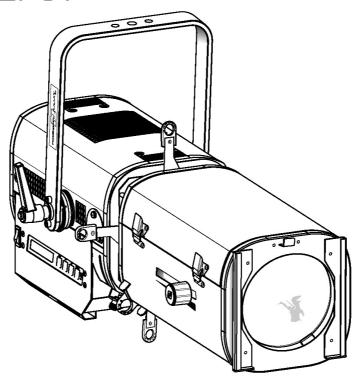
ZEP

PROJECTEUR DE DÉCOUPE PROFILE SPOT



REF.	STANDARD	NORD-AMÉRICAIN	
	<i>STANDARD</i>	NORTH AMERICAN	
28 <i>- 5</i> 4°	6435X	<i>6</i> 43C5X	
le – 35°	6445X	<i>6</i> 44CSX	
II - 26°	64ISX	64ICSX	

PROJECTEUR DE DÉCOUPE LED ISOW ISOW LED PROFILE SPOT

ZEP - 640SX Version V1 – 11/07/12

DN41014600 V1.1





Table of contents:

1		Instructions			
2		ntation			
	2.1	Functions			
	2.2	Identification plate			
	2.3	Accessories included	(
	2.4	Optional accessories			
3)	2		
Ü	3.1	Mechanics			
	3.1.1	Operating positions			
	3.1.1	Minimum distance between a flammable material and the lighting unit	٠.٠		
	3.1.3	Instructions for use			
	3.1.4	Hanging			
	3.1.5	Safety cable			
	3.2	Electrical	5		
	3.2.1	LED source	5		
	3.2.2	Power	5		
	3.2.3	DATA	6		
	3.3	Accessories	8		
	3.3.1	Front filtre holder			
	3.3.2	Internal filtre holder			
	3.3.3	Gobo holder / iris			
	3.3.4				
		Shutters			
4		tion			
	4.1	Light intensity			
	4.1.1	Range			
	4.1.2	Control	1(
	4.1.3	Parameters	10		
	4.2	Strobe	11		
	4.2.1	Range	11		
	4.2.2	Control			
	4.2.3	Parameters			
	4.3	Beam size adjustment			
	4.3.1				
		Range			
	4.3.2	Control			
	4.4	Orientation			
	4.4.1	Range			
	4.4.2	Control			
	4.5	Colour	13		
	4.6	Beam shaping	14		
	4.6.1	Range	14		
	4.6.2	Control	14		
	4.7	Beam rotation			
	4.7.1	Range			
	4.7.2	Control			
	4.8	Gobos			
	-				
	4.9	Control board			
	4.9.1	Display and Controls			
	4.9.2	Menus and parameters			
	4.9.3	DMX remote control			
	4.9.4	Reset			
	4.9.5	Feedback information	2		
5	Servic	e	2		
	5.1	Preventive maintenance	2		
	5.1.1	Frequency	2		
	5.1.2	General cleaning			
	5.1.3	General visual check			
	5.1.4	LED access			
	5.1.5	LED access			
	5.1.6	Optics			
	5.2	Analysis			
	5.3	LED reaction according to LED temperature			
	5.4	Thermal protection			
	5.5	Adjusting the maximum light output level			
	5.6	Exploded view / Spare parts list	22		
6	Troubl	eshooting	23		



1 User's instructions

GENERAL INSTRUCTIONS

- 1. Not for residential use.
- 2. These fixtures must only be serviced by a qualified technician.
- 3. In addition to the instructions indicated on this page, relevant health and safety requirements of the appropriate EU Directives must be adhered to at all times.
- 4. This fixture is in compliance with section 17 Lighting appliance for theatre stages, television, cinema and photograph studios. Standards NF EN 60598-1 and NF EN 60598-2-17.
- 5. This fixture is rated as IP20, and is for indoor use only.

FIXTURE

- 6. Ensure fixture is correctly mounted on an appropriate support.
- 7. Protection screens and lenses must be replaced in the event of any damage, such as cracks or deep scratches, since these might reduce performance.
- 8. When hung or flown the fixture must be secured by an additional hanging accessory (such as a safety cable or bond) of suitable length.
- 9. Safety bonds or cables must be securely attached to the back of the fixture and be as short as possible, or rolled up as necessary, to minimise travel distance should the fixture be dislodged.
- 10. Movable accessories (scroller, etc.) must also be secured with a suitable safety cable or bond at the front of the fixture.
- 11. The combined weight of both the fixture and the accessories must be considered when choosing the load-bearing capability of safety cable or bond.
- 12. Do not open lighting fixture when the source is on.
- 13. WARNING: LED source become hot during use. Allow fixture to cool before servicing.
- 14. Do not tamper with design of fixture nor any of its safety features.
- 15. Tighten electrical mains cable connections regularly and replace with one of identical specification if damaged.
- 16. Use only with correct power supply.

VENTILATION

- 17. Keep well away from flammable material.
- 18. Not for outdoor use. Do not cover. Do not permit fixture to get wet.
- 19. To avoid overheating, do not obstruct air vents.
- 20. Ensure any cooling fans are in correct working order. If fans are not working, turn fixture off immediately and service as necessary.

CLEANING

- 21. Do not touch LED source with fingers.
- 22. Clean all optical parts with alcohol-based cleaner.
- 23. Clean all filters regularly.

POWER SUPPLY

- 24. Disconnect from the mains before servicing.
- 25. Mains connection only. Do not connect to "electronic output" such as dimmer.
- 26. Not for outdoor use. Do not cover.
- 27. Ensure power supply circuit breakers, always remain accessible.

