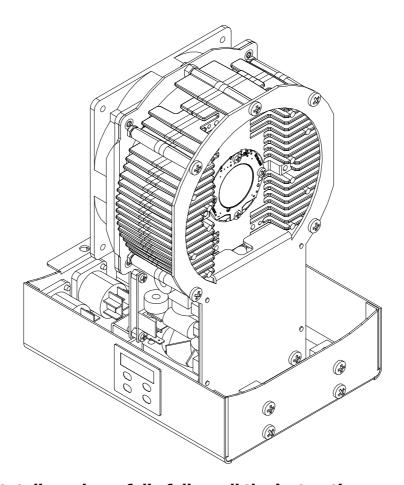
Lites HPLED RJ T Tunable 3000°-5700°

Owner's and service manual



Read this manual totally and carefully follow all the instructions contained. File this manual for future use

It is essential to read all the information contained to ensure correct installation, service and full operation of the HPLED RJ T

All operations must be accomplished, handled and carried out by qualified personnel only.

NOT COMPLYNIG WITH GIVEN NOTICE IT WILL VOID WARRANTY AND WILL FREE THE MANUFACTURER OF ANY KIND OF RESPONSABILITY AND LIABILITY.

Unpacking

Unpack the carton and gently remove HPLED RJ T from the box. Ensure HPLED RJ T is received in all its parts. In the event the HPLED RJ T shows any damage, do not use it and contact immediately your transporter as well as your seller.

Items in the carton consist of:

- -N. 1 HPLED RJ T unit
- -N. 1 Free neutrik power-con connector (blue)
- -N. 2 M5x45 screws
- -N. 2 Ø 5 mm washers
- -N. 2 M6 nuts

Installation, utilisation and service ownerr's manual.



General Information and recommendation to operate the unit in good and safe conditions.

Follow instructions with care and attention:

HPLED RJ T must be used and housed exclusively and solely for the Robert Juliat unit as listed in the A table shown below.

When ordering HPLED RJ T please always specify the equipment code n that needs the upgrading.

Lamp	Juliat Profile model		
HAL 1000/1200W	611SX	613SX	614SX
CDM-T 150W	441SX	443SX	444SX
CDM-T 250W	451SX	453SX	454SX
HID 575W	421SX	423SX	424SX
HID 700W	411SX	413SX	414SX
Lamp	Juliat	Profile mo	del
HAL 1000/1200W	611S	613S	614S
	HAL 1000/1200W CDM-T 150W CDM-T 250W HID 575W HID 700W	HAL 1000/1200W 611SX CDM-T 150W 441SX CDM-T 250W 451SX HID 575W 421SX HID 700W 411SX Lamp Juliat	HAL 1000/1200W 611SX 613SX CDM-T 150W 441SX 443SX CDM-T 250W 451SX 453SX HID 575W 421SX 423SX HID 700W 411SX 413SX Lamp Juliat Profile mo

Model	Lamp	Jiuliat Followspot code
Cricket	HAL 1000/1200W	1116
Buxie	HID 575W	1124
Foxie	HID 700W	1114

HPLED RJ T unit must NEVER be used stand-alone; ; HPLED RJ C6 unit must be HOUSED and used only in one of the above listed Juliat models.

HPLED RJ T fixture is only meant for professional use. NEVER use it for domestic or other improper use.

Minimum distance from any flammable source is of 0.25m.

Minimum throw distance from illuminated surface: 0.5m.

Installation of the unit(s), (prior to installation, HPLEDRJ T unit must be housed in one of Juliat fixture as listed in the above table) including external profile body, must be secured with adequate clamps, safety cords, nuts and bolts to bear at least 4 times the weight of the whole unit(s).

Always Power HPLED RJ T to safety circuit breakers.

Install HPLED RJ T in ventilated ambient which temperature must not exceed 35°C

HPLED RJ T is NOT for domestic use, HPLED RJ T can only be used for professional applications.

When HPLED RJ C6 unit is operated, some outer parts of the profile can reach temperatures of up to 60C°

HPLED RJ T must be fitted with protection shields (Lenses)

On no account, directly or indirectly, LED must be touched as it may impair its use.

