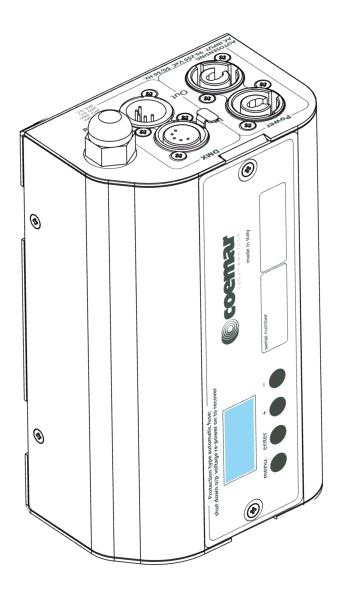
ReLite Led Kit VariWhite



* ReLite Led Kit 150 version



ReLite Led Kit VariWhite

Serial Number:	
Purchase date:	
Dealer:	
Address:	
Suburb:	
Country:	
Phone / Fax:	

Please note in the space provided above the relative service information of the model and the retailer from whom you purchased your **ReLite Led Kit**: this information will assist us in providing spare parts, repairs or in answering any technical enquiries with the utmost speed and accuracy.

WARNING: the security of the fixture is granted only if these instructions are strictly followed; therefore it is absolutely necessary to keep this manual.

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Congratulations on having purchased a **Coemar** product. You have assured yourself of a fixture of the highest quality, both in componentry and in the technology used. We renew our invitation to you to complete the service information on the previous page, to expedite any request for service information or spares (in case of problems encountered either during, or subsequent to, installation). This information will assist in providing prompt and accurate advice from your **Coemar** service centre. Following the instructions and procedures outlined in this manual will ensure the maximum efficiency of this product for years to come.

1. Packaging and transportation

1.1 Packaging

Open the packaging and make sure that no part of the equipment has suffered any damage during the transportation. In case of damage to the fixture, contact your currier and your supplier immediately by telephone, fax or e-mail, and inform them you will formally notify them in writing through registered letter.

Packing list

Make sure the packaging contains:

1 ReLite Led Kit

1 Instruction manual

1.2 Transportation

The ReLite Led Kit must be transported exclusively in its original packaging.

2. General information

2.1 Important Safety information Fire prevention:



- 1. Never locate the fixture on any flammable surface.
- 2. Minimum distance from flammable materials: 0,5 m.
- 3. Minimum distance from the closet illuminable surface: 0,5 m.
- **4.** Replace any blown or damaged fuse only with those of identical values. Refer to the schematic diagram if there is any doubt.
- **5.** Connect the projector, where the **ReLite Led Kit** is installed, to mains power protected by a thermal magnetic circuit breaker.

Prevention from electric shock:



- 1. Presence of high voltage inside of the fixture. Insulate the fixture from mains supply before opening or performing any function which involves touching the inside of the fixture, including lamp replacement.
- 2. For the connection to the mains, adhere strictly to the guidelines outlined in this manual.

- **3.** The level of technology of **ReLite Led Kit** requires the use of specialised personnel for all service applications; refer all work to your authorised **Coemar** service centre.
- **4.** A good earth connection is essential for the proper functioning of the projector. Never connect the fixture if there is no earth connection.
- **5.** Mains cables must not come into contact with other cables.
- **6.** Do not operate the projector with wet hands or in an area where water is present.
- 7. The fixture must never be located in an exposed position, or in areas of extreme humidity.

Safety:



- 1. The external surfaces of the unit, at various points, may reach 60°C. Never handle the unit until at least 10 minutes have elapsed since the LED was turned off.
- 2. Never install the fixture in an enclosed area lacking sufficient air flow; the room temperature must not exceed 45°C.
- **3.** The projector contains electronic and electrical components which must under no circumstances be in contact with water, oil or any other liquid. Failure to do so will compromise the proper functioning of the projector.

2.2 Warranty conditions

- 1. The fixture is under warranty for 24 months from the purchase date against factory defections.
- **2.** Damage ought to unskillfulness, inappropriate use, or lack of suggested maintenance are excluded from the warranty.
- **3.** Warranty expires when the projector is opened by unauthorized personnel.
- **4.** Warranty doesn't include the replacement of the fixture.
- **5.** Serial number and model of the fixture are necessary to retrieve informations and assistance from the dealer.

