

CHARLES - 963SX

960SX - LED 600W



- **Type:** Profile spot
- **Source:** LED 600W
- **Optics:** 29° to 50° zoom
- **Colour temperature:** Cool White

Profile spot

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
- **Universal data control:** compatible with DMX, RDM, Art-Net, sACN protocols
- **Easy setup:** locally and remotely by RDM protocol - integrated display
- **DMX:** 8 or 16 bits dimming and strobe function
- **Parameters:** adjustable curves and response thru 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 lantern; 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-and-play installation
- **Power connectors:** neutriK® powerCON TRUE1 IN and OUT connectors for daisy chaining
- **Ethernet-DMX node:** data IN through RJ45 connector; data OUT through DMX 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:** uniform across the tungsten, discharge or LED range, reducing running costs
- **Easy access to all parts:** easy cleaning and maintenance

Picture:963SX

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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.

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ROBERT JULIAT

Source

- 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
- Beam range: 29° to 50°
- Focal length: 82 - 144 mm

Gel filter

- Shape: Square
- Standard size: 215x215 mm (8.5x8.5 in)
- Optional size: 245x245 mm (9.6x9.6 in)

Gobo

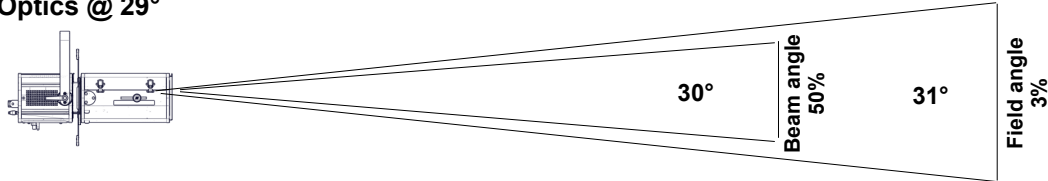
- Size: A
- Material: Metal
Glass



Photometrics

with LED 600W () source

• Optics @ 29°



Beam intensity
97 000 cd

Field lumens
18 680 lm

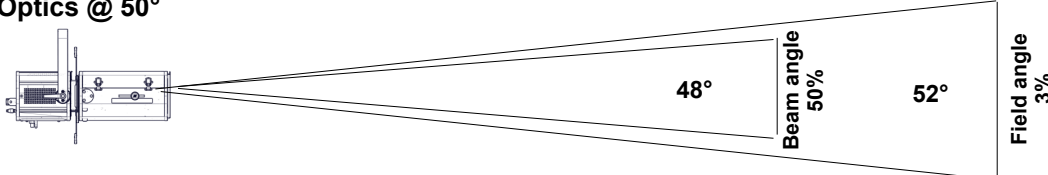
Efficacy
29 lm/W

CCT
5 600 K

CRI
90

Distance	5 m	10 m	15 m	20 m	25 m	30 m
Diameter	2.8 m	5.5 m	8.3 m	11.1 m	13.9 m	16.6 m
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°



Beam intensity
39 900 cd

Field lumens
21 050 lm

Efficacy
33 lm/W

CCT
5 580 K

Distance	5 m	10 m	15 m	20 m	25 m	30 m
Diameter	4.9 m	9.8 m	14.6 m	19.5 m	24.4 m	29.3 m
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

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

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



• DMX chart:

Mode 1 (1 channels)

Dimmer

Mode 2 (2 channels)

Dimmer
Dimmer fine

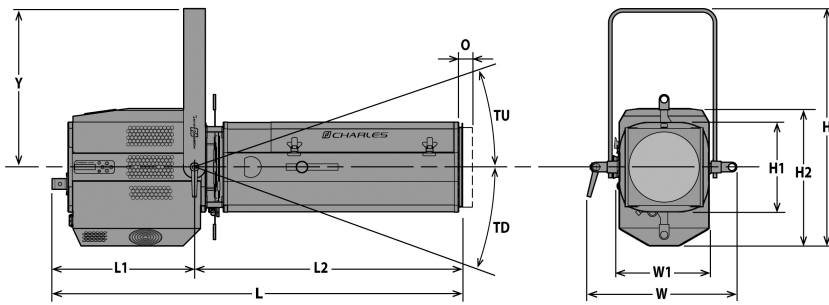
Mode 3 (5 channels)

Dimmer
Strobe duration
Strobe speed
Response time
Control mode

Mode 4 (6 channels)

Dimmer
Master dimmer
Strobe duration
Strobe speed
Response time
Control mode

Dimensions and weight



Weight: 30.5 kg (67.1 lbs)

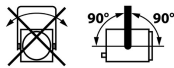
Height	Length	Width	Yoke	Tilt	Option
H= 659 mm (25.9 in)	L= 780 mm (30.7 in)	W= 368 mm (14.5 in)	Y= 440 mm (17.3 in)	TU= 68°	O= 25 mm (1 in)
H1= 250 mm (9.8 in)	L1= 395 mm (15.6 in)	W1= 250 mm (9.8 in)		TD= 90°	
H2= 381 mm (15 in)	L2= 385 mm (15.2 in)				

Shipping

- **Weight :** kg (0 lbs)
- **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:** Low noise variable fan
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** 65°C (149°F)
- **Total heat dissipation:** 2 184 BTU/h
- **Protection rating:** 20

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

Warranty

- **Period: 2 years**
See General Sales Condition on website

Approvals






Acoustics

- **Noise level:** < 38,2 dB(A)














Model

963SX	LED 600W Profile spot - 963SX Charles - Cool White - 29/50°
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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: ,26 Kg	
G1000	215x215mm safety grid	
CAV700A	Double slot front cassette for 215x215mm accessories - Weight: ,52 Kg	
CAV700AJ	Double slot front cassette for 245x245mm accessories - Weight: ,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	
876	Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Weight: 1,25 Kg	
880	Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Weight: 1,36 Kg	

CS2

Safety cable Ø3 mm L= 600mm - SWL: 75 Kg