An Essential and Periodically throughout cleaning of the HPLED RJ is recommended. This practice avoids that layers of dust and other impurity jeopardise and reduce the correct operation of the unit. Lenses must be cleaned to remove layers of dust that may impede and or reduce the passage of the light through the lenses. The correct and periodically maintenance keeps also fans and vents clean thus keeping the HPLED RJ T in its best performance conditions. Never touch, directly or indirectly, the Yellow core of the LED nor use solvents that can damage the LED irremediably. Protection shields if battered/worn, must be replaced with new ones (Lenses)



Warning from electric shocks

All operations must be accomplished, handled and carried out by qualified personnel only

Warning High voltage hazard, always disconnect Power before any handling and any servicing of HPLED RJ T

Do not and never handle HPLED RJ T with humid/wet hands or near to any water or any kind of moisture sources

Always connect HPLED RJ T to mains fitted with safety device switch that cuts power off in case of danger

The HPLED RJ T does NOT and CAN NOT be operated via Phase control dimmer nor connected/operated in NON-DiM mode

HPLED RJ T is rated Class I

Earth connection is mandatory!

CE Approvals

The HPLED RJ T products to which this manual refers to, complies with European directive pursuant to:

2014/35/EU safety of electrical equipment supplied at low voltage (LVD)

2014/30/EU Electromagnetic compatibility (EMC)

2011/65/EU Restriction of the use of certain hazardous substances (RoHS)

WARRANTY!

A 24-month warranty is granted on the HPLED RJ T from purchase's date. Warranty covers fabrication defects only. Warranty is immediately voided if the HPLED RJ T has been handled by unqualified personnel. Any improper and unauthorised use, such modification(s) or misapplication of the HPLED RJ T will also void the warranty of the product(s). Silver colour label showing technical data and serial number, if removed or if data are impaired to render details illegible, it will immediately void the warranty

Technical specifications

Power Supply 100-240 V~ 50/60Hz
Maximum power consumption 170W
Stand-by power consumption 3W
Minimum ambient temperature -10°C
Maximum ambient temperature 35°C
LED Colour Temperature: 3000°K - 5700°K
LED CRI 96 (3000°K) and 94 (5700°K)
LED Life (see Manufacturers ' specifications)

Weight: 2,4 Kg

IP rating: To be housed into original Profile Robert Jiuliat 600 SX series luminaire

Working position: Any

Power connectors: IN & OUT Neutrik PowerCon

Data connectors: IN & OUT XRL5
Data protocols: DMX 512; RDM ready
User interface: 4-digit display and 2 buttons

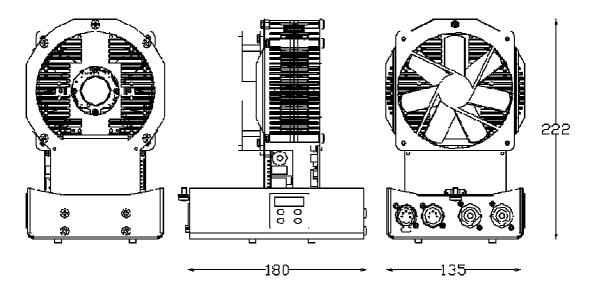
Manual operation: Users must operate via buttons provided on the display

Fan control: Fan speed adjustment

Control of LED frequency: Selection of LED frequency refresh 2 Dimming curves control: Selection of four dimming curves control

