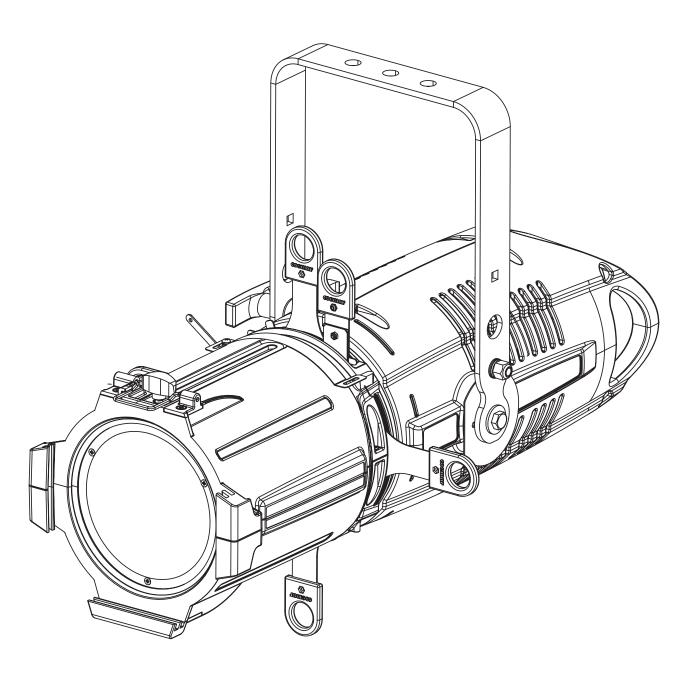
VariWhite Series 2





VariWhite Series 2

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 **LEDko VariWhite Series 2**: 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.

User Manual version 3.3

Edition December 2019

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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 email, and inform them you will formally notify them in writing through registered letter.

Packing list

Ensure the packaging contains:

- 1 LEDko VariWhite Series 2
- 1 Instruction manual
- 1 Main power plugs

1.2 Transportation

The **LEDko VariWhite Series 2** should be transported in either its original packaging or in an appropriate flight case.

2. General information

2.1 Safety informations

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 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 projector 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 **LEDko VariWhite Series 2** 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 projector must always be installed with bolts, clamps, or other fixing devices which are suitably rated to support the weight of the projector.
- 2. Always use a secondary safety fixing device with chain or steel wire of a suitable rating to sustain the weight of the unit in case of failure of the principal fixing point.
- **3.** 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.
- **4.** Never install the fixture in an enclosed area lacking sufficient air flow; the room temperature must not exceed 35°C.
- **5.** 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 36 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

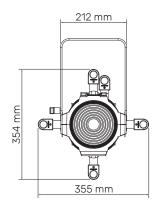
The projector meets all fundamental applicable EC requirements.

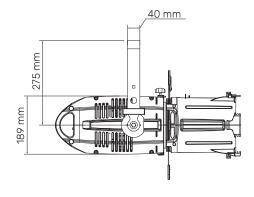
3. Product specifications

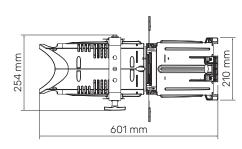
3.1 Technical characteristics

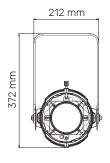
Power supply	90-264 V, auto-sensing, 50/60 Hz
Maximum current	1 A at 230 V - 2.03 A at 115 V
Power factor	$Cos\phi = 0.9$
Max power consumption	210 W
Color temperature	All whites from 2.700 to 6.500 K
Weight (without optic)	6 Kg - 13.2 lbs
Minimum ambient temperature	-20°C / -4°F
Maximum ambient temperature	+35°C / +95°F
IP rating	20