2.3 EC norms

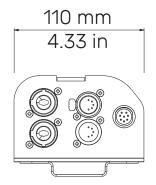
The projector meets all fundamental applicable EC requirements.

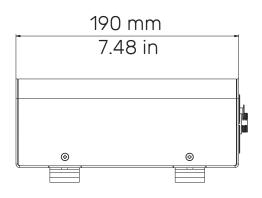
3. Product specifications

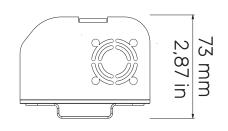
3.1 Technical characteristics

Power supply	80-264 V, auto-sensing, 50/60 Hz
Maximum current	Depending on the LED module and the size/model of the fixture
Power factor	$Cos\phi > 0.95$ (all versions)
Max power consumption	Depending on the fixture
Color temperature	CCT proportional control from 2.700 to 6.500 K
Color Rendering Index (CRI)	≥ 95 up to 97
Weight	Depending on the ReLite Led group
Operating Ta (°C/F) range	-20 to 45°C (-4 to 113° F), two thermal protection at 95°C/203°F (LED) and 85°/185°F (Board)
Connectors	G22 - GX9.5 - G38 - GY9.5 - GY16 - Custom
IP rating	20

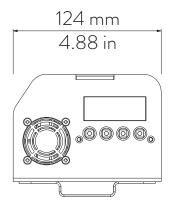
3.2 Dimensions

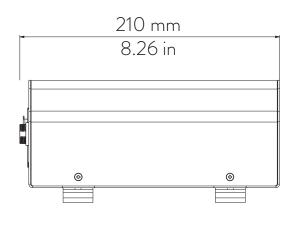


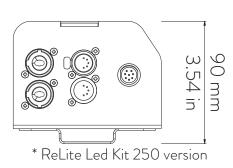




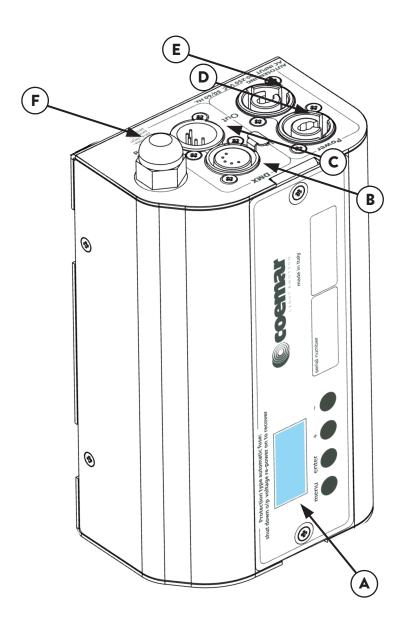
* ReLite Led Kit 150 version







3.3 Unit's main components



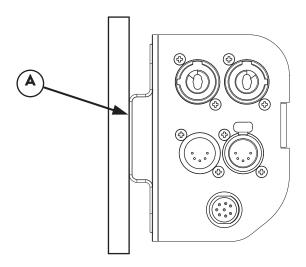
* ReLite Led Kit 150 version

	Components description
A	Display panel
В	DMX In
С	DMX Out
D	PowerCon In
E	PowerCon Out
F	Skintop

4. Installation

4.1 Mechanical installation

With **ReLite Led Kit** will be possible to give new life to your projector, simply replacing the old lamp with the **ReLite Led group**. The **ReLite Box** can be fixed to your projector's yoke through the fixing plates present on the box (**A**).



Warning!!

Always ensure that your support structure and fixing (bolts, clamps, etc...) are rated to support the weight of the fixture.

5. Powering up

5.1 Operating voltage and frequency

The unit may operates at voltages ranges from 80 to 264 V at a frequency of 50 or 60 Hz. It is not needed to effect any setup procedures: **ReLite Led Kit** will automatically adjust its operation to suit any frequency or voltage within this range.