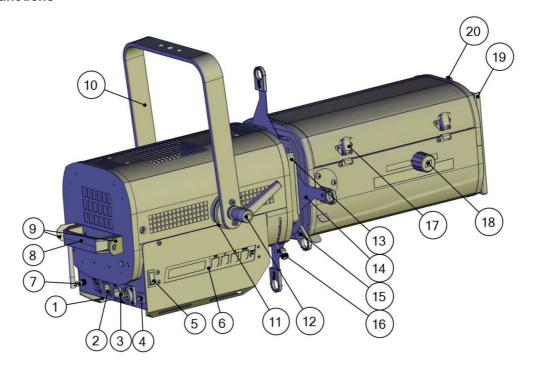
PLEASE NOTE

These products have been built to conform to European standards relating to professional lighting equipment. Any modification made to our products will void the manufacturers' warranty.



2 Presentation

2.1 Functions



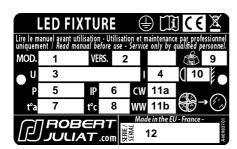
Functions:

- 1. Identification plate
- 2. Data connectors (IN and OUT)
- 3. Power connectors (IN and OUT)
- 4. Thermal breaker
- 5. Power switch
- 6. Control board
- 7. Wireless DMX antenna (option)
- 8. Handle
- 9. Safety cable attachement point
- 10. Hanging yoke
- 11. Tilt index

- 12. Tilt locking handle
- 13. Gate: slots for gobo holder and/or iris
- 14. Shutters
- 15. Shutter locking system
- 16. Lens tube rotation locking button
- 17. Lens tube access
- 18. Zoom adjustment
- 19. Front slot for accessoires and gel frame holder
- 20. Front slot locking system

2.2 Identification plate

Description:



- 1. MOD.: Model
- 2. VERS.: Version
- 3. U: Nominal voltage input (V)
- 4. I: Nominal intensity (A)
- 5. P: Maximum power input (W)
- 6. IP: International Protection Rating
- 7. t^a: Ambiant temperature (℃)
- 8. t° : Maximum external temperature of the unit (°C)
- 9. Net weight (Kg)
- 10. Minimum distance between a flammable material and the lighting unit (m)
- 11. Colour temperature version:
 - 11.a CW = Cool White
 - 11.b WW = Warm White
- 12. Serial number

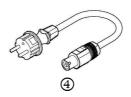


2.3 Accessories included





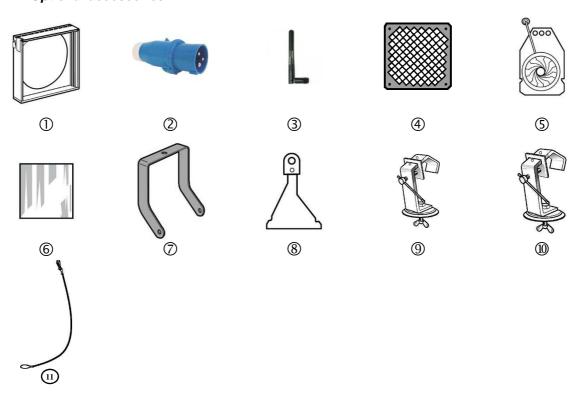






	Reference	Description	
1	PF500M2	180x180 mm (7.1x7.1 in) metal filter holder	
2	SGUX	Iniversal 'A'-size gobo holder (metal, glass,frosted glass)	
3	D8	Shutters (x4)	
4		Power cable with CEE7/7 type IN connectors (standard version)	
5		UL/CSA Power cable without connector (North American version)	

2.4 Optional accessories



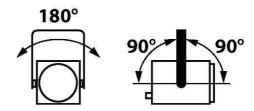
	Reference	Description	
1	CAV 600 A	Double slot front cassette for 180x180mm accessories	
	CAV 600 AE	Double slot front cassette for 185x185mm accessories	
	CAV600 C	Double slot front cassette for 191x191mm (7-1/2") accessories	
2	PCP1716A	IEC60309 6h 16A 2P+T blue (P17) power connector	
3	W-DMX	W-DMX wireless DMX	
4	G500	80x180mm safety grid	
5	IWSX755 I	Orop-in iris (monoplane) with holder	
6	VD 120	120x120mm inner frosted glass	
7		Angled yoke	
8	D8	Shutter	
9	876	40x10mm hook clamp with 28mm screw for Ø35 to Ø50mm	
10	880	40x10mm hook clamp with 28mm screw for Ø50 to Ø63mm	
11	CS2	Safety cable (length = 600mm)	



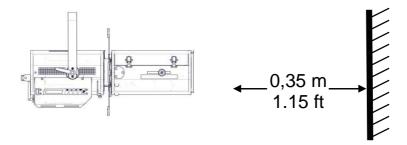
3 Set-up

3.1 Mechanics

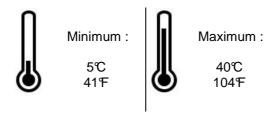
3.1.1 Operating positions



3.1.2 Minimum distance between a flammable material and the lighting unit



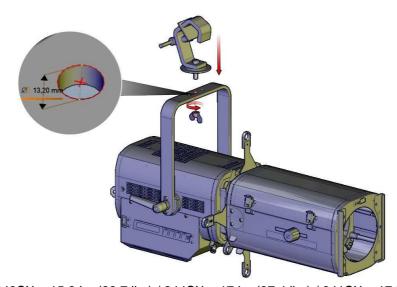
3.1.3 Instructions for use



IP20 - Indoor use only

3.1.4 Hanging

• Ensure fixture is correctly mounted on an appropriate support.