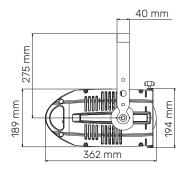
3.2 Dimensions

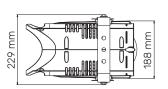


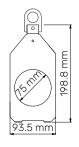


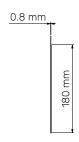




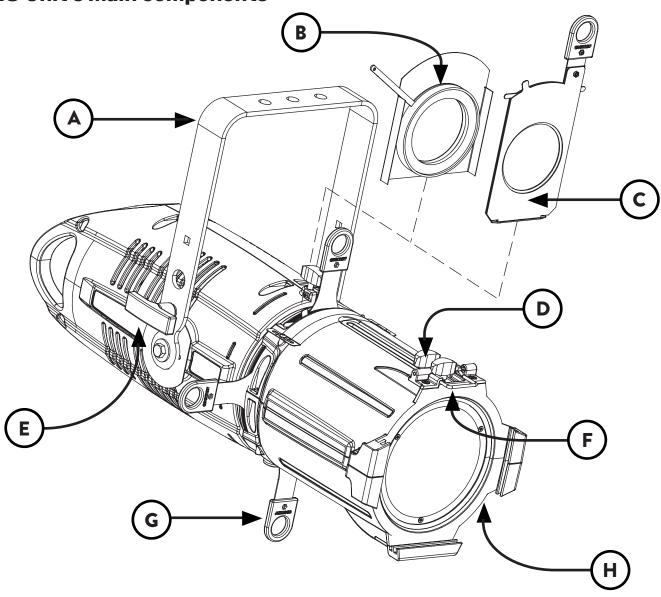






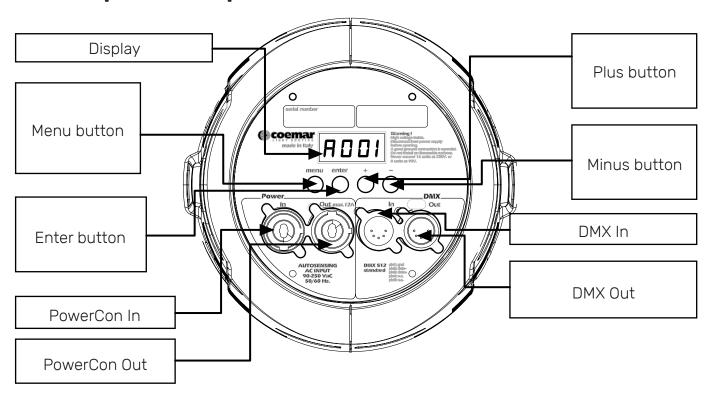


3.3 Unit's main components



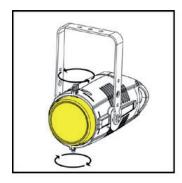
	Components description
A	Adjustable yoke
В	Iris (optional)
С	Gobo holder (optional)
D	Lens adjusting handles
E	Yoke locking handle
F	Gel frame locking spring
G	Profile blade
н	Interchangeable optic

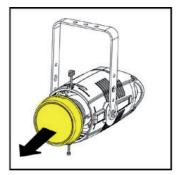
3.4 Back panel description

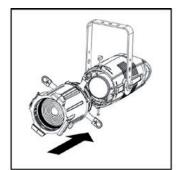


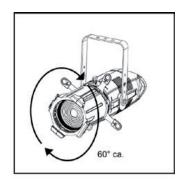
4. Installation

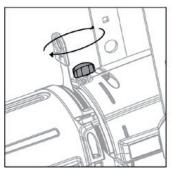
4.1 Optical installation

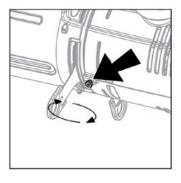


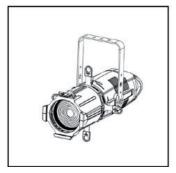










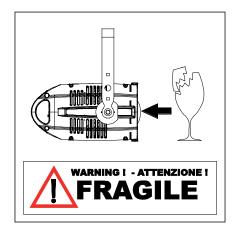


Remove the frontal cap by loosening the upper and lower screws enough to free the cap itself, set the optic's flange tilted about 60°. Insert the optic's flange into the body's receptacle and turn the optic 60° until it is firmly assembled to the projector body, free to rotate but not free to detach itself from the body. Ensure the optic to the body by tightening the two screws previously loosened.