5.2 Connection to mains power

Mains cable characteristics

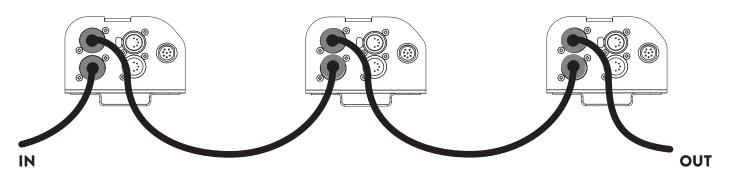
The mains cable provided is thermally resistant, complying to the most recent International standards. Note: in case of cable replacement, similar cable with comparable thermal resistant qualities must be used exclusively (cable 3 X 1,5 ø external 10 mm, rated 300/500V, tested to 2 KV, operating temperature -40°C + 180°C, Coemar cod. CV5311).

Connection to mains power

ReLite Led Kit is equipped with two power connectors, one as input and one as output.

5.3 Supply cable characteristics

The supply cable complies to the most recent safety norms.



Warning!!

The use of a thermal/magnetic circuit breaker is recommended. Strict adherence to regulatory norms is strongly recommended.

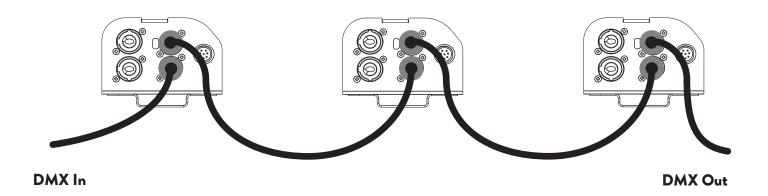
Ensure that the mains characteristics are within the recommended range for the use of **ReLite Led Kit**.

All connections should be carried out by a suitably qualified personnel.

6. Control signal connections

6.1 Control signal connection by XLR5 plugs

The digital control signal is transmitted to the projector via a two pole cable screened in according to the International standards for DMX 512 data transmission. The connection must be serial, using connectors XLR5 male and female located on the back of **ReLite Led Kit** labelled DMX512 IN e OUT.



Warning!

Make sure that screening and conductors are not in contact one another or with the metal housing of the connector.

Pin#1 and housing must never be connected to the power supply unit.

7. Turning the projector on

After having followed the preceding steps described, proceed with the power supply and turn on the projector connecting it to the mains power. The software version installed on the internal microprocessors will be shown on the display, suddenly it will show the current DMX addressing. If the address blinks, it means that the DMX signal has not been received. Check the connection cable and the mixer functioning.

7.1 DMX address of the unit

Each projector can use 6, 2 or 1 address channels for its complete operation and is controlled by a DMX 512 signal.

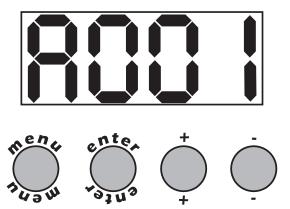
DMX addressing

When powered up initially, each projector will show "A001", which indicates that the fixture will start responding from the first DMX channel; **ReLite Led Kit** also uses 6 DMX channels, which means that it will respond to the commands from channel 1 to channel 6 of your DMX 512 controller. Accordingly a second unit should be addressed as A007, a third one as A013 and so on. The operation must be carried out on every **ReLite Led Kit** which has an address different from A001.

Altering the DMX address:

- **1.** Press the + or button until the display shows the required DMX address. The digits on the display will blink to indicate that the variation has not been registered.
- 2. Press the enter key to confirm your selection. The digits on the display panel will cease to blink and the projector will now respond to the new address.

Note: by holding the + or – button down the scrolling will be faster; thus allowing a faster selection



Warning!

If you alter the DMX address with no DMX signal connected, the digits on the display panel will continue to flash even after you have pressed ENTER button to confirm the address.