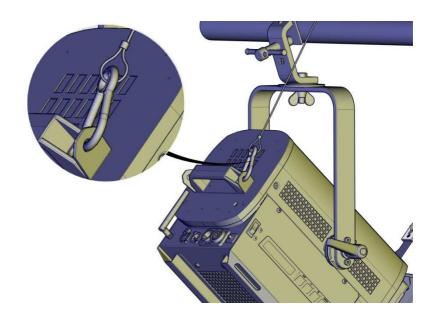


Net weight: 643SX = 15.3 kg (33.7 lbs) / 644SX = 17 kg (37.4 lbs) / 641SX = 17 kg (37.4 lbs)



3.1.5 Safety cable

- When hung or flown the fixture must be secured by an additional hanging accessory (such as a safety bond or cable) of suitable length.
- The combined weight of both the fixture and the accessories must be considered when choosing the load-bearing capability of safety cable or bond.
- Safety cables or bonds must be securely attached to the back of the fixture and be as short as possible, or rolled up as necessary, to minimise travel distance should the fixture be dislodged.



3.2 Electrical

3.2.1 LED source



Never touch or scratch LED surface.

Never use compressed air directly on LED chip.

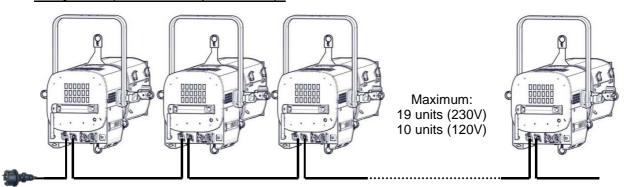
3.2.2 Power

Power supply			
Voltage	Frequency	Input power	Connectors
90 → 264 V	47-63 Hz	0,8 A / 185 W @ 230V 1,5 A / 185 W @ 120V 1,8 A / 185 W @ 90V Max. 2.1A Standby mode: 7 W	Neutrik powerCON TRUE1 ref. NAC3PX (max. 20A)

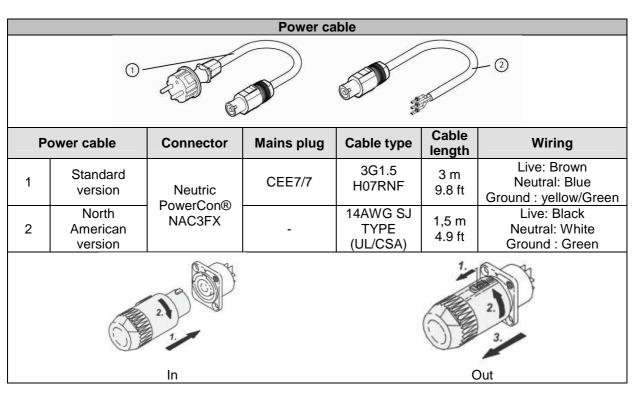


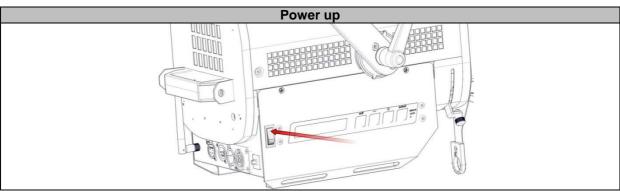
- Class 1 product. This luminaire must be grounded.
- Must be connected directly to AC power. **Do not connect to dimmer power**.
- Automatic power detection.
- 4A breaker.
- Daisy chain: maximum of 19 units (230V) / 10 units (120V)

Daisy chain (with delivered power cable):







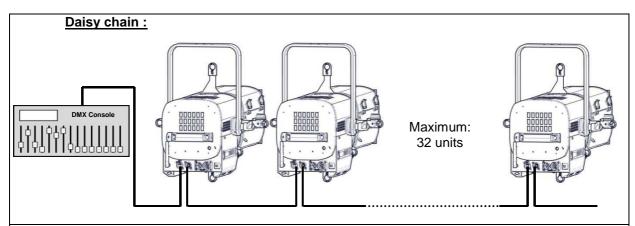


3.2.3 DATA

DATA			
Protocol	Input connector	Output connector	
USITT DMX 512-A	XLR 5-pin	XLR 5-pin	

	DATA connectors				
PIN#	DMX	Description	(0)		
1	Shielding	Foil & Braided Shield	2 3 4		
2	DMX (-)	1 st conductor of 1 st twisted pair	(1) (5) (5)		
3	DMX (+)	2 nd conductor of 1 st twisted pair			
4	Not used	1 st conductor of 2 nd twisted pair			
5	Not used	2 nd conductor of 2 nd twisted pair	DMX OUT DMX IN		



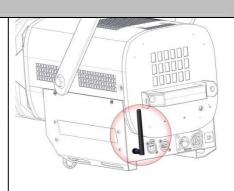


Integrated terminal plug:

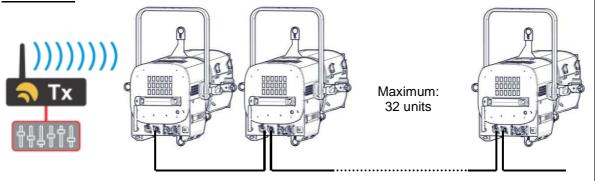
If no XLR connector is detected on DMX OUT connector, a 120Ω terminal plug is automatically activated. Additional terminal plug on the last unit is not necessary.