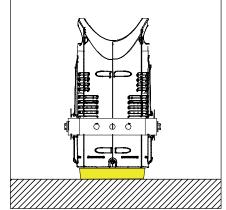
Warning!!

When the protective cap is removed, never lean the fixture facing down.

The front lens can be seriously damaged.

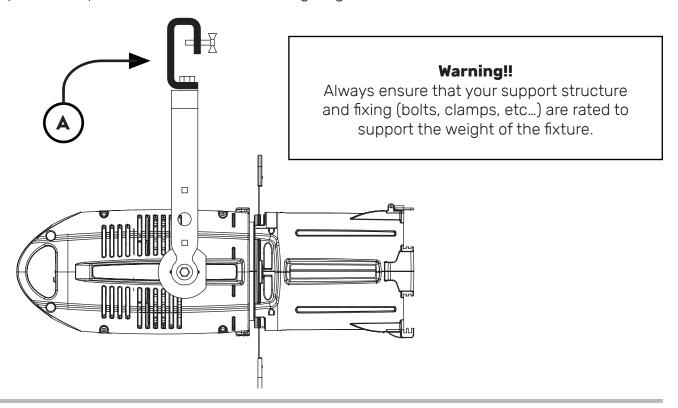






4.2 Mechanical installation

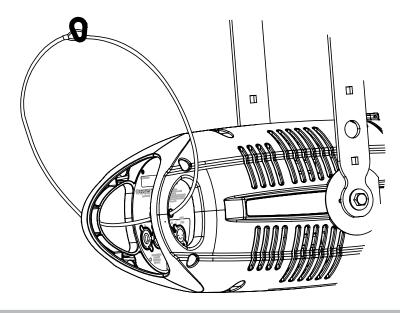
LEDko VariWhite Series 2 may be hung from an appropriate structure in any position or on tripode. If hanging the fixture from a lighting truss or similar, we recommend the use of an appropriate clamp "A", as shown in the following diagram.



4.3 Safety chain

When hanging **LEDko VariWhite Series 2** it is recommended to use a safety chain, as required by current legislation. The safety chain must pass through the handles of the unit and then attached to the structure.

If using steel cables and chains not **Coemar**'s production, make sure they are suitable to support the weight of the unit according to normative UL/ETL (required: the weight of 6 complete devices for at least one hour).



4.4 Adjusting unit's tilt

In order to adjust the tilt of the unit simply loose the side handle adjust the tilt and lock the yoke by tightening the handle again.

5. Powering up

5.1 Operating voltage and frequency

The unit may operates at voltages ranges from 90 to 264 V at a frequency of 50 or 60 Hz. It is not needed to effect any setup procedures: **LEDko VariWhite Series 2** 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.

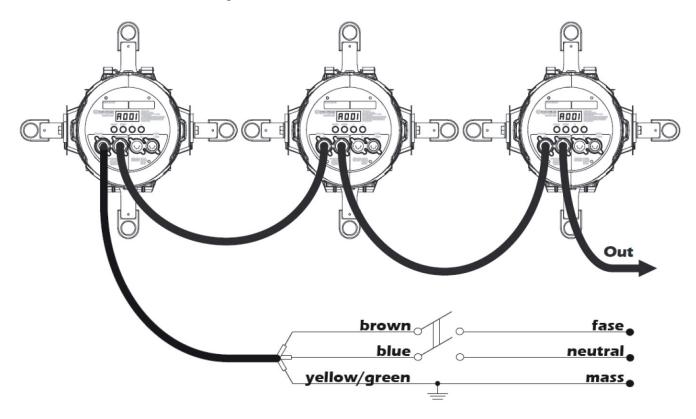
Note: in case of cable replacement, similar cable with comparable thermal resistant qualities must be used exclusively (cable 3 X 1,5 ø external 10 mm, rated 300/500V, tested to 2 KV, operating temperature -40°C + 180°C, Coemar cod. CV5311).