8. DMX chart

8.1. DMX Chart 6 channels

channel 1	function	type of control	effect	decimal	per	percentage		
	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0 - 255	0%	-	100%	
	dimmer fine	proportional	fine dimmer control 16 bit	0 - 255	0%	-	100%	
			3200 K	0 - 10	0%	-	4%	
			2700 K	11 - 16	4%	-	6%	
			2800 K	17 - 22	7%	-	9%	
			2900 K	23 - 28	9%	-	11%	
			3000 K	29 - 34	11%	_	13%	
			3100 K	35 - 40	14%	-	16%	
			3200 K	41 - 46	16%	_	18%	
			3300 K	47 - 52	18%	_	20%	
			3400 K	53 - 58	21%	_	23%	
			3500 K	59 - 64	23%	_	25%	
			3600 K	65 - 70	25%	T-	27%	
			3700 K	71 - 76	28%	_	30%	
			3800 K	77 - 82	30%	-	32%	
			3900 K	83 - 88	33%	-	35%	
			4000 K	89 - 94	35%	-	37%	
			4100 K	95 - 100	37%	-	39%	
			4200 K	101 - 106	40%	-	42%	
			4300 K	107 - 112	42%	-	44%	
			4400 K	113 - 118	44%	-	46%	
			4500 K	119 - 124	47%	-	49%	
3	white tone	step	4600 K	125 - 130	49%	-	51%	
			4700 K	131 - 136	51%	-	53%	
			4800 K	137 - 142	54%	-	56%	
			4900 K	143 - 148	56%	-	58%	
			5000 K	149 - 154	58%	-	60%	
			5100 K	155 - 160	61%	-	63%	
			5200 K	161 - 166	63%	-	65%	
			5300 K	167 - 172	65%	-	67%	
			5400 K	173 - 178	68%	_	70%	
			5500 K	179 - 184	70%	_	72%	
			5600 K	185 - 190	73%	_	75%	
			5700 K	191 - 196	75%	_	77%	
			5800 K	197 - 202		-	79%	
			5900 K	203 - 208	80%	-	82%	
			6000 K	209 - 214	82%	_	84%	
			6100 K	215 - 220	84%	_	86%	
			6200 K	221 - 226	87%	_	89%	
			6300 K	227 - 232	89%		91%	
			6400 K	233 - 238	91%	-	93%	
			6500 K	239 - 244	94%	_	96%	
			5600 K	245 - 255	96%	-	100%	

	fine whte tone	step no effect					0%			
		proportional	proportional from the previous step to temperature selected					-	49%	
4		step	no effect				50%	-	509	
		proportional	from temperature selected the following step	129	-	254	51%	-	99	
		step	no effect	2	25	5	1	00	%	
		step	no effect	0	-	9	0%	-	4	
		proportional	variable speed strobing effect, from slow to fast	10	-	57	4%	-	22	
		step	stop strobe	58	-	59	23%	-	23	
		proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	60	-	108	24%	-	42	
		step	stop strobe	109	-	110	43%	-	43	
5	strobe	proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast)	111	-	159	44%	_	62	
		step	stop strobe	160	-	161	63%	-	63	
		proportional	random strobe effect with variable speed from slow to fast	162	-	207	64%	-	8	
		step	stop strobe	208	-	209	82%	-	8	
		proportional	random strobe effect with variable speed from slow to fast	210	-	255	82%	-	10	
			no effect	0	-	9	0%	-	4	
		step	600 Hz	10	-	84	4%	-	3.	
			fan at low-noise speed	85	-	96	33%	-	3	
			fan at auto-silent speed	97	-	108	38%	-	4	
		proportional	fan speed control	109	-	120	43%	-	4	
			no effect	121	-	133	47%	-	5	
			enables the automatic display blackout	134	-	185	53%	-	7:	
			disables the automatic display blackout		-	199	73%	-	7	
6 s	pecial functions		LED control frequency tuning 1.000 Hz		-	205	78%	-	8	
	•		LED control frequency tuning 3.000 Hz		-	211	81%	-	8	
			LED control frequency tuning 6.000 Hz		-	217	83%	-	8	
		step	LED control frequency tuning 8.000 Hz		L	223	85%	-	8	
			LED control frequency tuning 0.000 Hz		-	229	88%	-	91	
			LED control frequency tuning 10.000 Hz		t	235	90%	+	9:	
		-		230	F			Ŧ		
			LED control frequency tuning 14.000 Hz	236	-	241	93%	-	9!	
			LED control frequency tuning 16.000 Hz	242		247	95%	-	9	
			LED control frequency tuning 19.000 Hz	248	-	255	97%	-	10	