Wireless DMX option

- Protocol: Wireless Solution W-DMXTM
- Refer to the OEM User's manual for general recommendations and use of the transmitter: http://www.wirelessdmx.com
- The antenna must be clearly visible from the transmitter
- See. 4.9.2 for activation
- Do not connect a DMX IN data cable in case of wireless DMX use
- In case of protocol errors, the wireless DMX is automatically deactivated. To activate the wireless DMX again, disconnect the DMX IN data cable, and then switch the unit off and on.



DMX mode:

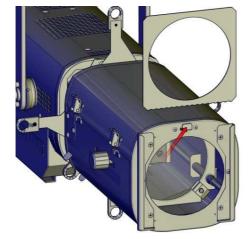


The first unit receives the DMX signal via the wireless network, then all the other units are connected to the first one via DMX data cable

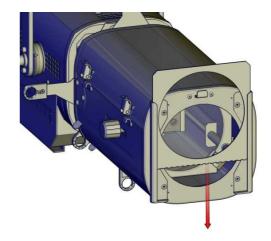


3.3 Accessories

3.3.1 Front filter holder

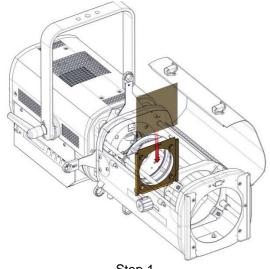


Step 1

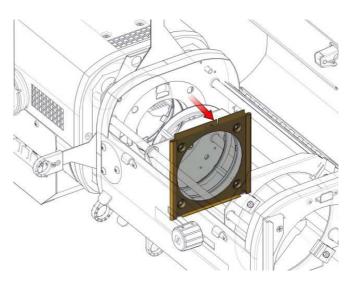


Step 2

3.3.2 Internal filter holder

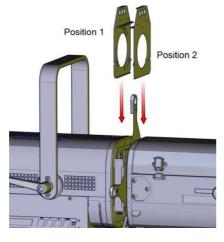


Step 1

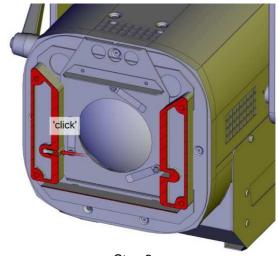


Step 2

3.3.3 Gobo holder / iris

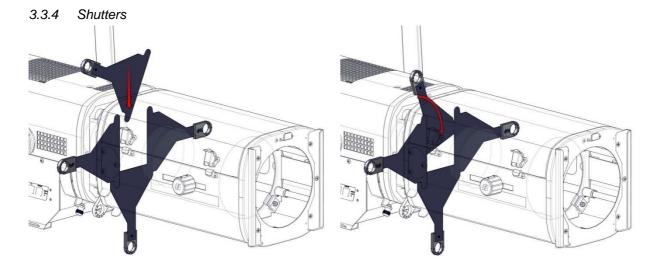


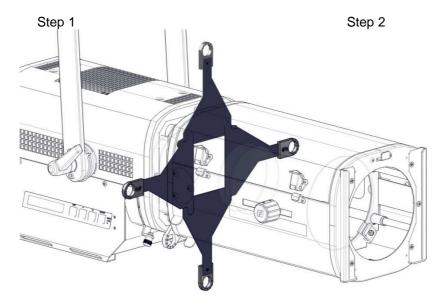
Step 1



Step 2







Step 3



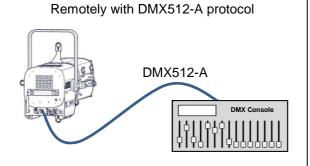
4 Operation

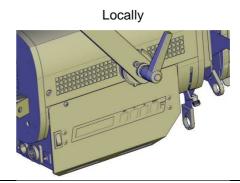
4.1 Light intensity

4.1.1 Range



4.1.2 Control





HTP mode (Highest Takes Precedence):

Light output is the highest value of DMX512 command or local control

Focus mode: when standby display 1/6 DMX CONFIG.

Push Exit → Light output = 100% for 1 minute

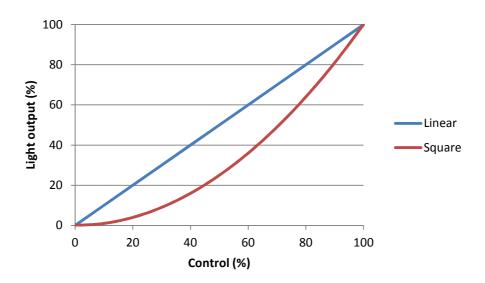
2x times Exit → Light output = 0%

4.1.3 Parameters

• Resolution:

Mode	Resolution
8 bits	255 steps – 1 DMX channel
16 bits	65 535 steps – 2 DMX channels

• Curve: Linear / Square



• Smoothing:

Mode	Smoothing	
Slow	Slow transition between 2 levels – equivalent to 1000W filament	
Fast	Fast Fast transition between 2 levels – equivalent to 600W filament	
Without	Without Deactivated – Very fast transitions	

• Dimming mode (FLICKER MODE):

Mode	Dimming	
PWM	PWM dimming (Pulse With Modulation) – Frequency : 23.8kHz → Accurate dimming	
FREE	Constant current driving	
TIXEE	→ No flicker but less accurate on lower levels – LED switch on at 5% only	
MIXTE	0 → 15% : PWM dimming (Pulse With Modulation) – Frequency : 23.8kHz	
IVIIXIL	15 →100% : Constant current driving	

