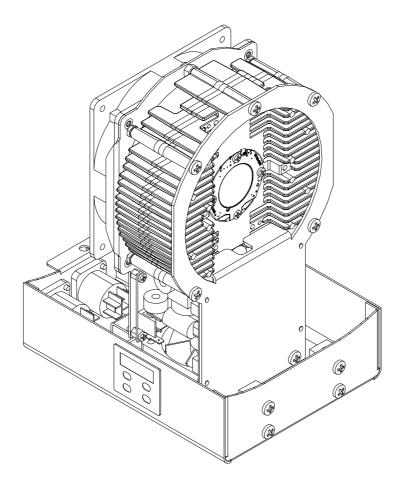
Lites HPLED RJ C6 Colour RGBACL

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

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 C6 from the box. Ensure HPLED RJ C6 is received in all its parts. In the event the HPLED RJ C6 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 C6 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 C6 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 C6 please always specify the equipment code n that needs the upgrading.

Model	Lamp	Julia	at Profile m	odel	
600SX	HAL 1000/1200W	611SX	613SX	614SX	
Figaro	CDM-T 150W	441SX	443SX	444SX	
Figaro	CDM-T 250W	451SX	453SX	454SX	
Quincy	HID 575W	421SX	423SX	424SX	
Pierrot	HID 700W	411SX	413SX	414SX	
,					
Model	Lamp	Juliat	Profile mo	del	
600S	HAL 1000/1200W	611S	613S	614S	

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

HPLED RJ C6 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 C6 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 C6 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 C6 to safety circuit breakers.

Install HPLED RJ C6 in ventilated ambient which temperature must not exceed 35°C

HPLED RJ C6 is NOT for domestic use, HPLED RJ C6 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 C6 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 C6 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 C6

Do not and never handle HPLED RJ C6 with humid/wet hands or near to any water or any kind of moisture sources Always connect HPLED RJ C6 to mains fitted with safety device switch that cuts power off in case of danger

The HPLED RJ C6 does NOT and CAN NOT be operated via Phase control dimmer nor connected/operated in NON-DiM <u>mode</u>

HPLED RJ C6 is rated Class I

Earth connection is mandatory!

CE Approvals

The HPLED RJ C6 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 C6 from purchase's date. Warranty covers fabrication defects only. Warranty is immediately voided if the HPLED RJ C6 has been handled by unqualified personnel. Any improper and unauthorised use, such modification(s) or misapplication of the HPLED RJ C6 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 175W Stand-by power consumption 3W Minimum ambient temperature -10°C Maximum ambient temperature 35°C

LED Colour RGBACL: Red; green; blue; amber; cyan; lime

30 colored presets

10 white presets from 2,300°K to 10,000°K

LED CRI: Minimun CRI: 93> and 98>(depending on the selected white)

10 white presets from 2,300 ° K to 10,000 ° k LED Life (see Manufacturers 'specifications)

Weight: 2,49 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 4 buttons

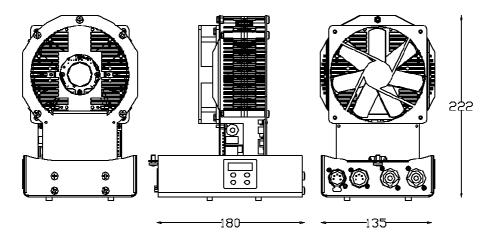
Manual operation: Users must operate via buttons provided on the display

Fan control: Fan speed adjustment

Control of LED frequency: Selection of LED frequency refresh 4 Dimming curves control: Selection of four dimming curves control