Connection to mains power

LEDko VariWhite Series 2 is equipped with two power connectors, one as input and one as output, which can be used to feed up to 8 (at 230 V) or 4 (at 115 V) fixtures.

The max absorption of **LEDko VariWhite Series 2** is reported in the following table:

- 230 V 1A constant during normal exercise.
- 115 V 2.03 A constant during normal exercise.



Warning!!

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

LEDko VariWhite Series 2 should not be powered through a dimmer as this may damage the internal switching power supply.

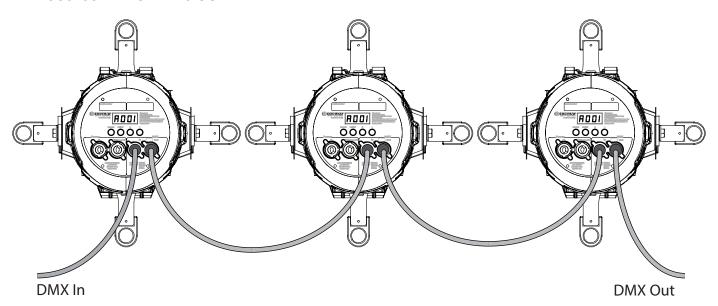
Prior to connecting the device to mains power, ensure that the mains characteristics are within the recommended range for the use of **LEDko VariWhite Series 2**.

All cabling and 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 **LEDko VariWhite Series** 2 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.

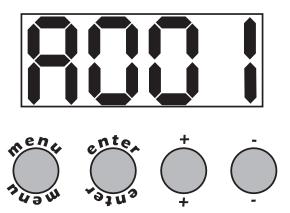
DMX addressing

When powered up initially, each projector will show "A001", which indicates that the fixture will start responding from the first DMX channel; **LEDko VariWhite Series 2** 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 **LEDko VariWhite Series 2** 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

hannel	function master dimmer	type of effect		decimal	percentage		
1		proportional	adjust luminous output intensity from 0 to 100%	0 - 255	255 0%		100%
2	dimmer fine	proportional	fine dimmer control 16 bit	0 - 255	0%	<u> </u>	100%
			3200 K	0 - 10	0%	Ī-	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%
_	white temperature		4500 K	119 - 124	47%	-	49%
3		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 - 154 155 - 160	58% 61%	+	60%
			5100 K 5200 K	155 - 160 161 - 166	63%	+	63%
			5300 K	167 - 172	65%	+	65% 67%
			5400 K	173 - 178	68%	F	70%
			5500 K	179 - 184	70%	t	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%

		step no effect		0			0%		
	white	proportional	fine white temperature control (from temperature selected to the previous step)	1	-	126	1%	-	49%
4	temperature	step	no effect	127	-	128	50%	-	509
	fine	proportional	fine white temperature control (from temperature selected to the following step)			254	51%	-	999
		step	no effect	255		100%			
		step	no effect	0	-	9	0%	-	49
		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%	-	82
		proportional	random strobe effect with variable speed from slow to fast	210	-	255	82%	-	10
			park, no effect	0	-	9	0%	-	4
		2422	600 Hz	10	-	84	4%	-	33
		step	fan at low-noise speed	85	-	96	33%	-	38
			fan at auto-silent speed	97	-	108	38%	-	4:
		proportional	fan speed control from minimum to maximum	109	-	120	43%	-	4
			fan at maximum speed	121	-	133	47%	-	5:
			enables the automatic display blackout	134	-	185	53%	-	73
			disables the automatic display blackout	186	-	199	73%	-	78
6	special functions		LED control frequency tuning 1.000 Hz	200	-	205	78%	-	80
	lulictions		LED control frequency tuning 3.000 Hz	206	-	211	81%	-	8
			LED control frequency tuning 6.000 Hz	212	-	217	83%	-	8
		step	LED control frequency tuning 8.000 Hz	218	-	223	85%	-	8
			LED control frequency tuning 10.000 Hz	224	-	229	88%	-	90
			LED control frequency tuning 12.000 Hz	230	-	235	90%	-	92
			LED control frequency tuning 14.000 Hz	236		241	93%	-	95
			LED control frequency tuning 16.000 Hz	242	-	247	95%	-	97
			LED control frequency tuning 19.000 Hz	248			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