Note: the one channel function mode can be selected through the DMX function menu. The color of the light will be the last selected when changing mode

8.2. DMX Chart 2, 1 channels

cha	nnel			-							
2 1		function	type of control	effect	decimal			percentage			
1	1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0	-	255	0%	-	100%	
				3200 K	0	-	10	0%	T-	4%	
				2700 K	11	-	16	4%	-	6%	
				2800 K	17	-	22	7%	-	9%	
				2900 K	23	-	28	9%	-	11%	
				3000 K	29	-	34	11%	-	13%	
				3100 K	35	-	40	14%	-	16%	
				3200 K	41	-	46	16%	-	18%	
				3300 K	47	-	52	18%	-	20%	
				3400 K	53	-	58	21%	-	23%	
				3500 K	59	-	64	23%	-	25%	
				3600 K	65	-	70	25%	-	27%	
				3700 K	71	-	76	28%	-	30%	
				3800 K	77	-	82	30%	-	32%	
				3900 K	83	-	88	33%	-	35%	
				4000 K	89	-	94	35%	-	37%	
				4100 K	95	-	100	37%	-	39%	
				4200 K	101	-	106	40%	-	42%	
				4300 K	107	-	112	42%	-	44%	
				4400 K	113	-	118	44%	-	46%	
				4500 K	119	-	124	47%	-	49%	
2	-	white tone	step	4600 K	125	-	130	49%	-	51%	
				4700 K	131	-	136	51%	-	53%	
				4800 K	137	-	142	54%	-	56%	
				4900 K	143	-	148	56%	-	58%	
				5000 K	149	-	154	58%	-	60%	
				5100 K	155	-	160	61%	-	63%	
				5200 K	161	-	166	63%	-	65%	
				5300 K	167	-	172	65%	-	67%	
				5400 K	173	-	178	68%	-	70%	
				5500 K	179	-	184	70%	-	72%	
				5600 K	185	-	190	73%	-	75%	
				5700 K	191	-	196	75%	-	77%	
				5800 K	197	-	202	77%	-	79%	
				5900 K	203	-	208	80%	-	82%	
				6000 K	209	_	214	82%	-	84%	
				6100 K	215	-	220	84%	-	86%	
				6200 K	221	-	226	87%	-	89%	
				6300 K	227	-	232	89%	-	91%	
				6400 K	233	_	238	91%	-	93%	
				6500 K	239	_	244	94%	-	96%	
				5600 K	245	-	255	96%	-	100%	

9. Display panel functions

9.1 Quick guide to menu

To access the functions menus just press the MENU button. Then press + or – buttons to scroll the pages and press the ENTER button to access to any other function.

By suitably using all the functions of **ReLite Led Kit**, which can be activated through its display panel, it is possible to change some of the parameters and to add some functions. Changing the preset settings made by **Coemar** can vary the functions of the projector so that it will respond differently to the controller; therefore carefully read about the functions described here before carrying out any possible selection.

9.2 Rapid count

Through the display panel of **ReLite Led Kit** it is possible to quickly change the various numbers displayed for the different functions in the following 3 manners:

- **1.** Pressing the + or buttons will cause the count to be quicker.
- 2. Pressing first + and then and then holding them down simultaneously will cause the numbers to jump to the highest value.
- **3.** Pressing first and then + and then holding them down simultaneously will cause the number to jump to the lowest value.

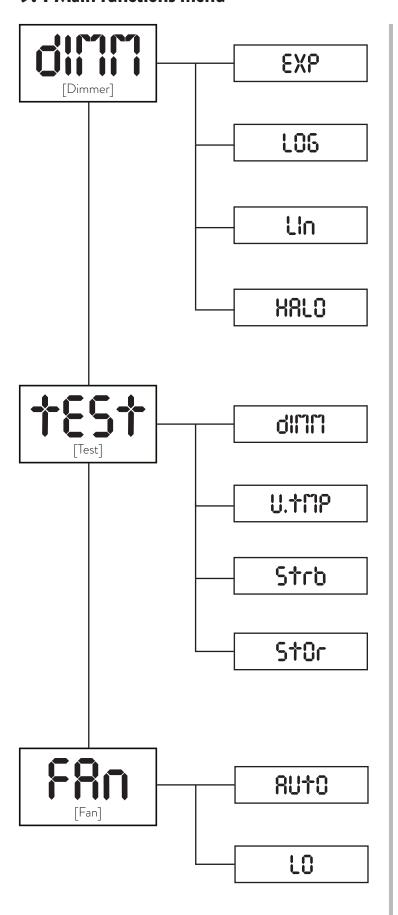
9.3 Quick CCT menu



CCT:

By pressing enter button, it will be possible to chose among three different CCT ($2.800\,\mathrm{K}$, $4.200\,\mathrm{K}$ and $5.600\,\mathrm{K}$). Once the CCT will be chosen you can select the percentage of the light output.

9.4 Main functions menu



Dimmer:

It allows the selection of different dimmer curves: exponential (default), logarithmic, linear and halogen;

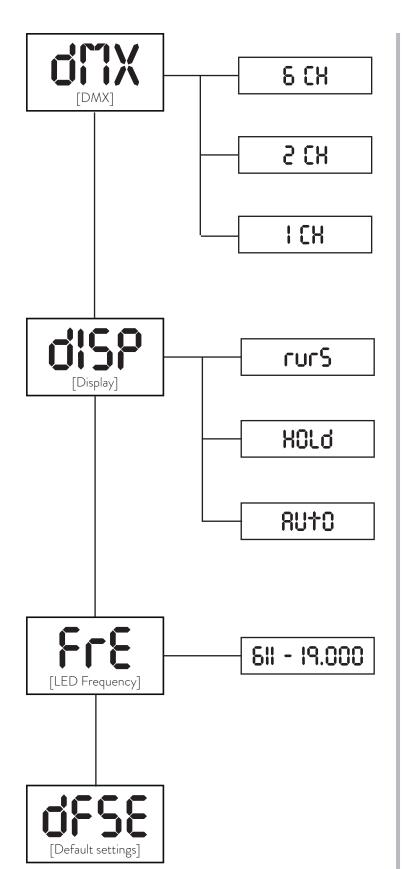
Test:

Allows to manually set the DMX channels controlled by a DMX console:

- **Dimmer:** sets the luminous intensity;
- White temperature: allows to change manually the white temperature;
- **Strobe:** manually sets the strobe DMX channel:
- **Store:** stores the modifications that will be set at the next times the fixture will be turned on.

Fan Speed:

- Auto: balance the fan speed to meet the maxim silence without compromising the light performance;
- **Low noise:** sets the minimum fan speed to ensure a silent performance at the expense of light output (the total power will decrease to 160 W).



DMX channels:

Allows to choose the number of channels with which operate in DMX mode.

Display functions:

Changes the display settings:

- **Reverse:** rotates the display of 180°;
- Hold Sets or disables the automatic display lock function that occurs after 10 seconds of inactivity;
- **Auto:** Sets or disables the automatic display turn off function, which would occur after 10 seconds of inactivity;

Note: The AUTO and HOLD function become active only when the DMX address selection is displayed (A001). The effect of AUTO and HOLD trigger after 10 seconds of keyboard inactivity. To turn on the display it is enough to push a button, to unlock the keyboard it is necessary to hold any button down for a few seconds.

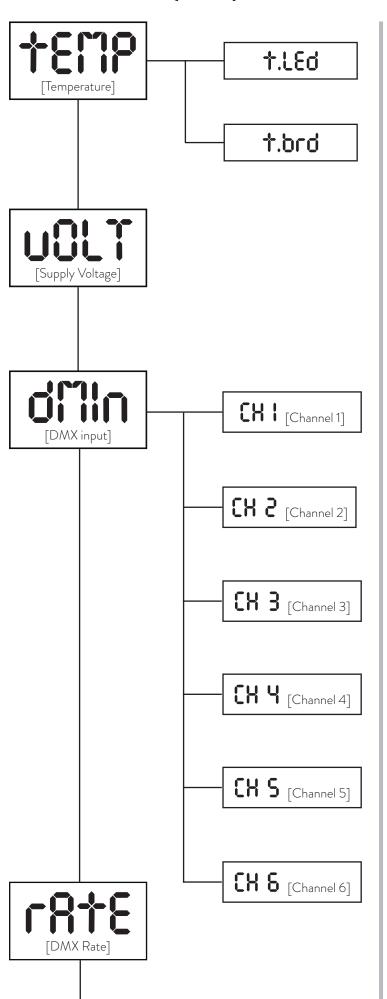
LED Frequency:

It allows to set the flickering frequency from 611 to 19.000 Hz besides the default value. (DMX signals goes ahead this setting).