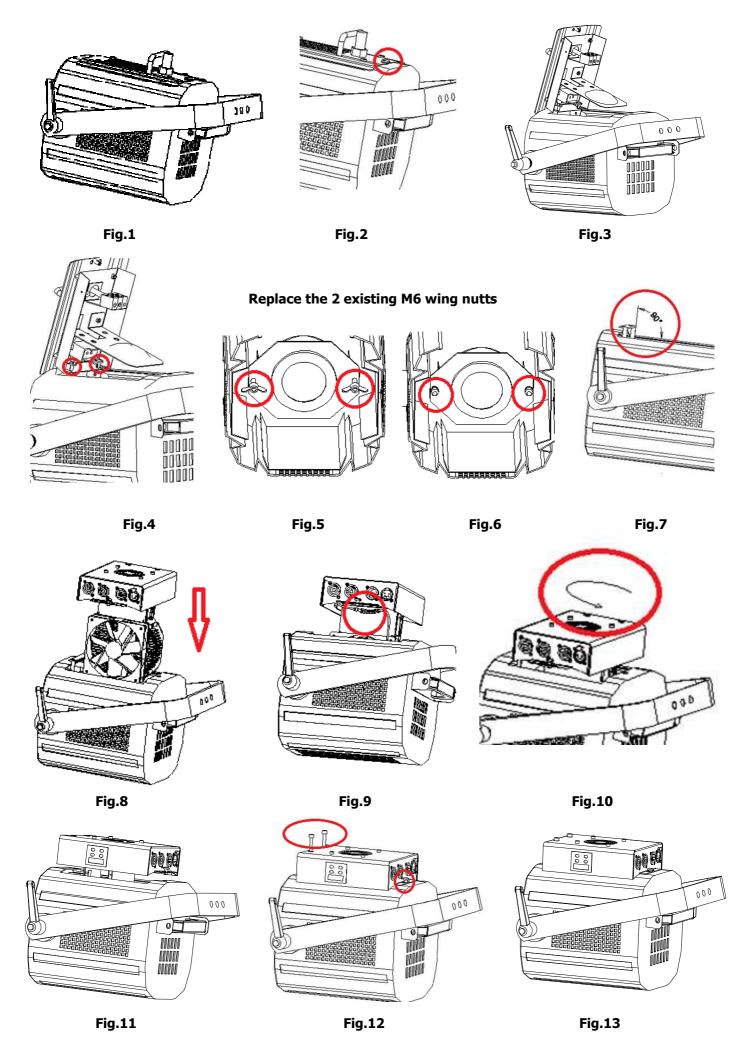
Compliant: **C** €

Dimensions (see picture):



Ensure to totally disconnect HPLED RJ C6, housed in Robert Juliat fixture, from mains/electric source while installations and other servicies are being handled and/or carried out

The HPLED RJ C6 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 C6 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 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 C6 unit**. Gently rotate the HPLED RJ C6 to ensure that both power-con connectors and DMX connectors are facing the rear of the projector (view fig.10). Place the HPLED RJ C6 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 C6 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.



Signal control connection

HPLED RJ C6 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.

R	D	М —	Remote	Device	Management
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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-C6)

Software version information (HPLEDII -C6 v.x.xx)

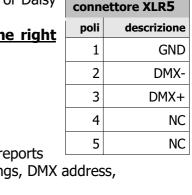
Mode to reveal temperatures of the LED and of the driver

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

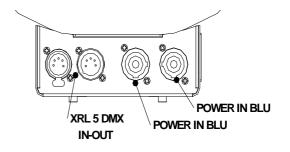
Power HPLED RJ C6 ON

WARNING! Before powering HPLED RJ C6 ensure that all installation(s) procedure(s) have(s) been properly set and accomplished.

When HPLED RJ C6 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 C6 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 quit previous setting(s).



Collegamento



Displayed Message	Allowed or displayed values	Function		
Addr	001512	Set	Jp DMX Address	
Auto (Automatic mode)	co01 co02 co03 co04 co05 co06 co07 co08 co09 co10 co11 co12 co13 co14 co15 co16 co17 co18 co19 co20 co21 co22 co23 co24 co25 co26 co27 co28 co29 co30 co31 co32 co31 co32 co33 co34 co35 co36 co37 co38 co39 co40	Preset 1 red Preset 2 light red Preset 3 orange Preset 4 medium amber Preset 5 amber Preset 6 straw tint Preset 7 pale yellow Preset 8 spring yellow Preset 9 yellow Preset 10 lemon yellow Preset 11 lime Preset 12 lime green Preset 13 green Preset 14 moss green Preset 15 light cyan Preset 16 cyan Preset 17 peacock blue Preset 18 summer blue Preset 19 bright blue Preset 20 light steel blue Preset 21 light blue Preset 22 slate blue Preset 23 blue Preset 24 deep lavender Preset 25 lavender Preset 26 magenta Preset 27 rose pink Preset 28 dark pink Preset 29 bright pink Preset 30 Rainbow Preset 31 white 2300°k Preset 32 white 2700°k Preset 33 white 3200°k Preset 34 white 4000°k Preset 35 white 5600°k Preset 37 white 5600°k Preset 38 white 5600°k Preset 39 white 7000°k Preset 39 white 9000°k	It's possible to select 30 colored presets and 10 fixed white presets, without the aid of the DMX 512 signal. By selecting the value indicated from co01 to co40 you choose the combined color. When you turn off the projector the selected preset will be saved. In each preset you can change the output color level. Select the preset that needs to be to be changed. If you press once the Enter button, the display will show r (red) with the set value, then if you keep pressing Enter, G (green), b (blue), A (amber), c (cyan), L (lime), S (strobe), n (Rainbow), d (dimmer) will be displayed one by one. Use the Up and Down button to adjust the level of the 6 colors + the 3 functions n (raiwbow), S (strobe), d (dimmer), pressing them one by one from 0 to 255, to determine the output color. Always confirm with Enter to save the settings.	
	Pr01 Pr02 Pr03 Pr04	Program 1: auto Program 2: auto Program 3: auto Program 4: auto	through Pr 04. Both programs can be modified. To change program select Enter then view (Scn0Scn6; 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 c40 (colour to be assigned to each scene) The use of UP/Down keys allow for setting values. When selections are completed press enter to confirm.	