• Master mode (MASTER CONTROL):

DMX		Local	Light output
8/16bits	Master	Local Light outp	
0 → 100%	100%	0%	0 → 100%
0 → 100%	50%	0%	0 → 50%
0%	100%	0 → 100%	0 → 100%
0%	50%	0 → 100%	0 → 50%
50%	100%	0 → 100%	50 → 100%
30%	80%	0 → 100%	30 → 80%

→ Mode required when simultaneous remote and local control are necessary (example : followspot)

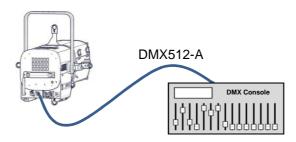
4.2 Strobe

4.2.1 Range



4.2.2 Control

Remotely with DMX512-A protocol



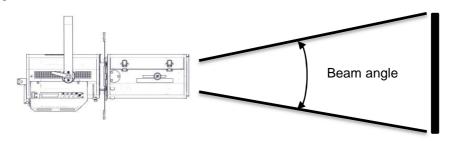
4.2.3 Parameters

Mode	Strobe	
ON	1 DMX channel added to control the function	
OFF	Function not activated	



4.3 Beam size adjustment

4.3.1 Range



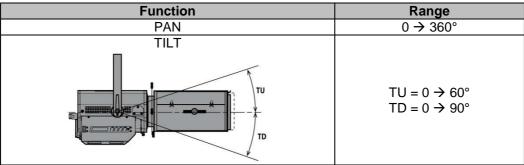
Model	Minimum beam	Maximum beam
643SX / 643CSX	28°	54°
644SX / 644CSX	16°	35°
641SX / 641CSX	11°	26°

4.3.2 Control



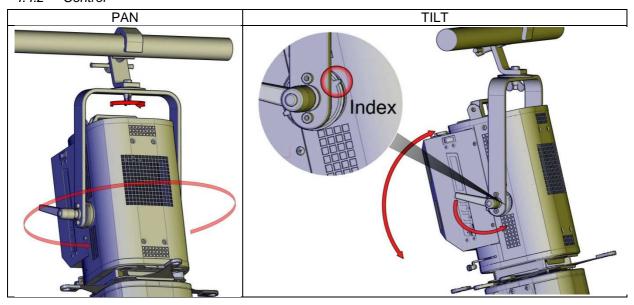
4.4 Orientation

4.4.1 Range



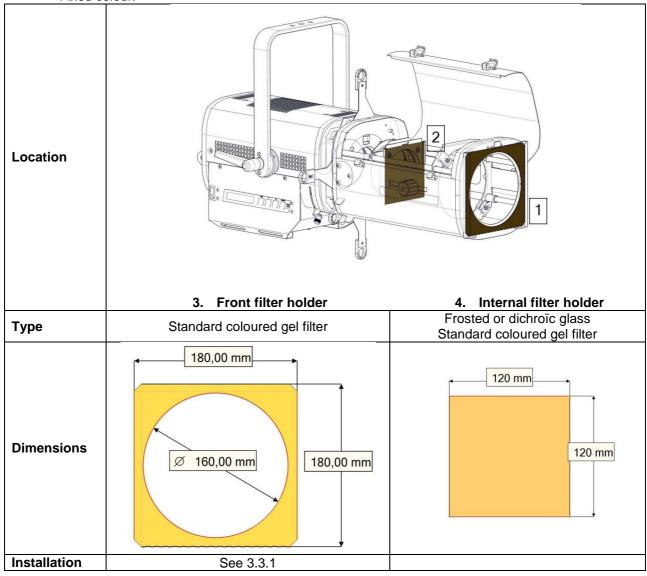


4.4.2 Control



4.5 Colour

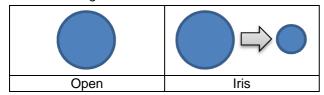
• Fixed colour:

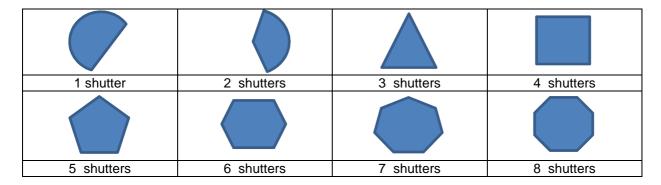




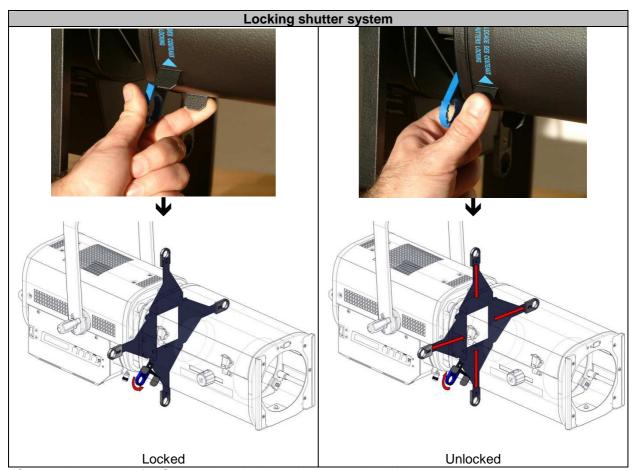
4.6 Beam shaping

4.6.1 Range





4.6.2 Control



See 3.3 Accessories for Gobo, Iris and additional shutters installation

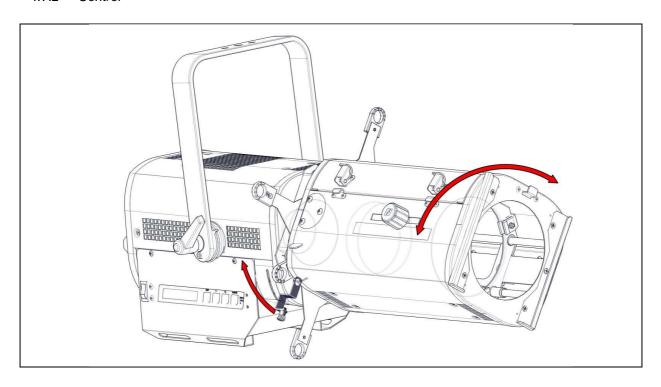


4.7 Beam rotation

4.7.1 Range

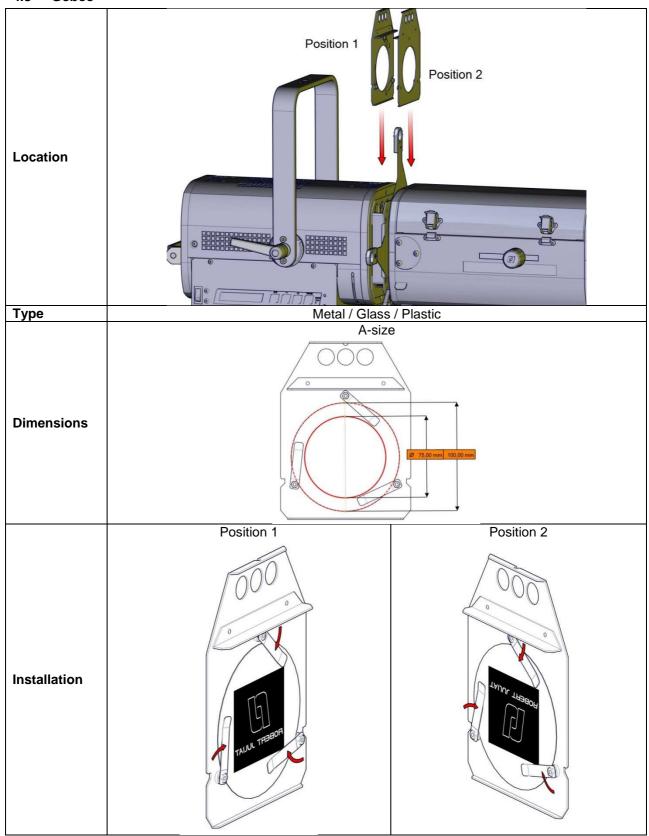
Function	on	Range
Uncompromising quality since 1919		45 45
Gobo	shutters	

4.7.2 Control





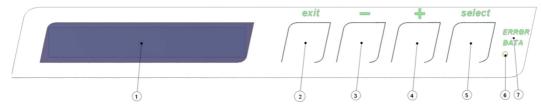
4.8 Gobos





4.9 Control board

4.9.1 Display and Controls



	Function
1	Display
2	Exit the current menu option and/or go back
3	Scrolls through menus and/or Decrease blinking data value
4	Scrolls through menus and/or Increase blinking data value
5	Enter the current menu option and/or valid
6	Hard CPU reset
7	DMX and system LED feedback

DMX address
Data

Data Ch:

Val:

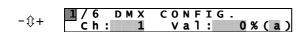
Param. menu

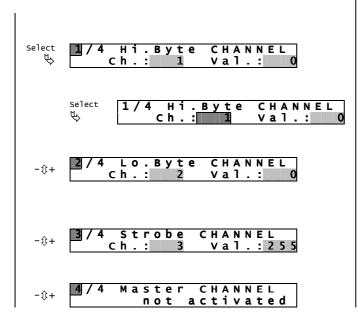
DMX address

Channel 4: Function not activated in Fixture

DMX level

4.9.2 Menus and parameters²





Ch: DMX address Val: DMX level (x): Highest command detected (http mode): a: analog / I: local level d: DMX / !: thermal protection m: local potentiometer / M: master Channel 1: 8 bits dimmer (coarse) Data Ch: DMX address Val: DMX level Parameters (-/+) 1 - 509 DMX address Channel 2: 16 bits dimmer (fine) DMX address Ch: Val: DMX level Channel 3: stroboscope

EN -17-

² With factory settings



- 1 + 2 / 6 LOCAL VALUES Num: 0 % Anal: 0 %

Select 2/6 LOCAL VALUES Num: 0% Anal: 0%

- ŷ+ 3/6 FIXTURE PARAM. aa bb cc dd ee f g h

Select 1/8 RESOLUTION 16 bits Select 4 RESOLUTION 16 bits

-ŷ+ 2/8 LIGHT CURVE linear

Select 2/8 LIGHT CURVE linear

- ⊕+ 3 / 8 SMOOTHING Fast

Select 3/8 SMOOTHING Fast

-û+ 4/8 FLICKER MODE pwm

Select 4/8 FLICKER MODE pwm

- + 5 / 8 STROBE CONTROL

Select 5/8 STROBE CONTROL

-+ 6/8 MASTER CONTROL

Select 6/8 MASTER CONTROL

Local control of light output

Data

Num: Local level from 0 to 100%

Anal: local potentiometer level (option)