channel		function	type of control	effect	decimal	percentage
		master dimmer	proportional	adjust luminous output intensity from 0 to 100%	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% - 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 temperature	step	4600 K	125 - 130	49% - 51%
		temperature		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	2 77% - 79%
				5900 K	203 - 208	8 80% - 82%
				6000 K	209 - 214	82% - 84%
				6100 K	215 - 220	84% - 86%
				6200 K	221 - 226	87% - 89%
				6300 K	227 - 232	
				6400 K	233 - 238	91% - 93%
				6500 K	239 - 244	
				5600 K	245 - 255	

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.

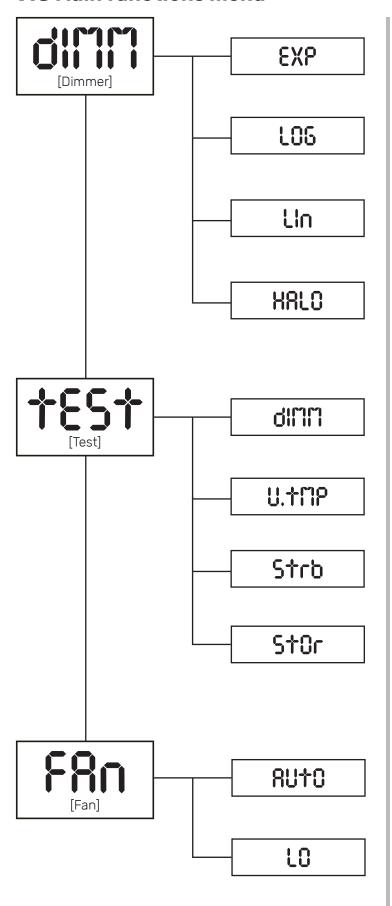
By suitably using all the functions of **LEDko VariWhite Series 2**, which can be activated through its display panel, it is possible to change some of the parameters and to add some functions. Changing the preset settings made by **Coemar** can vary the functions of the projector so that it will respond 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 **LEDko VariWhite Series 2** 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 guicker.
- 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 Main functions menu



Dimmer:

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

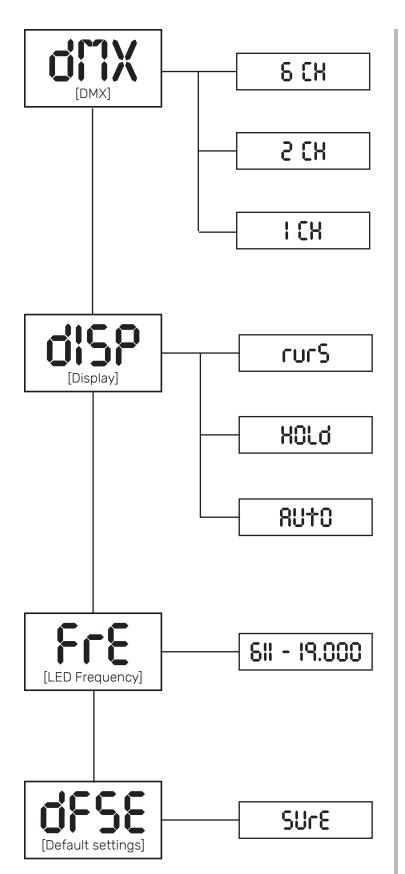
Test:

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.