		The Master Made uses the same	e settings as the Auto Menu. The	
MASL	Master Mode	only exception is that when all fixtures are connected to DMX 001 in daisy-chain, they perform the same presets and or the same presets selected on the Master fixture. The slave projectors must be set in 9ch mode.		
	12 ch (D)	RGBACL 12 ch (default)		
	2 ch	2 ch		
	16 ch	RGBACL 16 ch (16 bit)		
ModE	6 ch	RGBACL 6 ch	Dmx mode (view next page)	
	RGB	RGB 6 ch	Billy mode (view next page)	
	HSI	Stubio HSI 6 ch		
	9ch	9 ch		
drUt	℃		rating temperature	
LEdt	℃		ating temperature	
PUM	0100%	Shows leds opera	<u> </u>	
FON	FAST	Shows current lea	50Wei (0 10070)	
SMoo	MED	DMX data Speed	d adjustment	
31100	SLOW	DIAN data Speed	a adjustifierit	
	SLOW	qUAd qUAd2	ScUr LinE	
GAMM	qUAd SCUr qUAd2 LInE	QOAU QOAU QOAU QOAU SCOT LINE OF LOAD		
		Dimming cur	ves available	
FrEq	1K 2K 3K 4K 5K 6K 7K 8K 9K 10K	LED operation frequence		
booS	Off on) max flux : 90% max flux : 100%	
FAn	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		
	ΛΛ	Display orienta	ation selection:	
PoS	AA VV	1	normal	
	V V	VV = inv	rerted	
StbY	Off on	off = display always switched o seconds of buttons inactivity (onl to indicate DN	play activity: n = display switched off after few ly the right side dot will be lighted MX availability)	
dEF	SUrE		default factory values	
SoFt		Shows Software version		

DMX Operating Modes (Mode)

Selecting 1 of the 7 available modes it enables the number of channels required, and its relevant modes, needed to operate HPLED RJ C6

	GBACL (default)	1	
Ch	Function		Dmx levels
1	red	0255	From 0 to max 255
2	green	0255	From 0 to max 255
3	blue	0255	From 0 to max 255
4	amber	0255	From 0 to max 255
5	cyan	0255	From 0 to max 255
6	lime	0255	From 0 to max 255
_		015	Strobo disingaged
7	strobe	16255	Strobo from slow (16) to fast (255)
	Rainbow	015	Rainbow disingaged
8	Kaliibow	16255	Rainbow from slow (16) to fast (255)
9	dimmer	0255	From 0 to max 255
		015	Deserted whites
		1617	2300°k cri 93
		1838	from 2300°k to 2700°k
		3940	2700°k cri 97
		4161	from 2700°k to 3200°k
		6263 6484	3200°k cri 98 from 3200°k to 4000°k
		8586	4000°k cri 95
10		87107	from 4000°k to 5600°k
(priority on	White selection	108109	5600°k cri 98
channel 11)	Write Selection	110130	from 5600°k to 6500°k
		131132	6500°k cri 95
		133153	from 6500°k to 7000°k
		154155	7000°k cri 93
		156176	from 7000°k to 8000°k
		177178	8000°k cri 96
		179199	from 8000°k to 9000°k
		200201	9000°k cri 93
		202222	from 9000°k to 10000°k
	3200 ° k halogen lamp operation	223225	10000°k cri 95
	3200 K Haloger lamp operation	226255	halogen lamp dimming simulation
		015	No color
		1623 2431	red light red
		3239	
		4047	orange medium amber
		4855	amber
		5663	straw tint
		6471	pale yellow
		7279	spring yellow
		8087	yellow
		8895	lemon yellow
		96103	lime
	Calan aalaatian	104111	lime green
11	Color selection	112119	green
		120127	moss green
		128135 136143	light cyan
		144152	cyan peacock blue
		153159	summer blue
		160167	bright blue
		168175	light steel blue
		176183	light blue
		184191	slate blue
		192199	blue
		200207	deep lavender
		208215	lavender
		216223	magenta
		224231	rose pink
		232239	dark pink
		240247 248255	bright pink FULL RGBACL
		025	Auto speed or set from menu
12	Fan speed	26255	Fan speed from slow to fast
<u> </u>	<u> </u>	20.,233	i an specu nom siow to last