Parameters (-/+)

0 - 100 Dimming level from 0 to 100%. Level stored by pressing *select*

Fixture parameters menu

Data	
aa	Resolution: $16 \rightarrow 16$ bits $/8 \rightarrow 8$ bits
bb	Light curve : Ln→ Linear / Sq→Square
CC	Smoothing : Fa→Fast / Sl→Slow / Wo→Without
dd	Flicker mode : Pw→PWM / Fr→Free / Mx→Mixte
ee	Strobe control: St→ON / Dm→OFF
f	Master control : M→ON / _→OFF
g	Analog control : A→ON / _→OFF
h	Maximum setting: R→ ON / →OFF

Choice of dimming resolution

Parameters (-/+)	
8	8 bits dimming (1 DMX channel)
16	16 bits dimming (2 DMX channels)

Choice of dimming curve

Parameters (-/+)		
linear	Linear curve	
square	Square curve	

Choice of smoothing mode

Parameters (-/+)	
fast	Fast transitions
slow	Slow transitions
without	Smoothing desactivated

Choice of dimming mode

Parameters (-/+)	
pwm	PWM dimming
free	constant current driving
mixte	PWM dimming + constant current driving

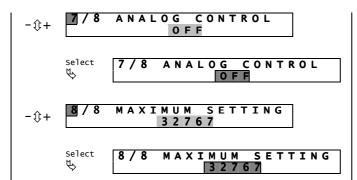
Strobe mode

Parameters (-/+)	
ON	Strobe activated – 1 DMX channel added
OFF	Strobe desactivated

Master mode

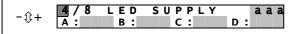
Parameters (-/+)	
OFF	Master desactivated
ON	Master activated – 1 DMX channel added





-û+ 4/6 FIXTURE TOOLS Protocole aaaa bbb

Select	1 / 8 LED COUNTER 00000000H
- \$ +	2 / 8 FIXT. COUNTER 00000000H
- ∅ +	3 / 8 POWER SUPPLY a a a VI: 584 VD: 118 VC: 49







- t+ 7/8 DISPLAY MODE Auto-OFF 30s

Select 7/8 DISPLAY MODE Auto-OFF 30s

Analog control

Parameters (-/+)	
OFF	Analog control deactivated
ON	Analog control activated

Maximum light output level

Parameters (-/+)	
16383 → 32767	Maximum light level from 50
	to 100%

Feedback information

Data	
aaaa	DMX protocol:
	DMX → OK
	NONE→ no DMX detected
	ERROR→ protocol problem
bbb	Quantity of DMX channels detected

LED hour counter

PSU hour counter

Fixture PSU

Data	
aaa	PSU feedback : OK / NOK
VI:	PSU voltage (x10V) 54V < Vi < 61V
VD:	Fan voltage (x10V) 11V < Vd < 13V
VC :	Auxiliary voltage (x10V) 4.5V < Vc < 5.5V

LED PSU

Data	
aaa	LED feedback : OK / NOK
A :	1 st row voltage (x10V)
B:	2 nd row volateg (x10V)
C:	3 rd row volage (x10V)
D:	4 th row volage (x10V))
	3 rd row volage (x10V) 4 th row volage (x10V))

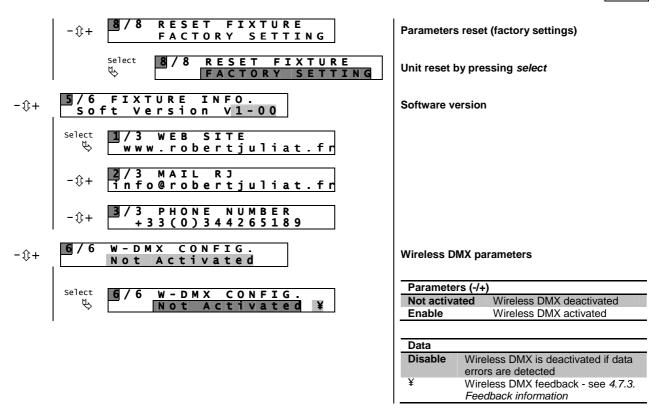
Heat sensor

Data	
aaa	Heat feedback : OK / NOK
CPU:	PCB card temperature (℃) T°< 110℃
LED:	LED module temperature (\mathbb{C}) $5\mathbb{C} < \mathbb{T}^{\circ} < 80\mathbb{C}$

Fan speed Data

Fan feedback : OK / NOK Fan speed rpm (>370 rpm)	
acklighting	
ers (-/+)	
F 30s Off after 30s	
ON Always on	
e	cklighting rs (-/+) 30s Off after 30s





4.9.3 DMX remote control

			8 bits mode) *
	Channel	Value	Percent	Function
Dimmer	1	0 - 255	0 - 100	Course dimming
				* 5

* Resolution=8bits / strobe=OFF

8 bits with strobe mode*				
	Channel	Value	Percent	Function
Dimmer	1	0 - 255	0 - 100	Course dimming
		0	0	Light output = 0% - strobe desactivated
Strobe	2	1 - 254	1 - 99	Strobe : slow → fast
		255	100	Light output = 100% - strobe activated

* Resolution=8bits / strobe=ON

16 bits mode*				
	Channel	Value	Percent	Function
Dimmor	1	0 - 65535	0 - 100	Course dimming
Dimmer	2			Fine dimming