Default Settings:

Allows to restore the factory default of the fixture, with exception of DMX address and LED alignment.

9.5 Measures menu (MEAS)



Temperature:

Shows the current temperature values:

- **LED:** shows the LED module temperature;
- Board: shows the electronic board temperature.

Volt:

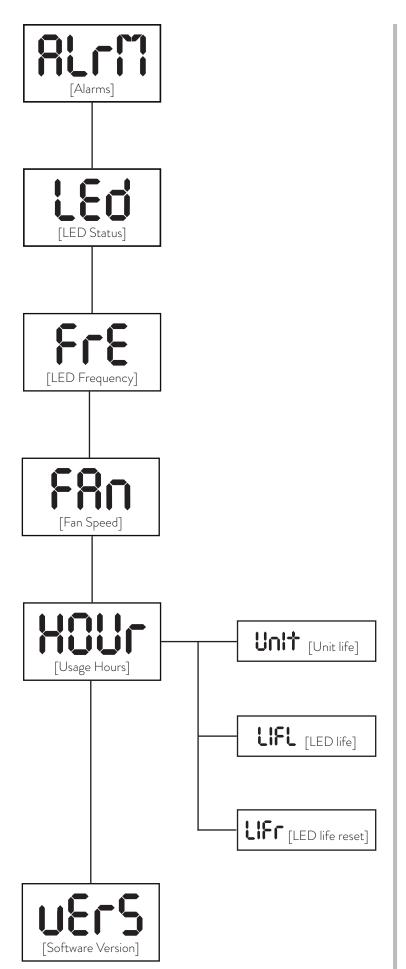
Shows the power supply voltage.

DMX Input:

Shows the value of the DMX channels received by the fixture on every channel that the fixture occupies on the line.

Rate:

Shows the refresh rate of the DMX signal sent by the console.



Alarm:

This menu shows the alarm statuses if there is any.

LED:

Shows the percentage value of the LED status.

Frequency:

Shows the operating frequency of the LED (611 Hz as default).

Fan speed:

Shows the voltage in which the fan is operating.

Usage hours:

Shows the hour counter of the fixture:

- Unit: shows the overall hours of life of the fixture;
- **LED life:** shows the overall LED module life:
- **LED life reset:** shows the overall LED module life currently installed.

Note: this items can be reset in case of LED module replacement;

Software version:

Shows the software version currently installed in the fixture.

9.6 Electronic alignment of the leds

The display panel of **ReLite Led Kit** allows the electronic alignment of the LEDs, this procedure is performed by **Coemar** at the time of testing, this procedure may be useful for special effects or in case of replacement of internal components (PCBs, LEDs, etc...).

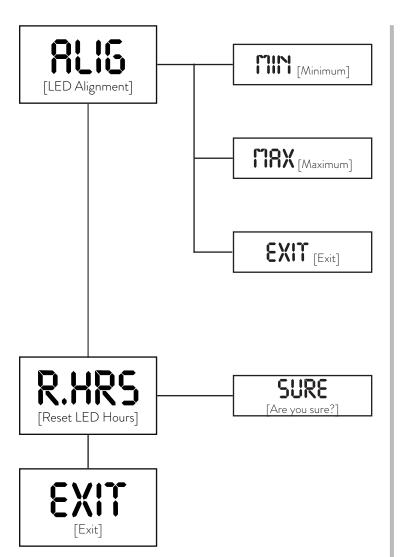
Altering the settings made by **Coemar** may radically alter the operation of the projector's functions. Carefully read the following prior to attempting any changes.

Warning!!

This chapter should be considered for the exclusive use of technicians and qualified personnel.