mode 2 ch

1		T	0.45	NI I
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S155 Spring yellow			4145	straw tint
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Color selection				
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Telephone				
S185 moss green				_
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201205 white 8000°k 206210 white 9000°k			191195	white 6500°k
206210 white 9000°k			196200	white 7000°k
			201205	white 8000°k
211215 white 10000°k			206210	white 9000°k
			211215	white 10000°k
Rainbow from slow (191) to fast(229)		B		
Rainbow 216225 Sequence rainbow R-G-B-A-C-L		Rainbow	216225	
3200 ° k halogen lamp		3200 ° k halogen lamp	226 255	•
operation 226255 Halogen lamp diffining simulation		operation		·
2 dimmer 0255 From 0 to max 255	2	dimmer	0255	From 0 to max 255

mode 16 ch RGBACL 16 bit

Ch	Function	dmx levels		
1	red	0255	From 0 to max 255	
2	Red fine	0255	Red fine tune adjustment	
3	green	0255	From 0 to max 255	
4	Green fine	0255	Green fine tune adjustment	
5	blue	0255	From 0 to max 255	
6	Blue fine	0255	Blue fine tune adjustment	
7	amber	0255	From 0 to max 255	
8	amber fine	0255	amber fine tune adjustment	
9	cyan	0255	From 0 to max 255	
10	cyan fine	0255	cyan fine tune adjustment	
11	lime	0255	From 0 to max 255	
12	lime fine	0255	lime fine tune adjustment	
		015	Strobe disingaged	
13	strobe	16255	Strobo from slow (16) to fast (255)	
14	dimmer	0255	From 0 to max 255	
15	Dimmer fine	0255	Adjustment of global fine light intensity	
16	Fan speed	025	Auto speed or set from menu	
10	i aii speed	26255	Fan speed from slow to fast	

mode 6. ch RGBACL

Ch	Function		dmx levels
1	red	0255	From 0 to max 255
2	green	0255	From 0 to max 255
3	blue	0255	From 0 to max 255
4	amber	0255	From 0 to max 255
5	cyan	0255	From 0 to max 255
6	lime	0255	From 0 to max 255

mode 6.RGB 6 ch

1	Red	0255	From 0 to max 255
2	Green	0255	From 0 to max 255
3	Blue	0255	From 0 to max 255
4	Dimmer	0255	From 0 to max 255
F	strobe	015	Strobe disingaged
5	strobe	16255	Strobo from slow (16) to fast (255)
		024	Auto speed or set from menu
6	Fan speed	25255	Fan speed from slow to fast

mode 9 ch

Ch	Function		dmx levels
1	red	0255	From 0 to max 255
2	green	0255	From 0 to max 255
3	blue	0255	From 0 to max 255
4	amber	0255	From 0 to max 255
5	cyan	0255	From 0 to max 255
6	lime	0255	From 0 to max 255
7	strobe	015	Strobo disingaged
/	Sciobe	16255	Strobo from slow (16) to fast (255)
0	Rainbow	015	Rainbow disingaged
8		16255	Rainbow from slow (16) to fast (255)
9	dimmer	0255	From 0 to max 255

mode 6.HSI STUDIO 6 ch

		1	T
1	Hue	0255	Hue selection, following levels R, R+L, R+G+L, G+L,G, G+C,G+B+C, B+C, B B+A, R+B+A, R+A, R
2	Saturation	0255	Color saturation with set color in the Hue channel
3	Dimmer	0255	From 0 to max 255
4	strobo	015	Strobe disingaged
4	Strobo	16255	Strobo from slow (16) to fast (255)
		015	Whites off
		1618	2300°k cri 93
		1941	from 2300°k to 2700°k
		4244	2700°k cri 97
		4567	from 2700°k to 3200°k
		6870	3200°k cri 98
		7193	from 3200°k to 4000°k
		9496	4000°k cri 95
_		97119	from 4000°k to 5600°k
5	Selection	120122	5600°k cri 98
(priority on channel 1)	whites	123145	from 5600°k to 6500°k
Channel 1)		146148	6500°k cri 95
		149171	from 6500°k to 7000°k
		172174	7000°k cri 93
		175197	from 7000°k to 8000°k
		198200	8000°k cri 96
		201223	from 8000°k to 9000°k
		224226	9000°k cri 93
		227249	from 9000°k to 10000°k
		250255	10000°k cri 95
_		024	Auto speed or set from menu
6	Fan speed	25255	Fan speed from slow to fast
	•		•

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 C6 and promptly contact any authorized service centre.

Periodical maintenance

To ensure the correct HPLED RJ C6 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 C6 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.

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