^{*} Resolution=16bits / strobe=OFF

16 bits with strobe mode*					
	Channel Value Percent Function				
Dimmor	1	0 65525	0 100	Course dimming	
Dimmer	2	0 - 65535	0 - 100	Fine dimming	
		0	0	Light output = 0% - strobe desactivated	
Strobe	3	1 - 254	1 - 99	Strobe : slow → fast	
		255	100	Light output = 100% - strobe activated	

^{*} Resolution=16bits / strobe=ON

^{→ 1} DMX channel added when using Master mode



4.9.4 Reset

Reset to default settings:

Menu: 4/6 Fixture tools → 8/8 Reset fixture → select

Hard reset (parameters saved):

Push Hard CPU reset button (6)

4.9.5 Feedback information

- DMX and system LED feedback (7):
 - Green= DMX512 frame detected
 - Red = Problem on DMX512 frame and/or system default details available in 4/6 Fixture Tools menu
- If DMX512 data lost, the following message is displayed:

"Push select to reset DMX values"

The last received DMX values are stored but it is possible to inactivate the current values by pressing the Select key (as well as the Master function) in order to get a total control of the fixture locally. When a DMX signal is detected, the DMX control is active again.

¥ signal indicates a wireless DMX

Signal	Information
Switched off – no symbol	The fixture is not paired with a transmitter
Slow intermittent display	The fixture is paired with a transmitter but the DMX signal is not detected
Continuous display	The fixture is paired with a transmitter and the DMX signal is detected
Rapid intermittent display	Lost connection with the transmitter or in connection with the transmitter

5 Service

5.1 Preventive maintenance

5.1.1 Frequency

General maintenance should be performed at least once a year or more frequently if the equipment is operated in adverse conditions (smoke, heat, humidity, touring, etc.).

5.1.2 General cleaning

Remove dust from the unit (air vents, printed circuit boards, etc.).

During cleaning:



- LED must be protected to avoid dust on it.
- · Fan blades must be locked.

See 5.1.4 LED access for cleaning access to LED and fan

5.1.3 General visual check

- No trace of heat.
- No loose contacts.
- No missing parts.
- Tighten mechanical assemblies (screws, bolts and nuts, ground connections, etc.).



5.1.4 LED access

- Prior to any intervention, power supply disconnection is compulsory. Power connectors are exposed live items.
- The compartment is held by 4 screws.
- The compartment must be put in and out in a vertical position, avoiding contact with the LED module and its power supply connector.
- The braided earth wire must be disconnected.

5.1.5 LED source

• Do not touch the surface of the LED source (no contact with your hands or any tools).

• Do not put compressed air directly on the source.

• Contact a certified RJ distributor in case of residuals or other objects located on the surface of the LED source.

5.1.6 Optics

The cleaning of optical parts (lenses) shall be carried out with solutions containing alcohol.

5.2 Analysis

If there is still a problem after the troubleshooting procedures (see part 6.), contact RJ distributor with the following information:

- Model, version and serial number of the product.
- Software version (available in menu *Tools* → *Ver.*)
- Description of the problem.

5.3 LED reaction according to LED temperature

LED temperature	Fan
5℃ → 65℃	Fan rotation at minimum level
65℃ → 75℃	Fan rotation increases progressively
75℃ → 90℃	Fan at maximum speed LED intensity dims to zero output (overheating protection) DMX and system LED feedback (7) is red and temperature is available in 4/6 Fixture Tools menu

5.4 Thermal protection

In case of thermal protection start 4:

- Remove the LED compartment (See 5.1.4 Dismantling the LED compartment).
- Control possible overheating indications.
- Reassemble the LED compartment.
- Reset the thermal protection by pressing the button.

5.5 Adjusting the maximum light output level

The maximum intensity level of the LED source can be adjusted in the *Fixture Param.* \rightarrow *Maximum setting* menu in order to have a consistent fixture fleet. The dimming level is then recalculated depending on the limitation.

5.6 Exploded view / Spare parts list

→ Available on www.robertjuliat.com



6 Troubleshooting

SYMPTOMS		POSSIBLE REASONS	SOLUTIONS		
Display OFF	Display switches on when button is pressed	Display auto off mode activated	Fixture tools menu → Display mode (see 4.9.2)		
	Display still off when button is pressed	No power	Check:		
System and data display ⑦ switched on in red		Problem with the DMX512 received signal and/or system default – details available in 4/6 Fixture Tools menu	Failure details are available in 4/6 Fixture Tools menu		
The unit cannot controlled via DMX (inactivated wireless DMX)	Data display © switched on in red	DMX protocol problem	Check data signal	The received data	
		Data cabling problem	Check cabling and data connectors The received data protocol can be checked in the		
	Data display ② switched on in green	DMX address	Check the DMX address Fixture tools menu		
		The strobe is active and the channel value is void	The value must be 255 (100%) in order to have the light intensity dimmed		
When using several units, dimming are not synchronized		Different Resolution	All the units must have the same resolution (See 4.9.2 Fixture param. → Resolution)		
		Different smoothing	All the units must have the same smoothing (See 4.9.2 Fixture param menu → Smoothing)		
		Different Dimming curve	All the units must have the same dimming curve (See 4.9.2 Fixture param menu → Light <i>Curve</i>)		
Light switches on when powered on		Manual value is operating when DMX is not connected	Local values must be at zero		
Light switches on when using the control board		Use of the Focus mode	See 4.1.2		
Strobe function doesn't work		Strobe function inactive	Strobe must be activated in Fixture param. menu → Strobe Control		
		Strobe function active	Control channel must be higher than 0		