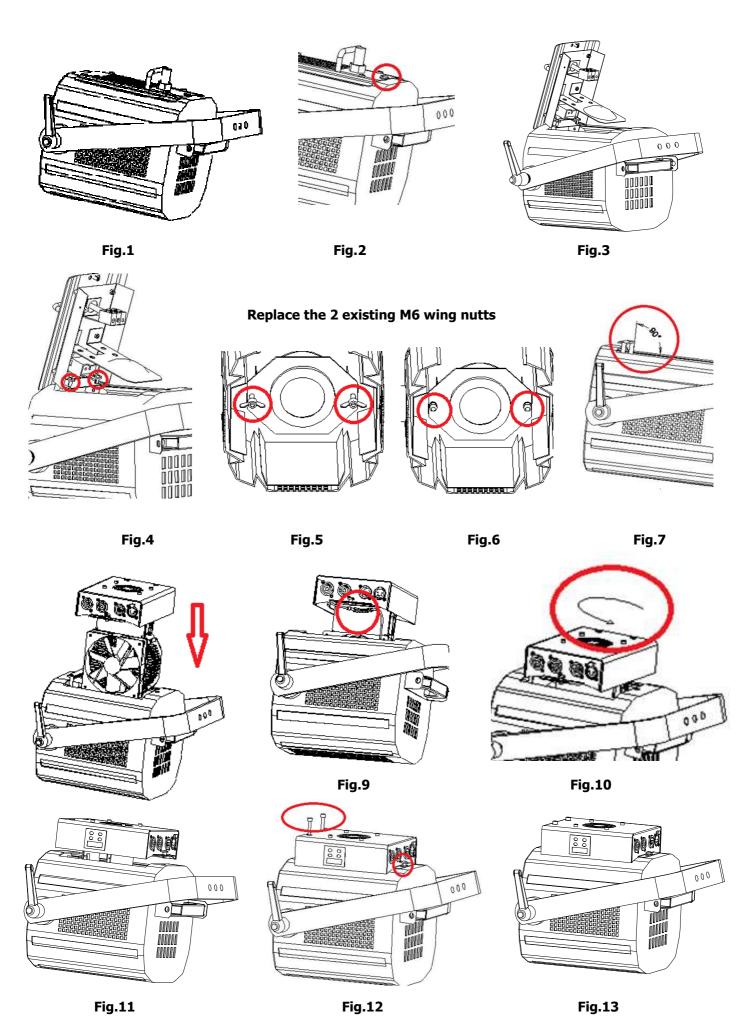
Compliant: CE

Dimensions (see picture):



Ensure to totally disconnect HPLED RJ T, housed in Robert Juliat fixture, from mains/electric source while installations and other servicies are being handled and/or carried out

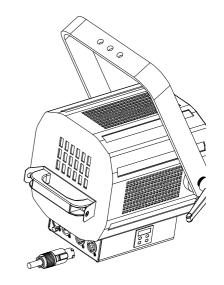
The HPLED RJT fixture has been designed to replace incandescent and or discharge bulbs utilized in Robert Juliat items (please refer to the TABLE A located at pag.2 to view Juliat compatible fixture models) When orders are placed with Lites, it is essential that customer clearly states the Juliat model code and item name that needs to be used to house HPLED RJ T unit in. Place the Juliat fixture on a robust and firm flat even base and ensure that lamp-access door is facing up (view fig.1). Open lamp-access door by turning a quarter-turn screw based at the rear section, carry out this task with the use of a screwdriver (view fig.2). Disconnect ground-wire from lamp access-door. With the use of a screwdriver, loosen the 2 M5 screws used to join lamp access-door to the U latch of the projector (see fig.4). Remove lamp-access door and replace the 2 existing wing-nut with 2 M6 nut including the 6mm star-washer (view fig. 5-6). Place the latch perpendicular to the body of the projector (view fig.7). House the HPLED RJ unit into the rear section of the projector. **There** is only one method to house HPLED RJ T unit into the projector as shown in the illustration (see fig.8). Connect the ground-wire of the projector to the ground-wire "faston terminal" of the HPLED RJ T unit. Gently rotate the HPLED RJ T to ensure that both power-con connectors and DMX connectors are facing the rear of the projector (view fig.10). Place the HPLED RJT unit and ensure that the 2 mounting holes are matching the U-shape latch, ensure also that the quarter-turn screw is also matching the hole of the projector. Use the 4 mm Allen-key to tighten the 2 M5x45 mm screws and its 5 mm star-washer to the Ushape latch. Tighten now the quarter-turn screw as shown in the sketch (see fig.12-13).



Connection to mains

WARNING! Installation(s) must be accomplished, handled and carried out by qualified personnel only and must comply with all norms in force in the installation's country

HPLED RJ T is supplied with a free-Blue Neutrik PowerCon plug that must be wired using a 3x1.5mm² lead which additional specifications include: Operating Voltage: 300/500V, Test Voltage: 2KV, Operating Temperature: -10°C / +35°C.Connect blue wire to N terminal, brown wire to L terminal and Yellow/Green wire to earth terminal. Ensure the use of safety circuit breaker at all times. Daisy chain of up to 10 units is permitted when connected to 230VAC. Daisy chain of up to 5 units is permitted when connected to 110VAC. Maximum daisy chain length: 20m.