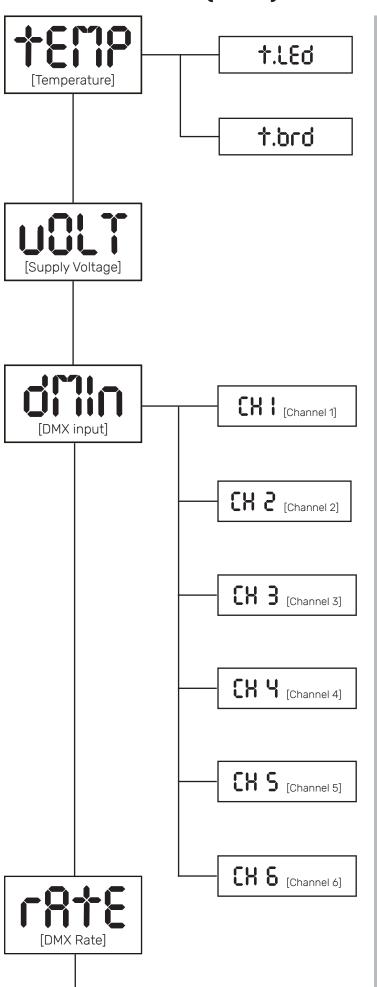
LED Frequency:

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.

9.4 Measures menu (MEAS)



Temperature:

Shows the current temperature values:

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

Volt:

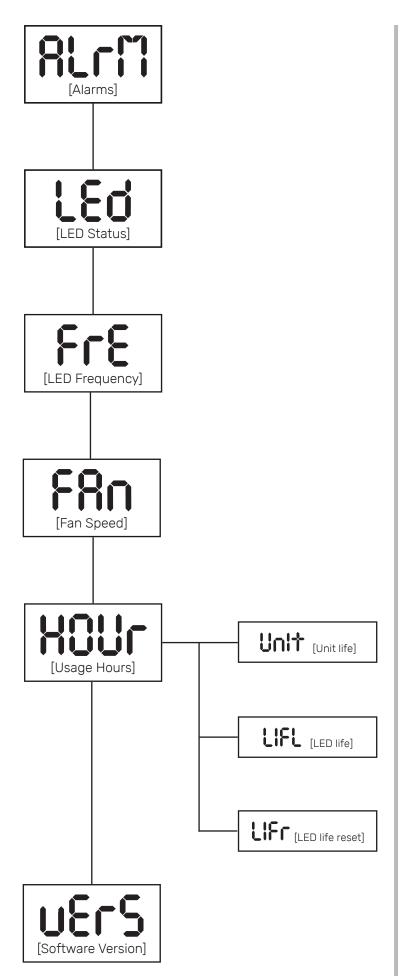
Shows the power supply voltage.

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.

9.5 Electronic alignment of the leds

The display panel of **LEDko VariWhite Series 2** 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...).

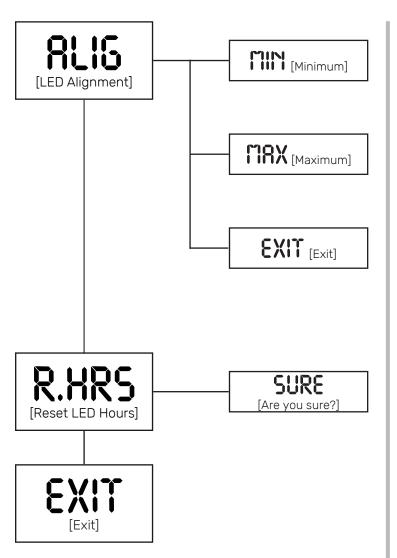
Altering the settings made by **Coemar** may radically alter the operation of the projector's functions. Carefully read the following prior to attempting any changes.

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;

9.6 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.

