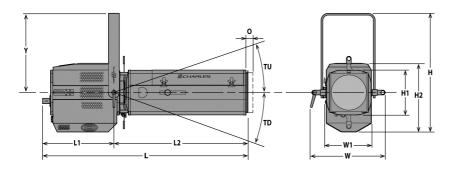
- Lamp type: LED Power: 600 W

LED specificat	ions	Powe	er *	Lumen output [*]	Colour temperature [*]		Life [*]	CRI [*] (min)
LED 600W		600	W	32 500 lm	6000K	20	000 h	91
Optics					Life o	lata following	L70B50 sta	ndard - (*) manufacturer's da
Characteristic	s	Ge	el filter			Gobo)	
• Type: Zoom		• S	hape:	Square		• Size:	A A	
• Beam range: 2	29° to 50°		-	i ze: 215x215 m	m (8.5x8.5 in)	• Mate	rial: M	letal
• Focal length: 8	82 - 144 mm			ze: 245x245 m	, ,		G	
		-						100 mm *Maximum image
Photometrics								*Maximum image
with LED 600W source								
• Optics @ 29°	0						1	
E.					0		e	Beam intensity
				30°	Beam angle 50%	31°	Field angle 3%	97 000 cd
					5 5	•	ield	Field lumens
U					– –		–	18 680 lm
Distance	5 m	10 m	15 m	20 m	25 m	30 m	-1	Efficacy 29 lm/W
Diameter	2.8 m	5.5 m	8.3 m	11.1 m	13.9 m	16.6 m		29 111/ 11
Illumination	3 900 lux	980 lux	440 lux	250 lux	160 lux	110 lux		
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft		
Diameter	8.3 ft	19.4 ft	27.7 ft	36.1 ft	44.4 ft	55.5 ft		
Illumination	440 fc	80 fc	39 fc	23 fc	16 fc	10 fc		
• Optics @ 50°	0						1	
					<u>0</u>		e	Beam intensity
					Jgle		Igle	39 900 cd

				48°	Beam angle 50%	52°	Field angle 3%	Beam intensity 39 900 cd Field lumens 21 050 lm
Distance	5 m	10 m	15 m	20 m	25 m	30 m	I	Efficacy 33 lm/W
Diameter	4.9 m	9.8 m	14.6 m	19.5 m	24.4 m	29.3 m		55 111/ 10
Illumination	1 600 lux	400 lux	180 lux	100 lux	65 lux	45 lux		
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft		
Diameter	14.6 ft	34.1 ft	48.8 ft	63.4 ft	78 ft	97.5 ft		
Illumination	180 fc	33 fc	16 fc	10 fc	7 fc	4 fc		

Remote control

Kennote control		1			
Data protocol:	USITT DMX512-A	Data IN conne	ctor:	5 pins XLR mâle + etherCON RJ45	
• DMX chart:	RDM / Art-Net / sAC	• Data OUT con	nector	5 pins XLR femelle	
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 d	immer	
		Strobe speed	Strobe d	uration	
		Response time	Strobe s	peed	
		Control mode	Respons	e time	
			Control r	node	



Weight: 30.5 kg (67.1 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= 780 mm (30.7 in) L1= 395 mm (15.6 in) L2= 385 mm (15.2 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

41 kg (90.2 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 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 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

963SX	LED 600 W Profile spot - 963SX Charles - Cool White - 29/50°	
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

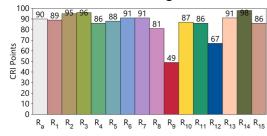
D8	Shutter for SX series 4 included	
PF1000M2	215x215mm metal filter holder 1 included	
SGUX	Universal "A" size gobo-holder (metal, glass, frosted glass) 1 included	
IWSX755	Drop-in iris (monoplane) with holder - Poids: 0.26 Kg	
G1000	215x215mm safety grid	
CAV700A	Double slot front cassette for 215x215mm 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	

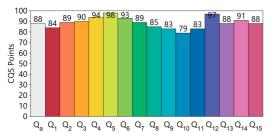
Light quality report

ССТ	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI
5 650K	0.0040	90	49	88	88	95	89

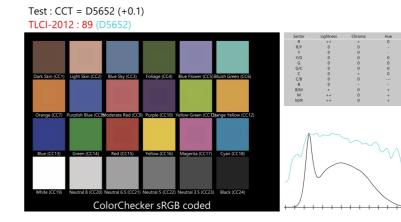
CRI - CIE Colour Rendering Index

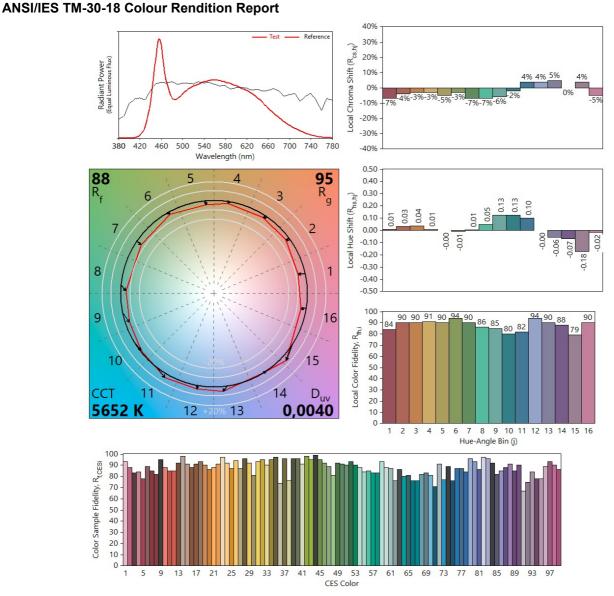


CQS - NIST Colour Quality Scale



TLCI - Television Lighting Consistency Index





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