Collegamento

poli

1

2

3

4

5

connettore XLR5

descrizione

GND

DMX-

DMX+

NC

NC

WARNING: NEVER CONNECT HPLED RJ T ENGINE TO ANGLE PHASE **DIMMER PACK NOR TO NON-DIM MODE**

Signal control connection

HPLED RJ T can be operated via either DMX512A and or RDM ready Protocols. For Daisy chain DMX line use a-2 lead wire plus shield.

Important note: when DMX is available a red dot will illuminate on the right hand of the display. When red dot is off no DMX signal is available.

RDM – Remote Device Management

RDM Controller allows for remote standard operations. RDM default options include: Discovery mode: RDM is engaged when controller incepts this mode, the device reports itself by giving a flash of light (Controller sets the device in a listing to read: settings, DMX address, personality settings, (Read all DMX mode including all DMX channels above) ON/OFF "Identify": This mode is used to identify the manufacturer's device (Lites srl). It gives a flash of light from the LED. Model information (HPLED RJ-T)

Software version information (HPLEDII –T v.x.xx)

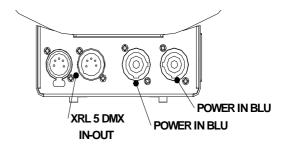
Mode to reveal temperatures of the LED and of the driver

Mode to reveal hour-meters of the LED and of the device

Power HPLED RJ T ON

WARNING! Before powering HPLED RJ T ensure that all installation(s) procedure(s) have(s) been properly set and accomplished.

When HPLED RJ T is powered the setup display will show the software release version. The UP, DOWN, ENTER and ESC buttons will allow for the operations of HPLED RJ T menu. UP and DOWN buttons allow to browse through menu options, the ENTER button is to confirm selection. The ESC button is to return to the previous menu or to guit previous setting(s).



Menu items

Picha items				
Displayed Message	Allowed or displayed values	Function		
Addr	001512	Set Up DMX Address		
	3000	Preset 1 White 3000°k	Values between 3000 through 5700 allow for	
	3100	Preset 2 White 3100°k	fixed white set-up without DMX 512 protocol	
	3200	Preset 3 White 3200°k	signal. When fixture is turned, the last	
	3400	Preset 4 White 3400°k	selected preset will be held. By pressing the	
	3600	Preset 5 White 3600°k	Enter button, "U" appears on the display and	
Auto	4000	Preset 6 White 4000°k	using the UP and Down buttons you can	
(Automatic mode)	4400	Preset 7 White 4400°k	adjust the white tone. By pressing the ENTER	
	4900	Preset 8 White 4900°k	key, the message D will appear and by using	
	5300	Preset 9 White 5300°k	the UP and Down keys it will be possible to	
	5500	Preset 10 White 5500°k	adjust the output brightness from 0 to 255.	
	5600	Preset 11 White 5600°k	Once the preset has been modified, the dot at	
	5700	Preset 12 White 5700°k	the bottom right of the display will flash.	