Warning!!

This menu can only accessed in the **DF.SE.** [Default Settings] menu by pressing at the same time **ENTER** and **MENU** buttons. This menu shall be accessed only by authorized technicians.



LED alignment:

This item allows to align the minimum and the maximum level of intensity of the LEDs:

- Minimum: raise or lowers the minimum intensity to level the dimming between the fixtures;
- Maximum: aligns the maximum output level between each fixture;
- Exit: exits the menu and stores the changes;

Reset hours:

Allows to erase the hours of operation of the LED module in case of replacement;

9.7 Special functions of the fixture Storing the DMX signal

To use the fixture without an active DMX console it is possible to store the DMX settings in two ways:

- · Through the **TEST** menu;
- Disconnecting the DMX signal when the fixture is on. When the signal is unconnected the fixtures stores the signal;

Automatic fan standby

To decrease the noise and the power consumption the cooling fan turns off after 10 minutes of fixture inactivity.

9.8 Error messages

If a malfunction occurs, **ReLite Led Kit** has a self-diagnostic system that will show the error message on the display. The following table will explain in detail the most common errors. If, despite of suggested intervention, the problem persists, call the **Coemar** Service Center.

Error code	Description
No Alarm	No alarm The projector self-diagnostic routine didn't find any issue.
DTER [Data Error]	Data error Initial data loading has failed the projector loaded the default data settings: restart the fixture again, and if the error persists contact the Coemar assistance center.
RDER [Address Error]	Address error The projector does not receive all channels of DMX needs to function properly. Check the DMX address indicated on the display and the number of channels generated by the mixer control. We recall in this connection that some controllers do not generate all the 512 channels.
LEd [LED Error]	LED error Auto diagnostic routine found that the LED module may damaged, contact Coemar assistance for the module replacement. IMPORTANT: To ensure the sensor is giving correct readings, set the LED to the maximum light output level.

10. Spare parts

All **ReLite Led Kit** 's spare parts are available from your Coemar service centers. Specifying in detail the projector model and the replacement part requested, will help the service center to serve you in the best way.

11. Maintenance

11.1 Periodic cleaning

Cleaning of the unit

Use a soft brush or a common vacuum cleaner or a source of compressed air for removing dust. For the cleaning of the housing use a soft cloth and a non-aggressive cleaner. Check that the fan and heat exchanger must be perfectly clean.

11.2 Periodic controls

Mechanical components

Check the correct working of the mechanical parts and, if needed, replace them. Make sure the projector is not mechanically damaged. If necessary, replace the worn parts.

12. F.A.Q. and answers

The following list shows common issues that may be simply solved. If issues persist, the unit must be repaired by qualified personnel or just contact your **Coemar** service near you.

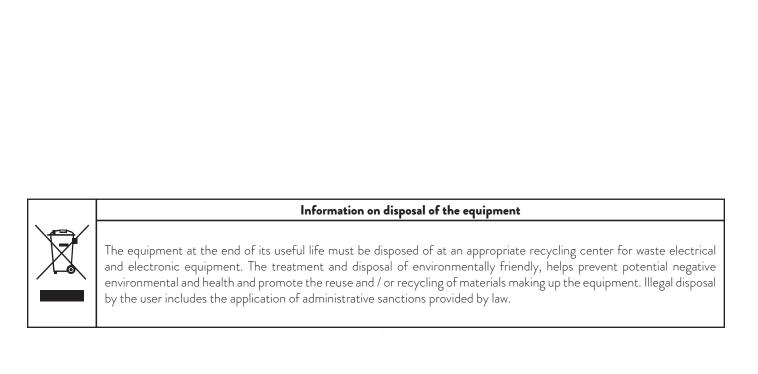
Question	Possible solution
ReLite Led Kit does not emit light	 Projector not powered: Make sure the power cord is plugged in or test the input voltage in the projector in which ReLite Led Kit is installed; Make sure the ReLite Led Kit is well inserted into the socket.

User notes

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User notes

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Via Carpenedolo 90 46043 Castiglione delle Stiviere, Mantova, Italia tel. +39 0376/1514412 - fax +39 0376/1514380 info@coemar.com

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