9.7 Error messages

If a malfunction occurs, **LEDko VariWhite Series 2** 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.		
ADER [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. Accessories and spare parts

LEDko VariWhite Series 2 is a very versatile fixture, optional accessories for its customization are available under request:

Accessory name	Code
Front barrel for lens tube with burnished blades	BC10011A200
Profile 5°, lens tube	BC10011A041
Profile 10°, lens tube	BC10011A042
Profile 14°, lens tube	BC10011A023
Profile 19°, lens tube	BC10011A012
Profile 26°, lens tube	BC10011A013
Profile 36°, lens tube	BC10011A015
Profile 50°, lens tube	BC10011A016
Profile 70°, lens tube	BC10011A024
Profile 90°, lens tube	BC10011A025
Profile Zoom 15°- 35°	BC10011A017
Profile Zoom 25°- 50°	BC10011A019
Profile Zoom 28°- 40°	BC10011A003
Soft Profile Fresnel Zoom 14°- 40°	BC10011A002
Soft Profile PC Zoom 11°- 38°	BC10011A001
4 leaf barndoor	AC04202
Gobo frame holder	BC10011A006
Iris	BC10011A010
Donut (190.5 mm)	BC10011A028
Half Top Hat (190.5 mm)	BC10011A027
Top Hat (190.5 mm)	BC10011A029
Color Frame Holder (190 mm)	BC10011A040
Donut (185 mm)	BC10011A036
Half Top Hat (185 mm)	BC10011A035
Top Hat (185 mm)	BC10011A037
Color Frame Holder (185 mm)	AC04204

Donut (159 mm)	BC10011A032
Half Top Hat (159 mm)	BC10011A031
Top Hat (159 mm)	BC10011A033
Colour Frame Holder (159 mm)	BC10011A021
(Gobo Slot) Glass template holder (93.6 mm)	BC10011A030
Hook clamp, 48-51 mm, max. load 20 Kg.	BC10011A047
Light clamp silver, 48-51 mm, max. load 75 Kg.	BC10011A045
Light clamp black, 48-51 mm, max. load 75 Kg.	BC10011A046
Clamp silver, flat 13-30 mm/ø 15-50 mm, max. load 20 Kg.	BC10011A043
Clamp black, flat 13-30 mm/ø 15-50 mm, max. load 20 Kg.	BC10011A044

All the components of **LEDko VariWhite Series 2** are available as spare parts from your **Coemar** dealer or Service. Accurate description of the fixture, model number and type will assist us in providing for your requirements in an efficient and effective manner.

11. Maintenance

11.1 Firmware update

The firmware of **LEDko VariWhite Series 2** can be updates through the RDM protocol (ANSI E1.20). Contact Coemar assistance to receive the software and the device updater.

11.2 Periodic cleaning

Lenses

Even a thin layer of dust can reduce the luminous output and alter the consistency of the beam. Regularly clean all filters and lenses using a soft cotton cloth, dampened with a special lens cleaning solution.

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 internal fans and heat exchanger must be perfectly clean.

11.3 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.

Electrical components

Check all electrical connections, in particular for correct grounding and correct attachment of all extractable connectors. Press the connectors if necessary and reposition as before.

11.4 Fuses

LEDko VariWhite Series 2 has an automatic fuse that in most cases does not need to be replaced.

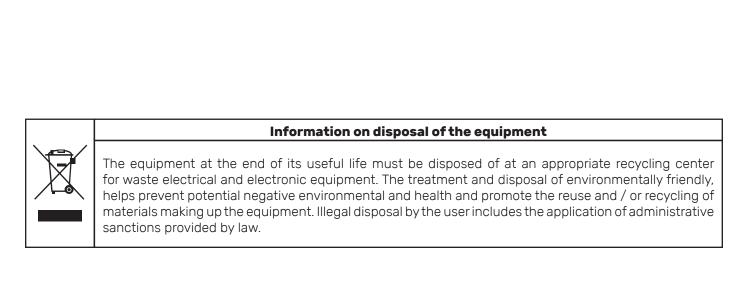
12. F.A.Q. and answers

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

Question	Possible solution
LEDko VariWhite Series 2 does not emit light	 Projector not powered on: Make sure the power cord is plugged in or test the input voltage; Wrong DMX address: Check the DMX Address setting and the output signal of the controller;
LEDko VariWhite Series 2 is not responding to DMX signal	 DMX signal may not reach LEDko VariWhite Series 2: Inspect the cable connection, correct poor connections or inefficient repair or replace damaged cables; Check DMX address of the unit;

User notes

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