	Pr01 Pr02	Program 1: auto Program 2 : auto	Automatic mode without DMX 512 Protocol signal. Program selections run between Pr01 through Pr 02 Both programs can be modified. To change program select Enter then view (Scn0Scn9; max scenes of each program). Clicking on enter once more it shows P.00.0 (time) followed by F.00.0 (speed) and ultimately the last view shows 1c.01 though c12 (colour to be assigned to each scene) The use of UP/Down keys allow	
		The Master Mode uses the same s	for setting values. When selections are completed press enter to confirm settings as the Auto Menu. The only exception	
MaSL	Master Mode	is that when all fixtures are conne the same presets and or the sa	ected to DMX 001 in daisy-chain, they perform ame presets selected on the Master fixture. In many exception are present selected on the Master fixture.	
	2 ch	3000/5700 °K		
Mode	2 ch (D)	3000/5700°K -dimmer (default)	Dmy mode (view poyt page)	
Mode	3 ch	3000/5700°k-dimmer- strobo	Dmx mode (view next page)	
	4 ch	3000/5700°k-dimmer16(bit) strobe		
drUt	℃	Shows drive	r operating temperature	
LEdt	°C	Shows leds	operating temperature	
PUM	0100%	Shows curren	t led power (0-100%)	
SMOO	FAST MED SLOW	DMX data Speed adjustment		
		Dimme	er profile selection:	
GAMM	LInE	- LinE for linear dimming regulation		
	qUAd	- qUAd for tungsten lamp emulation		
FREQ	1K 2K 3K 4K 5K 6K 7K 8K 9K 10K	LED operation frequence		
booS	Off	When OFF, LED max flux: 90%		
FAn	on Aut MEDH MEDL LOW	When ON, LED max flux: 100% 4 fan operating modes i.e atuomatic, medium fast, medium slow, slow speed. Fan speed adjujstments (fan-sound) reflect on self-correct output LED brightness and other factors as room-temperature, number of engaged channels		
PoS	AA VV	Display orientation selection: AA = normal VV = inverted		
StbY	Off on	Standby display activity: off = display always switched on = display switched off after few seconds of ttons inactivity (only the right side dot will be lighted to indicate DMX availability)		
dEF	Off on	ON Will restore the default factory values		
SoFt		Shows Software version		
	·			

DMX Operating Modes (Mode)

Selecting 1 of the 4 available modes it enables the number of channels required, and its relevant modes, needed to operate HPLED RJ T.

mode U2 ch white

Ch	Function	dmx levels	
1	3000°k White	0255	From 0 to max 255
2	5700°k White	0255	From 0 to max 255

mode 2 ch (default)

Ch	Function	dmx levels	
1	3000°k-5700°k	0255	When set to level 0 = 3000°k – When set to level
			255 = to 5700°k
2	dimmer	0255	From 0 to max 255

mode 3 ch dimmer

Ch	Function	dmx levels	
1	3000°k-5700°k	0255	When set to level 0 = 3000°k – When set to level
			255 = to 5700°k
2	dimmer	0255	From 0 to max 255
3	shutter	0-15	Strobe disengaged
		16255	Strobe from slow (16) to fast (255)

mode 4 ch dimmer 16 bit

Ch	Function	dmx levels	
1	3000°k-5700°k	0255	When set to level 0 = 3000°k – When set to level
			255 = to 5700°k
2	dimmer	0255	From 0 to max 255
3	Dimmer fine	0255	From 0 to max 255
4	shutter	0-15	Strobe disengaged

Error messages

In case of malfunction, the following messages can be shown:

Led sensor error: the sensor on the led is faulty.

Overtemperature LED: the temperature on the LED exceeds the allowed limit, check if the fan is working.

Micro overtemperature: the temperature on the driver board exceeds the allowed limits, check if the fan is working.

Micro sensor error: the sensor on the driver board is faulty.

If these malfunctions occur, the LED turns off.

Avoid using the HPLED RJ T and promptly contact any authorized service centre.

Periodical maintenance

To ensure the correct HPLED RJ T operation, we suggest the following periodical maintenance operations: Remove dust or any kind of other dirt from the fans and loop-holes, this operation ensures the correct air flow Remove dust from lenses using a clean cloth. This will ensure the maximum light efficiency Replace damaged protection screen and lenses when necessary.

Do not touch nor clean the LEDs nor the sourranded area with solvent

Device disposal information

At the end of its life, HPLED RJ T must be disposed to an appropriate electrical and electronic equipment waste collection centre. Eco-friendly disposal, helps to avoid possible negative impact on the environment and human health and promotes the reuse and/or recycling of the materials making up the product. Illegal disposal involves administrative sanctions provided by laws enacted.



Note

Manufacture declines any sort of personal/corporate responsibility/liability for damages caused by people that are not scrupulously following indications given in this manual as for the inadequacy or for misuse of the product they do, as well as if the product has been handled by unqualified personnel. Not complying with security norms/periodical maintenance and all information contained and as expressed in the owner's/service manual will also totally free personal/corporate responsibility/liability.Text, wordings, drawings, specifications, modifications and other changes of this manual may apply anytime without notice. The specifications are not binding.